



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72070

Entry Year 2026

Acreage: 2,135

County: Iosco

Management Area: High Sand Plains

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**Stand Examiner:** Garret Price

### Legal Description:

T 23N R 08E Section 2 and T 24N R 08E Sections 11, 14, 23, 26, & 35

### Identified Planning Goals:

To maintain species and structural diversity while managing for health, productivity, and sustainability throughout the compartment. To provide multiple use opportunities and incorporate any visual management needed to optimize these uses.

### Soil and topography:

Soils consist of Grayling/Graycolm sand in the uplands and Colonville fine sandy loam in the flood plain of the AuSable River. The terrain is level except where influenced by the AuSable River, Coppler Creek, and 7 Mile Swamp. The terrain in these areas is quite hilly.

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

This compartment consists of solid state ownership bisected by the AuSable River and Coppler Creek. The compartment is located directly west of 7 Mile Swamp, a special management area (compartment 73). Foote Dam, on the AuSable River, is located just to the west of the compartment. Foote Dam is owned and operated by Consumers Energy Company.

### Unique Natural Features:

Eastern Massasauga Rattlesnake (*Sistrurus catenatus*), Secretive Locust (*Appalachia arcana*)

### Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration. Archaeology comments from previous year of entry indicate sites or potential sites adjacent to the AuSable River.

### Special Management Designations or Considerations:

This stand is adjacent to the 7 Mile Swamp management area.

### Watershed and Fisheries Considerations:

The AuSable River, a designated natural river, and Coppler Creek are in the compartment. Foote Dam is just to the west of the compartment.

### Wildlife Habitat Considerations:

This compartment contains a large amount of swamp edge habitat and transitions from upland to lowland. This transition habitat is highly valuable to wildlife species.

### Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The closest known active sand/gravel pit is approximately three miles north. Potential for sand & gravel development within the compartment appears to be limited. There might be potential for some small borrow pits for internal department use. Some sparse Antrim Shale gas wells have been drilled in the region, including one just west of the compartment, but the compartment is well outside the main Antrim play, and the wells in the area had scant production, if any. The Antrim play is generally in decline, no new Antrim wells are being drilled, and there has been an increasing trend toward plugging. At current gas prices, drilling of new Antrim wells is not economical. No recent well permits have been issued in the area, and there is no current leasing activity involving State-owned mineral rights. Potential for hydrocarbons from known producing formations beneath the compartment is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

### Vehicle Access:

County roads located in the compartment are Rea Road, River Road, and Bissonette Road. The remainder of the compartment has difficult access due to rough overgrown trails and sandy, hilly terrain.

### **Survey Needs:**

If stand 56 is treated; The SW of stand 56 needs to have the corner placed for the SW corner of the SE1/4 of SE1/4 of Section 26. There is a potential trespass, and a recent timber sale to the west on private.

### **Recreational Facilities and Opportunities:**

The compartment contains the Old State House trail head/parking lot along with portion of designated snowmobile trail #96, the Old State House ORV Trail and ORV Route. "Highbanks", a parking lot and scenic overlook, provides fishing access from River Road to the south side of the Ausable River. The compartment also contains a Parks and Recreation Bureau managed access site on the AuSable, located on leased Consumers Energy land located in Section 26. The dock for the River Queen paddle boat is located on River Road just west of the compartment.

### **Fire Protection:**

Access between Bissonette Road to the south and Indian Road to the north is difficult. The trails are rough, narrow, and sandy. The powerline has numerous areas with loose sand and terrain that makes access with fire apparatus difficult. The east side of the compartment next to compartment 73 (7 Mile Swamp) is hilly with steep slopes down to the swamp.

### **Additional Compartment Information:**

Bissonette road between Section 23 and 26 (Stand 51) is not on the section line for approximately 3/4 mile. The private property south of Bissonette road is crossing the State land between their property and Bissonette Road with driveways for access to residences. Formal requests have been levied to purchase easements across the State land to gain legal ingress-egress. This parcel was recommended for disposal for 2 consecutive YOEs. No action has been taken up to this time. The best course of action would be to dispose of the State land south of Bissonette Road at public auction. Due to; proximity of homes, illegal expansion of yards, and the multiple driveways, and residences here, commercial timber harvest will be challenging for operability and PR.

### **The following reports from the Inventory are attached:**

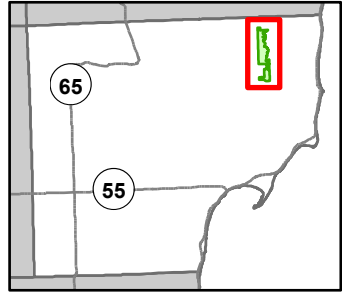
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

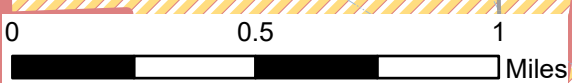
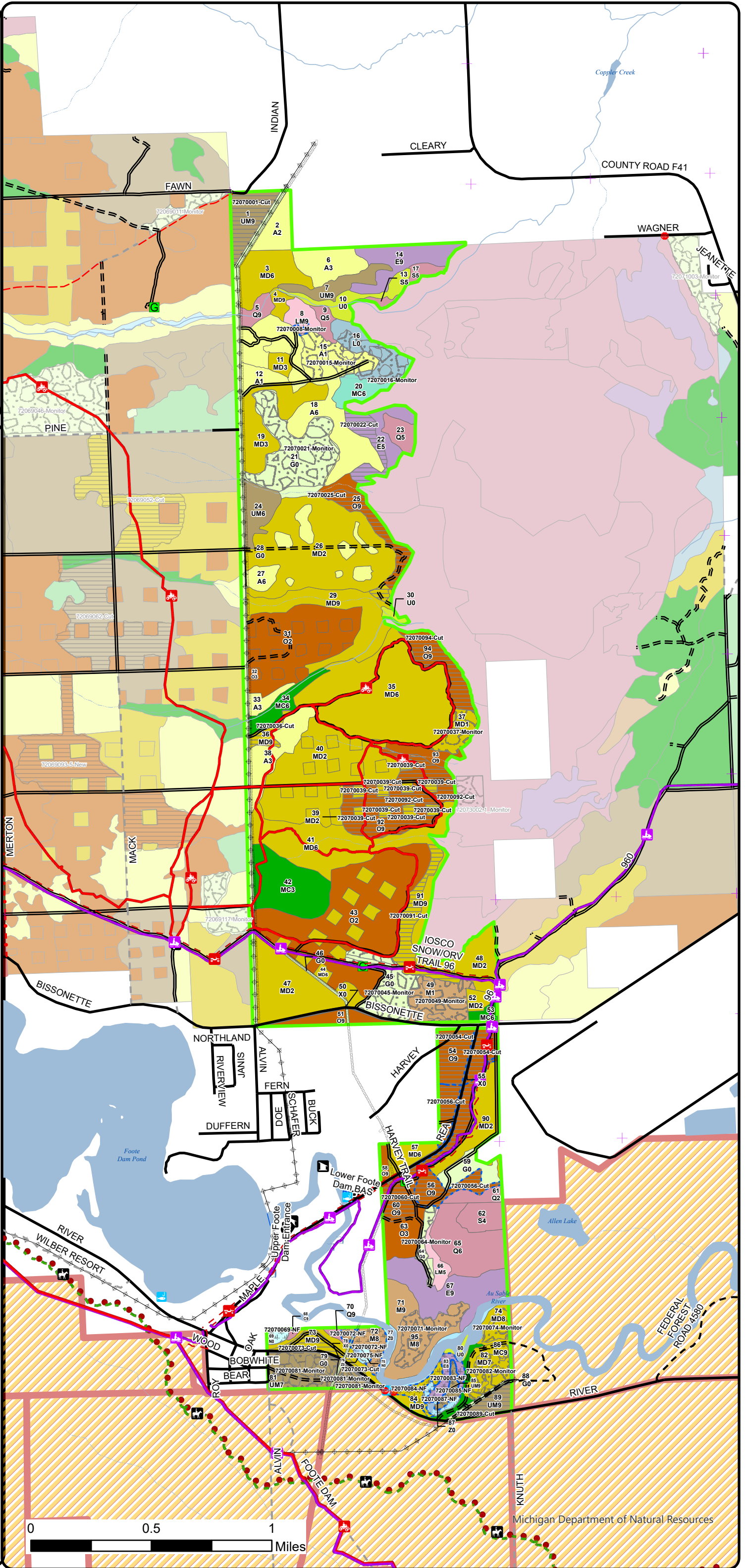
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 72070  
 T24N, R8E, Sec: 11, 14, 23, 26, 35  
 T23N, R8E, Sec: 2  
 County: Iosco  
 Unit: Grayling  
 Mgmt Area: High Sand Plains  
 YOE: 2026  
 Acres: 2134.8 GIS Calculated  
 Examiner: Garret Price  
 Map Revised: 10/2/2024  
 Map Phase: Post Review

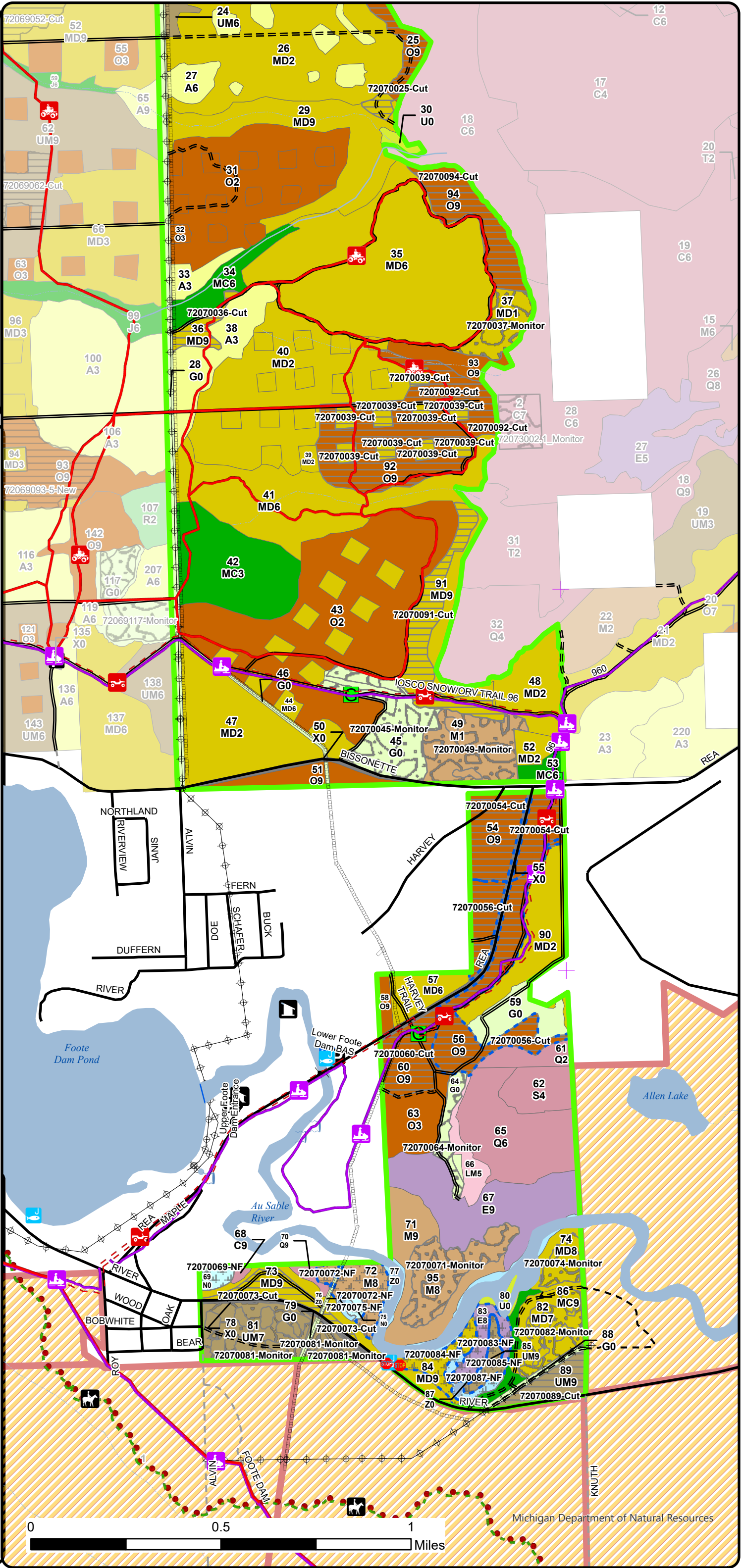
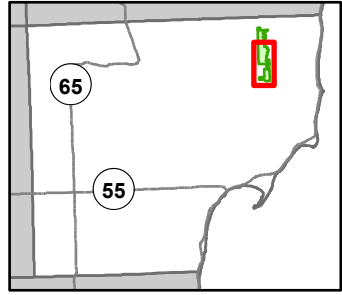


- Toilet
- Gate
- Boating Access Site
- Bridges
- Culvert
- Fishing Access Site
- Parking Lot
- Sign
- Remonumented Section Corners
- Hiking Trails
- Horse Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated Equestrian Trails
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- Private - Dirt / Gravel Road
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- Lake/Pond
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- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
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- 412 - Oak Types
- 413 - Aspen Types
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- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
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- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

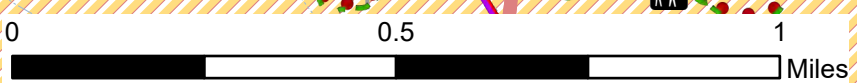


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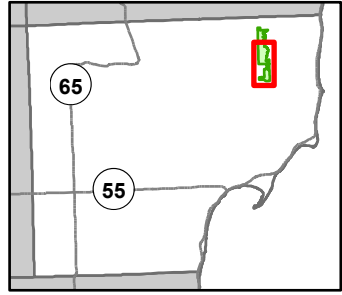


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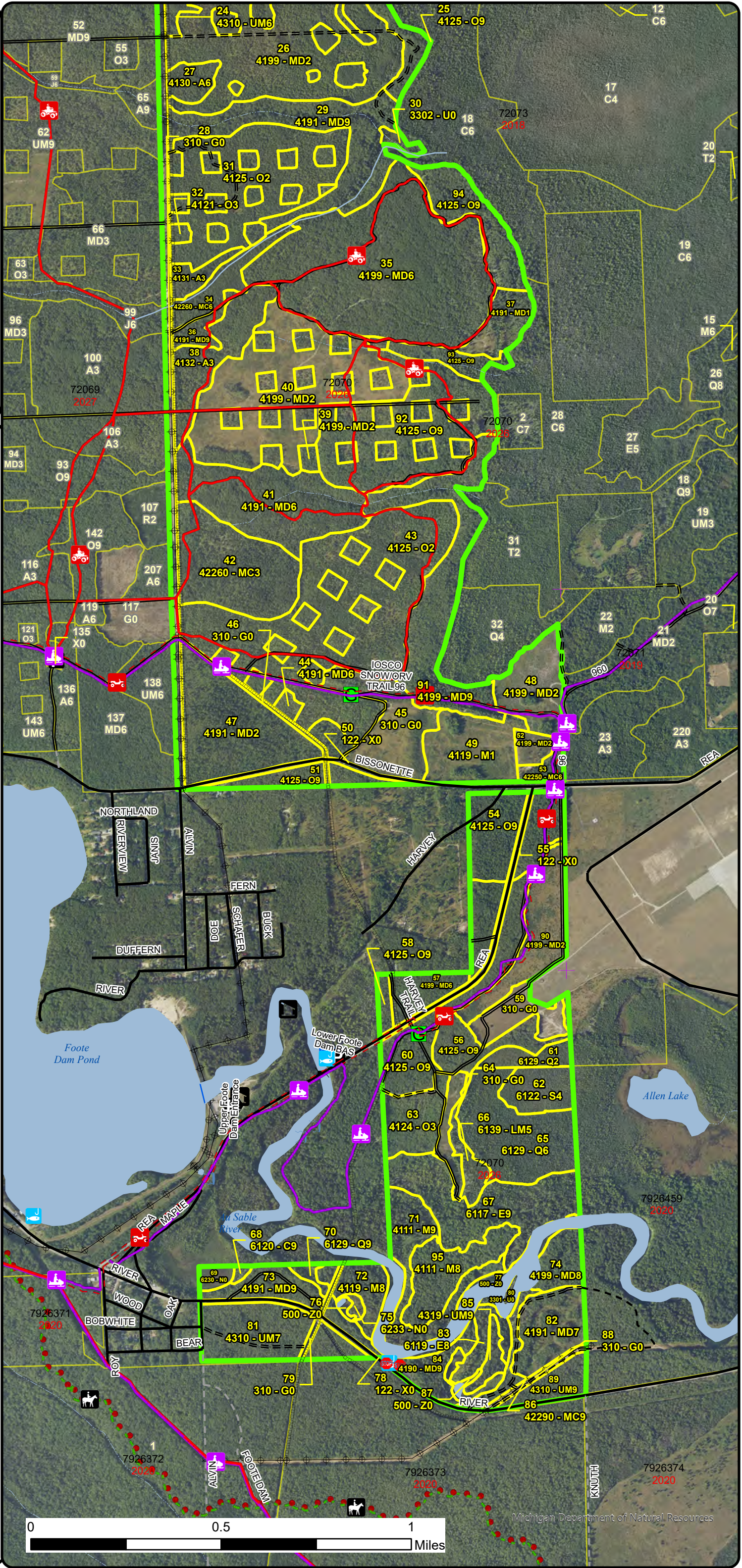


**Stand Boundary Map**

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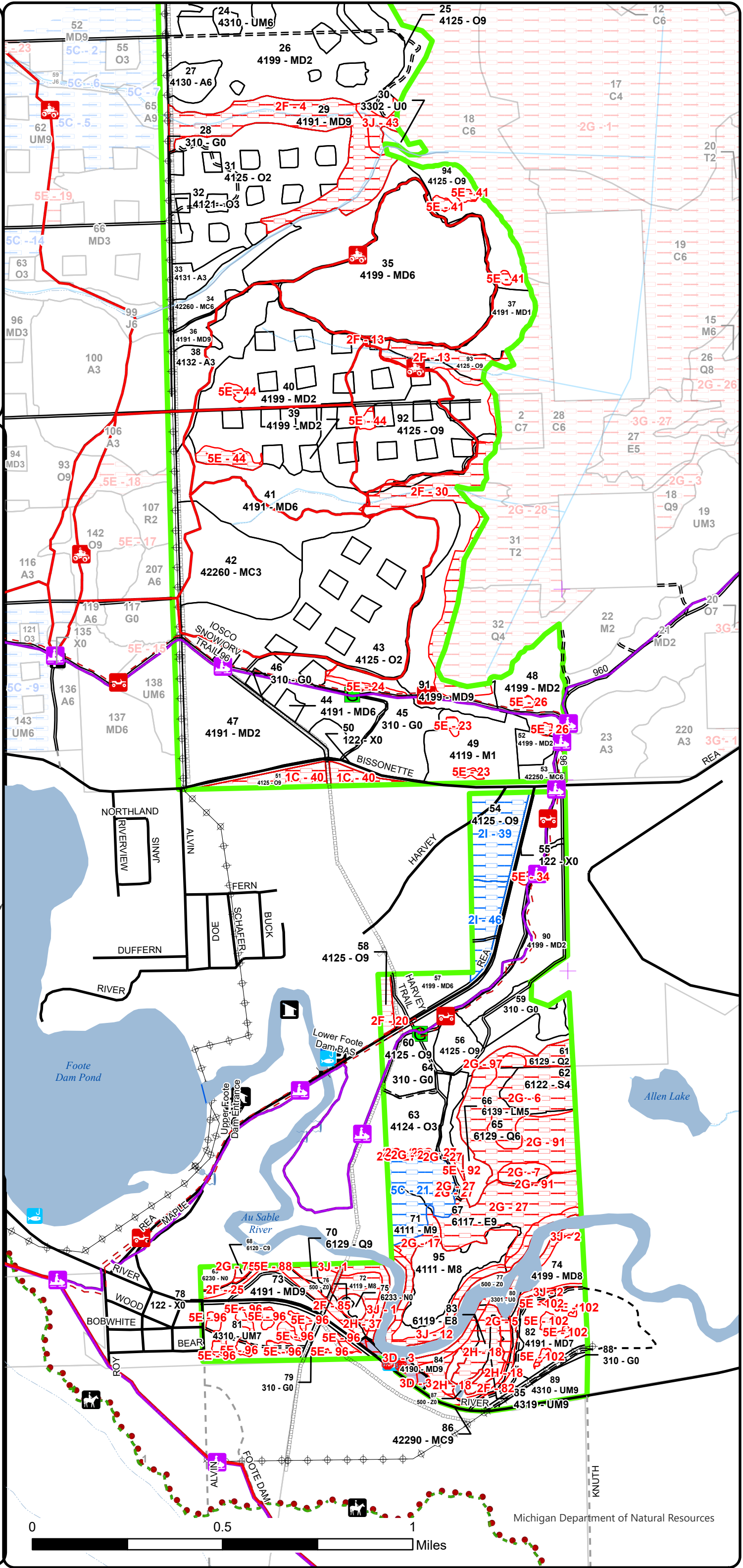
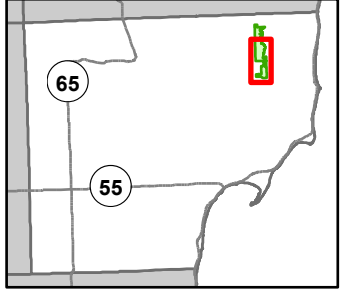


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# Special Conservation Areas & Site Conditions Map

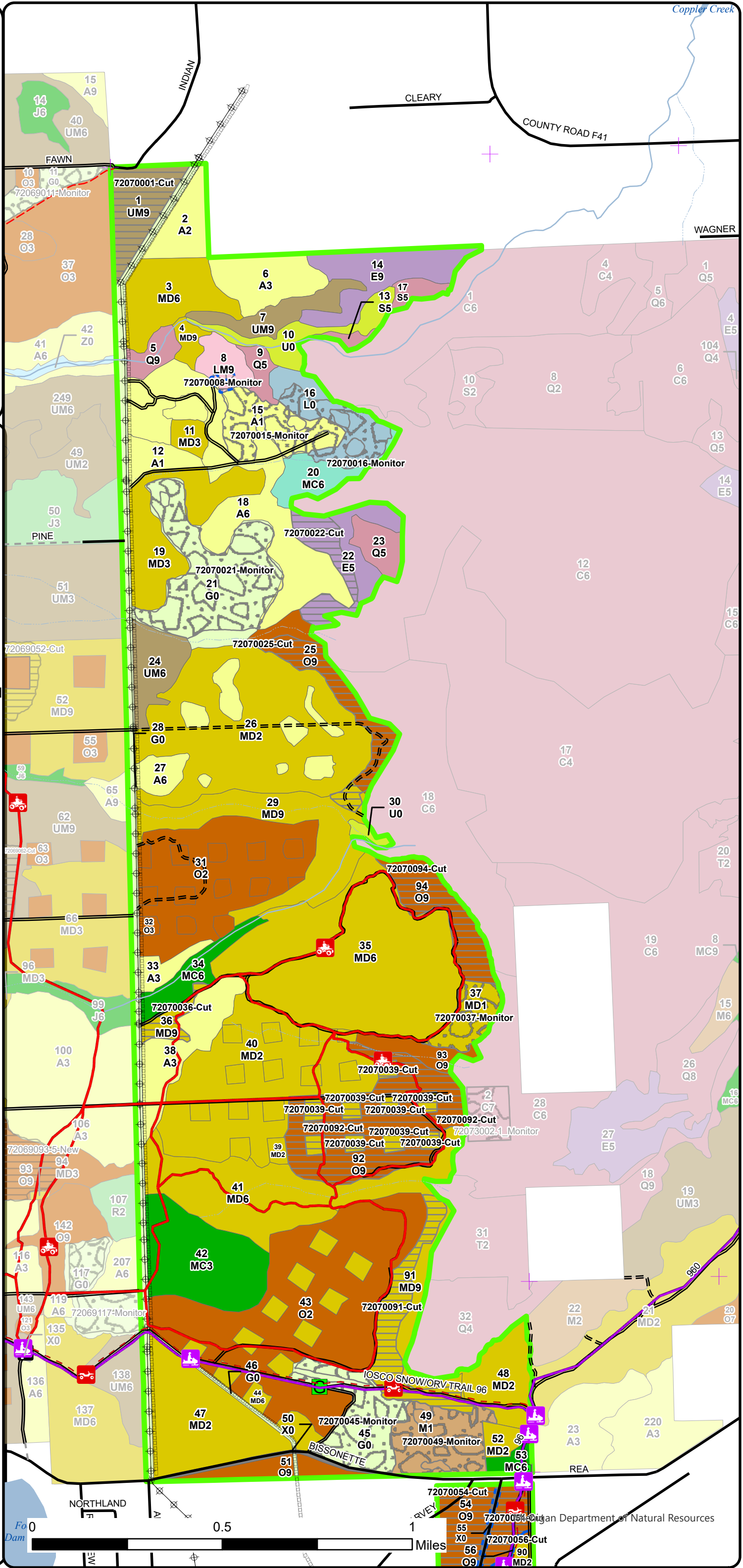
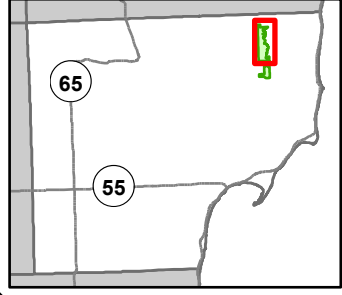
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- Available w/ Constraints
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- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
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- Cold Water Streams
- Fishing Access Site

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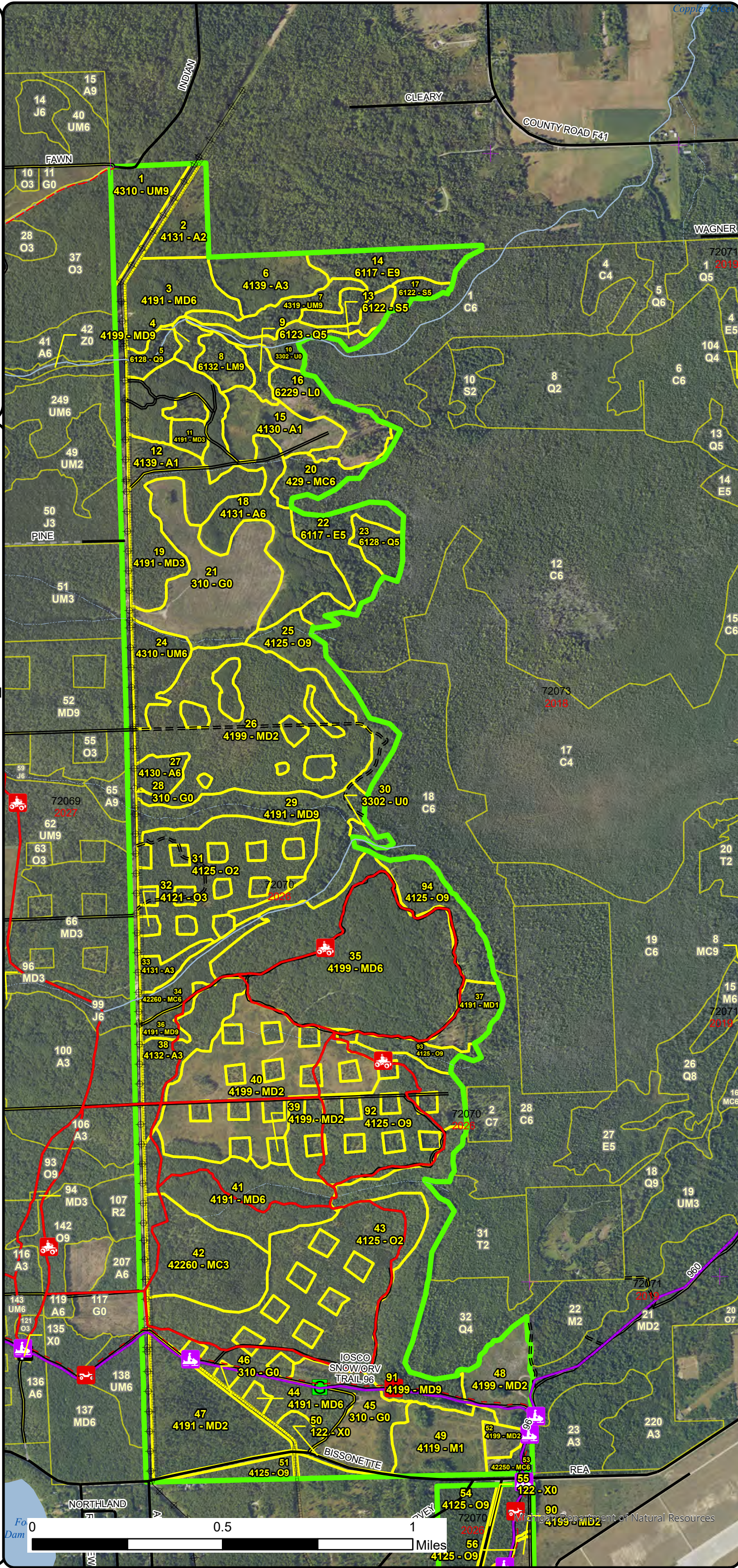
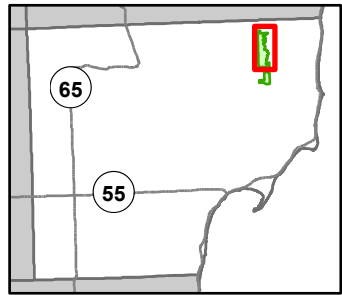


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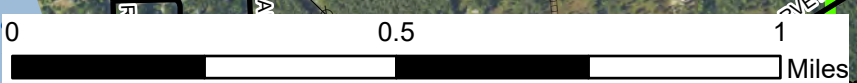


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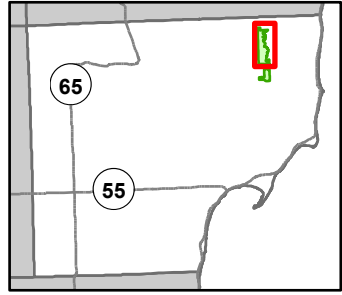
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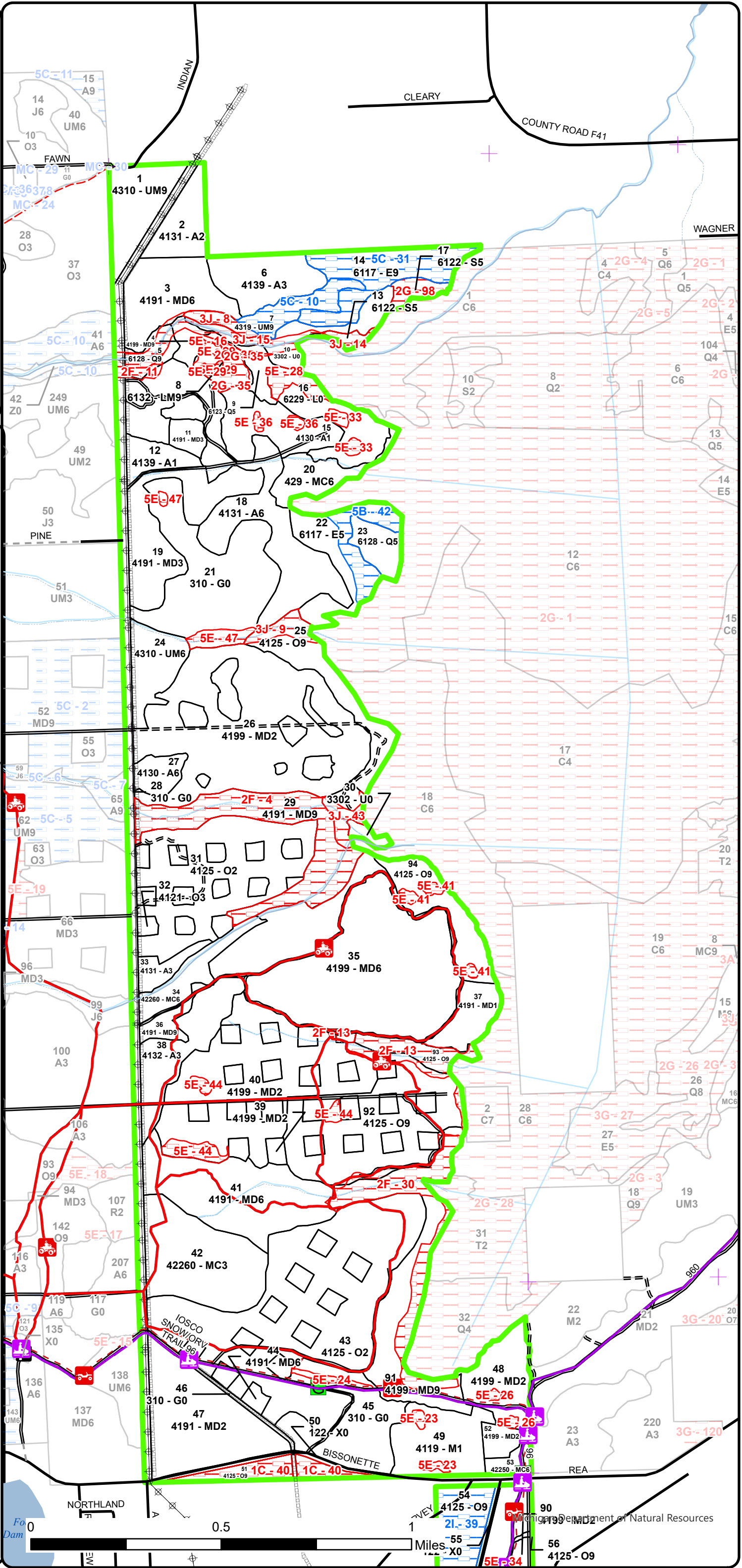


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- Stand Boundaries
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Michigan Department of Natural Resources  
 90  
 4125 - O9  
 56  
 4125 - O9

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	36	37	55	65	0	0	0	0	0	0	0	0	0	0	0	0	0	193
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Herbaceous Openland	164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164
Low-Density Trees	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	9	0	0	8	0	5	0	0	0	49	0	0	0	0	0	71
Lowland Deciduous	0	0	0	0	0	0	0	28	0	0	0	78	0	0	0	0	0	0	106
Lowland Mixed Forest	0	0	0	0	0	0	7	0	0	0	0	10	0	0	0	0	0	0	17
Lowland Shrub	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Spruce/Fir	0	0	0	0	0	0	0	5	0	0	13	3	0	0	0	0	0	0	20
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	141	153	97	186	29	0	0	0	0	0	160	0	0	0	0	12	0	777
Natural Mixed Pines	0	0	0	44	13	0	5	0	0	0	0	7	0	0	0	0	0	0	68
Northern Hardwood	0	27	0	0	0	0	0	0	0	0	0	12	46	0	0	0	0	0	85
Oak	0	0	194	19	0	0	0	40	0	0	0	111	31	31	0	0	0	0	426
Upland Conifers	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Mixed Forest	0	0	0	17	0	0	0	0	0	15	22	42	0	0	0	0	5	0	101
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
<b>Total</b>	<b>256</b>	<b>204</b>	<b>384</b>	<b>254</b>	<b>264</b>	<b>29</b>	<b>20</b>	<b>73</b>	<b>5</b>	<b>15</b>	<b>35</b>	<b>423</b>	<b>127</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>2133</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 70

Total Compartment Acres: 2,135

Commercial Harvest - 217  
 Harvests with Site Condition - 71  
 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
Lowland Deciduous	14	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	56	0	0	0	0	0	0	0	0	56
Oak	187	0	0	0	0	0	0	0	0	187
Upland Mixed Forest	32	0	0	0	0	0	0	0	0	32
<b>Total</b>	<b>288</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>288</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	288	0	0	0	0	0	225	0	42	555
Next Step	0	0	0	0	0	0	288	0	0	288
<b>Total</b>	<b>288</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>513</b>	<b>0</b>	<b>42</b>	<b>843</b>



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

<b>1</b>	<b>72070001-Cut</b>	21.6	4310 - Pine, Oak Mix	Sawtimber	91	111-140	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> cc 2 inch and up. Mark to leave all quality log WO and any RP/WP stems showing fire scarring or other Legacy characteristics. follow  <u>Specs:</u> standard retention</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen is a moderately to fully stocked oak, aspen, or mixed deciduous. In addition accept any amount of conifer regeneration.</p> <p><u>Other Comment:</u> oak wilt spec                      drumming log spec                      shrub spec                      cemetery to north of stand (discuss retention locations at Comp Review) Archeology indicated they would like to discuss if any treatments in this area due to cemetery.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>22</b>	<b>72070022-Cut</b>	14.1	6117 - Lowland	Poletimber	106	51-80	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Clear Cut 2 inch and up. except leave merch and up conifer. cut all aspen and red maple regardless of merchantability to encourage  <u>Specs:</u> sprouting. Adjust boundary to harvest the declining upland western portions of the stand. Retention will be a portion of the eastern half. Code the rest as too wet.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Accept a mix of Oak, Birch, Aspen, and Red maple. In addition accept any amount and species of conifer.</p> <p><u>Other Comment:</u> drumming log spec, shrub spec, hard oak wilt spec. protect witness trees during sale prep. Add EMR spec</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>25</b>	<b>72070025-Cut</b>	20.6	4125 - Black, N. Pin	Sawtimber	106	111-140	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> CC 2 inches and up. Mark to leave &lt; 5 sqft of White oak, White pine and Red Pine. Place retention on inoperable slopes. Make sure  <u>Specs:</u> boundary does not go down the hill where it will be too wet to turn around.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed oak is desirable but accept any Mixed upland deciduous species. In addition accept any amount of conifer regen.</p> <p><u>Other Comment:</u> Drumming log spec, hard oak wilt spec, shrub spec. Add EMR Spec</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
<b>36 72070036-Cut</b>	5.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	106	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> CC 2" and up. No retention due to size.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> any combination of oak, aspen red maple, and any amount of conifer is acceptable.  <u>Regen:</u>  <u>Other</u> ROW Spec  <u>Comment:</u> Trail Spec                      well heads and nat gas spec                      Hard oak wilt spec due to shape and size  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>39 72070039-Cut</b>	14.9	4199 - Other Mixed Upland Deciduous	Sapling Medium	26	1-50	Harvest	Clearcut	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> It was determined at compartment review to include 5 spots with stand 92 harvest.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> acceptable regeneration is a combination of oak with aspen, pine, and red maple.  <u>Regen:</u>  <u>Other</u> soft oak wilt, trail, and drumming log specs.  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>54 72070054-Cut</b>	30.6	4125 - Black, N. Pin Oak	Sawtimber Well	110	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> CC 2 inch and up. No Retention due to proximity to Wurtsmith airstrip.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Acceptable regeneration includes oak, aspen, red maple. In addition accept any density of conifer regeneration  <u>Regen:</u>  <u>Other</u> grouse spec, oak wilt spec, survey needed (corner was not found south of treatment on western boundary). Aspen is dropping out -  <u>Comment:</u> deteriorating timber spec.  <u>Site Condition:</u> Survey Needed  <u>Proposed Start Date:</u> 10/1 /2024</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
<b>56 72070056-Cut</b>	40.2	4125 - Black, N. Pin Oak	Sawtimber Well	62	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> CC 2 inch and up. No retention due to proximity to Wurtsmith runway.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable species are oak, aspen, red maple, and any combination of conifer</p> <p><u>Other Comment:</u> shrub spec, grouse spec, trail spec.oak wilt spec Survey needed for private corner NW of curve on Rea Road for Western Boundary.</p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>60 72070060-Cut</b>	16.3	4125 - Black, N. Pin Oak	Sawtimber Well	106	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> cc 2 inch and up, except do not cut merchantable and up conifer and white oak.</p> <p><u>Specs:</u> Place retention around the dense White oak regen and one or two pockets of heavy wp regen. Run boundary to slope break.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak is preferred, but accept any upland mix.</p> <p><u>Other Comment:</u> drumming log spec, trail spec, well heads and natural gas pipelines, shrub spec, soft oak wilt spec</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>73 72070073-Cut</b>	9.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	106	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all stems 2 inch and up, except do not cut any hemlock or legacy. Mark to leave WP, RP, WO and a couple of the higher quality hybrid oak for visual. Do not leave more than 10 sqft (not counting hemlock). Place retention where already drawn.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> accept any mix of aspen, mixed oak, RP, WP, hemlock, balsam fir, and white spruce. Mixed upland is expected due to the current conifers present in the understory. MUD is also acceptable if conifers fail to regenerate.</p> <p><u>Other Comment:</u> Boundary is to be placed on slope break (this is already approximated and excluded). Trail spec for county trail in stands south. Pipeline to the east. Corners not found in marsh to NW and AuSable river to NE. oak wilt spec.</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
<b>89 72070089-Cut</b>	10.2	4310 - Pine, Oak Mix	Sawtimber Well	106	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> CC 2 inch and up. mark to leave some red pine, white pine and white oak for visual off of River road and the County Bike Trail. Focus retention around denser pocket(s) of regen.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak and pine are preferred but accept any upland mix</p> <p><u>Regen:</u></p> <p><u>Other</u> trail spec, grouse spec, powerline to west, soft oak wilt spec</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>91 72070091-Cut</b>	25.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	106	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> cc 2 inch and up, except do not cut log conifer. mark to leave 5 to 10 quality white oak for mast.</p> <p><u>Specs:</u></p> <p>Treatment boundary has been approximated due to steepness and the hill ends at the start of the swamp. Only code a portion of this as LTR. Code the rest of the site conditioned exclusions as Too Steep or Too Wet.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Accept a combination of mixed oak, red maple, aspen and red and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> trail specs. Drumming log spec. hard oak wilt spec, EMR spec</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>92 72070092-Cut</b>	56.4	4125 - Black, N. Pin Oak	Sawtimber Well	100	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> clear cut 2 inch and up except do not cut log red and white pine. Mark to leave scattered quality white oak for mast, (no more than 5 sqft).</p> <p><u>Specs:</u></p> <p>Blow down in the east may be better for retention than what was set up previously.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed oak with aspen is preferred. All conifer at any density is also acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> apply soft oak wilt, trail and grouse specs. Add EMR spec</p> <p><u>Comment:</u></p> <p>It was determined to include 5 spots in harvest at pre-review.</p> <p>Note: Stand was previously set up last YOE and was turned back in. LTR may be better to place in stands east where extensive blowdown has occurred to buffer the swamp edge</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
<b>94 72070094-Cut</b>	22.4	4125 - Black, N. Pin Oak	Sawtimber Well	120	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> CC 2 inch and up, except mark to leave &lt; 5 sqft of quality White Oak, WP and RP. Use retention to exclude inoperable slopes. Code any acres above 10% retention as Too Steep.</p> <p><u>Specs:</u></p> <p>Note: stand was previously set up and turned back in. Old boundary may need to be blacked out and adjusted. Move existing retention to inoperable slopes</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak is preferred, but accept any moderate to fully stocked upland deciduous and conifer species mix.</p> <p><u>Regen:</u></p> <p><u>Other</u> Shrub Spec, hard oak wilt spec, drumming log spec. Add EMR Spec</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

**Approved Treatments:**

<b>8 72070008-Monitor</b>	1.4	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	103	141-170	Monitoring	Natural Regen (Re-Inventory)	6132 - Mixed Lowland Forest with Cedar	Even-Aged	No
<p><u>Prescription</u> carried forward monitoring due to recent harvest/stand not yet recruited</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Management objective is to regenerate the current deciduous species and promote cedar. Will accept any mix of species which meets stocking levels.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/1 /2033</p>										
<b>15 72070015-Monitor</b>	21.5	4130 - Aspen	Sapling Poor	3	Immature	Monitoring	Natural Regen (Re-Inventory)	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> monitor East half to ensure recruitment at Re-inventory</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Management objective is oak/aspen but will accept any upland mix.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2033</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
<b>16 72070016-Monitor</b>	15.7	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6118 - Lowland Deciduous with Cedar	Even-Aged	No
<p><u>Prescription</u> did not pass regen check monitor 2036 YOE</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Management objective is to regenerate the current species but will accept any mix that meets minimum stocking levels.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2033</p>										
<b>21 72070021-Monitor</b>	51.5	310 - Herbaceous Openland	Nonstocked	0	Immature	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> monitor reinventory, should get ftg oak with time</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Management objective is oak pine mix but will accept any upland mix.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2033</p>										
<b>37 72070037-Monitor</b>	13.1	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	5	1-50	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Monitor.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Management objective is a oak pine mix but will accept any upland mix.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>45 72070045-Monitor</b>	27.1	310 - Herbaceous Openland	Nonstocked		Immature	Monitoring	Natural Regen (Re-Inventory)	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> was not at ftg at last inventory</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak densities meeting minimum stocking levels, however, will accept any mix of upland species meeting minimum stocking level.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2033</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
<b>49 72070049-Monitor</b>	25.3	4119 - Mixed Northern Hardwoods	Sapling Poor	5	Immature	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Management objective is an oak pine mix but will accept any upland mix.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2033</p>										
<b>64 72070064-Monitor</b>	6.3	310 - Herbaceous Openland	Nonstocked		Unspecified	Monitoring	Natural Regen (Re-Inventory)	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> monitor reinventory</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u> Management objective is oak but will accept any upland mix.</p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2033</p>										
<b>69 72070069-NF</b>	3.3	6230 - Cattail	Nonstocked		Unspecified	NonForestMgt	Other - Specify	6239 - Mixed Emergent Wetland		No
<p><u>Prescription</u> Control non-native/invasive Phragmites, Narrow-leaved &amp; Hybrid Cat-tail, Japanese Barberry, Garlic Mustard, Honeysuckle, etc. Control</p> <p><u>Specs:</u> options may include herbicide, hand-pulling, cutting, burning, and other methods as indicated by current research. All methods must be approved for wetland use.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Native wetland species</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /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
<b>95 72070071-Monitor</b>	22.1	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	114	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Monitor reinventory  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Management objective is a diverse uneven-aged northern hardwood stand.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2033</p>										
<b>72 72070072-NF</b>	12.0	4119 - Mixed Northern Hardwoods	Sawtimber Medium	108	81-110	NonForestMgt	Other - Specify	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Control non-native/invasive Phragmites, Narrow-leaved &amp; Hybrid Cat-tail, Japanese Barberry, Garlic Mustard, Honeysuckle, etc. Control  <u>Specs:</u> options may include herbicide, hand-pulling, cutting, burning, and other methods as indicated by current research. All methods must be approved for wetland use.  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Natural community of understory flora.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition:</u> Blocked by Obstacle  <u>Proposed Start Date:</u> 10/1 /2026</p>										
<b>74 72070074-Monitor</b>	6.5	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	108	141-170	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Monitor Re-inventory 2033  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Management objective is an uneven-aged northern hardwood stand with a hard mast associate.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2033</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>75</b>	<b>72070075-NF</b>	1.6	6233 - Wet Meadow	Nonstocked		Unspecified	NonForestMgt	Other - Specify	6239 - Mixed Emergent Wetland	No
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Prescription Control non-native/invasive Phragmites, Narrow-leaved & Hybrid Cat-tail, Japanese Barberry, Garlic Mustard, Honeysuckle, etc. Control options may include herbicide, hand-pulling, cutting, burning, and other methods as indicated by current research. All methods must be approved for wetland use.

Next Step  
Treatments:

Acceptable Natural community of wetland flora.  
Regen:

Other H72-746  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2015

<b>81</b>	<b>72070081-Monitor</b>	21.4	4310 - Pine, Oak Mix	Sawtimber Poor	106	51-80	Monitoring	Natural Regen (Re-Inventory)	4310 - Pine, Oak Mix	Uneven-Aged	No
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Prescription monitor natural regen, Oak Pine OBJ  
Specs:

Next Step  
Treatments:

Acceptable Management objective is a two-aged mixed pine, oak stand. The future goal for this stand would be an uneven-aged system. Will accept any upland mix.  
Regen:

Other Percent to Treat = 100%  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2033

<b>82</b>	<b>72070082-Monitor</b>	12.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	106	51-80	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Uneven-Aged	No
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Prescription Monitoring treatment carried forward to next year of entry.  
Specs:

Next Step  
Treatments:

Acceptable Management objective is to restart portions of this stand to oak while promoting the succession of white pine in this stand. Will accept any upland mix in place of oak.  
Regen:

Other Percent to Treat = 100%  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2033



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>83</b>	<b>72070083-NF</b>	8.2	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	106	111-140	NonForestMgt	Other - Specify	611 - Lowland Deciduous Forest	Uneven-Aged	No
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Prescription Specs: Control non-native/invasive Phragmites, Narrow-leaved & Hybrid Cat-tail, Japanese Barberry, Garlic Mustard, Honeysuckle, etc. Control options may include herbicide, hand-pulling, cutting, burning, and other methods as indicated by current research. All methods must be approved for wetland use.

Next Step Treatments:

Acceptable Regen: Natural community of wetland flora.

Other Comment: Percent to Treat = 100%

Site Condition: Blocked by Obstacle

Proposed Start Date: 10/1 /2025

<b>84</b>	<b>72070084-NF</b>	8.1	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	150	171-200	NonForestMgt	Other - Specify	4190 - Mixed Upland Deciduous with Cedar	Uneven-Aged	No
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Prescription Specs: Control non-native/invasive Phragmites, Narrow-leaved & Hybrid Cat-tail, Japanese Barberry, Garlic Mustard, Honeysuckle, etc. Control options may include herbicide, hand-pulling, cutting, burning, and other methods as indicated by current research. All methods must be approved for wetland use.

Next Step Treatments:

Acceptable Regen: Natural community of understory flora.

Other Comment: Percent to Treat = 100%

Site Condition: Blocked by Obstacle

Proposed Start Date: 10/1 /2025

<b>85</b>	<b>72070085-NF</b>	4.8	4319 - Mixed Upland Forest	Sawtimber Well	160	141-170	NonForestMgt	Other - Specify	4319 - Mixed Upland Forest	Uneven-Aged	No
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Prescription Specs: Control non-native/invasive Phragmites, Narrow-leaved & Hybrid Cat-tail, Japanese Barberry, Garlic Mustard, Honeysuckle, etc. Control options may include herbicide, hand-pulling, cutting, burning, and other methods as indicated by current research. All methods must be approved for wetland use.

Next Step Treatments:

Acceptable Regen: Natural community of understory flora.

Other Comment: Percent to Treat = 100%

Site Condition: Blocked by Obstacle

Proposed Start Date: 10/1 /2025



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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
87 72070087-NF	4.4	500 - Water	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	6239 - Mixed Emergent Wetland		No
<p><u>Prescription</u> Control non-native/invasive Phragmites, Narrow-leaved &amp; Hybrid Cat-tail, Japanese Barberry, Garlic Mustard, Honeysuckle, etc. Control options may include herbicide, hand-pulling, cutting, burning, and other methods as indicated by current research. All methods must be approved for wetland use.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Natural community of wetland flora.</p> <p><u>Regen:</u></p> <p><u>Other</u> H72-746</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>										

**Total Treatment** 555  
**Acreage Proposed:**

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Garret Price: Examiner

Compartment: 70  
Year of Entry: 2026



### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions											
		With Condition	Not Available		2I	5B	5C	1C	2F	2G	2H	3D	3J	5E		
193	191	0	2	Aspen			0		1							2
1	0	0	1	Cedar					0	1						
164	155	0	9	Herbaceous Openland			0	0	1	0	0			1		8
22	15	0	8	Low-Density Trees			0		0	0				7		
71	16	0	56	Lowland Conifers					1	47	2			5		0
106	14	53	39	Lowland Deciduous		12	41		0	29	6			4		
17	8	0	9	Lowland Mixed Forest						7				1		2
23	16	0	7	Lowland Shrub												7
21	0	0	21	Lowland Spruce/Fir						18				2		
5	5	0	0	Marsh					0		0					
777	672	0	104	Mixed Upland Deciduous					76		5	1	12			10
69	67	0	2	Natural Mixed Pines					2	0						
85	51	8	26	Northern Hardwood			8		0	4	7			13		2
426	357	29	39	Oak	29		0	12	18					5		4
13	13	0	0	Upland Conifers												
101	72	11	17	Upland Mixed Forest			11		0	0	5			4		9
15	15	0	0	Urban										0		
27	26	0	1	Water					1	0	0	0				
2,135	1,692	101	342	Total Forested Acres	29	12	60	12	101	106	25	1	54			44
	79%	5%	16%	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	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lower Au Sable River buffer 100ft.							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Garret Price: Examiner

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2	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lower Au Sable River buffer 100ft.							
3	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2F: Too steep</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lower Au Sable River buffer 100 ft.							
9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2F: Too steep</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lower Au Sable River buffer 100ft.							
13	<b>Unavailable</b>	<b>2F: Too steep</b>	13	<b>3J: Water quality / BMPs 5E: Long-Term Retention (stream, river, or lake)</b>		Unspecified	Unspecified
<b>Comments:</b> Area of sale that is too steep and near a stream, will use this area as long term retention for both stand 37 and 40.							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Garret Price: Examiner

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14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Within 200' buffer zone for Coppler Creek							
15	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 200 ft. buffer Cobbler Creek.							
16	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Use for long term retention							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Forested drain which holds water year round. Many windthrown trees along it.							
18	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Site condition covers mixed upland/lowland areas which are inaccessible due to the AuSable River to the N/W and steep ridges to the S/E.							
20	<b>Unavailable</b>	<b>2F: Too steep</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Garret Price: Examiner

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21	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> difficult access due to terrain and saturated soils. Hold for now.							
23	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Unavailable</b>	<b>2F: Too steep</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	27	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Update Price 2026 YOY: Stand was untreated. Vernal Pools and hemlock throughout. Treatment removed Old Site Condition Notes: Stand has been too wet since inventory to enter. Also became part of Massasauga CCA, so we cannot afford to do rutting in CCA area. Adj stand has been set up. Will see if producer who cuts adj hardwood thinning may have ability to enter stand and do part of the harvest. If so will pursue a negotiated sale to try to cut what we can. Depends on weather and conditions at time when producer is cutting other stand.							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Garret Price: Examiner

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28	Unavailable	5E: Long-Term Retention	5	3J: Water quality / BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b> Ephemeral runs along northern portion of stand. Will use for long term retention.							
29	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Unavailable	2F: Too steep	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for sale # 72-020-18, Wurtsmith Clearing							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Garret Price: Examiner

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36	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stands located between AuSable River and a steep ridge, making them inaccessible.							
39	Available	2I: Survey needed	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> corner just NW of the curve on Rea Road could not be found							
40	Unavailable	1C: Other dept or div proc/practices	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Parcel should be disposed of due to heavy trespass, and PR of having a timber sale in-between peoples front yards and the road.							
41	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
43	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Garret Price: Examiner

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44	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
46	Available	2I: Survey needed	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
47	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
75	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
82	Unavailable	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
85	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
88	Unavailable	5E: Long-Term Retention	0	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> retention pre drawn at comp review. Hemlock present. No known corners to run north line due to inaccessible location.							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Garret Price: Examiner

Compartment: 70  
Year of Entry: 2026



91	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
92	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long Term Retention for stand 72070064. Part of sale 72-009-17							
96	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
97	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
98	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lowland stand, part of Coppler Creek.							
102	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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
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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>1</b>	4310 - Pine, Oak Mix	Sawtimber Well	21.6	91	111-140	N/A	Variable species composition and density throughout. pockets of denser aspen and mature to overmature red pine. JP is continuing to drop out. Low density seedlings of rp, wp, wo, hybrid-black-pine oak with each species locally high. Ground cover of full bracken fern, slightly rolling hills. 1 canopy dominant H/BO and 1 codominant RP cored. H/BO 97 RP 69. RP and oak show considerable senescence in growth the past 10+ years. Stands interior is primarily pockets of hybrid/pine oak, aspen and a higher density of (planted or interplanted?) red pine. Scattered super canopy X log pine throughout stand with fire scars, protect during set up.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Pole/Log	9	
Jack Pine	5	Pole	8	64
White Oak	2	Pole/Log	8	
Black/Red (Hybrid) Oak	40	Log	13	91
Bigtooth Aspen	15	Log	12	
Red Pine	36	Log	13	71

Sub-Canopy Species	Density	Avg. Height	Size
Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
White Pine	Low	Variable	Seeding
Red Oak	Low	Variable	Seeding
Red Pine	Low	Variable	Sapling
Huckleberry	Medium	< 5 feet	Tall Shrub

Old comments 2016 YOE:  
Natural pine stand with a mix of oak and aspen. Red pine is mostly single aged with scattered large diameter pine present. Red pine is also in the understory. Unsure if a new recruiting age class or suppressed individuals. Oak and aspen are persisting, but the jack pine is beginning to die out.

<b>2</b>	4131 - Aspen, Oak	Sapling Medium	15.3	11	Immature	N/A	Patchy oak aspen, rm regen variable in composition and density. Understory wp, rp, jp at low to moderate throughout. passes regen check. Small open areas should continue to fill in. Handful of overstory X log RP and a couple WP.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	1	XLog	18	
White Pine	1	XLog	18	
White Pine	10	Sapling	1	
Red Pine	3	Sapling	1	
Bigtooth Aspen	50	Sapling	1	11
Black/Red (Hybrid) Oak	35	Sapling	1	11

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Trace	< 5 feet	Sapling
Black/Red (Hybrid) Oak	High	5 - 10 feet	Sapling
Balsam Fir	Trace	< 5 feet	Sapling
White Pine	Trace	< 5 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling

Old Comments 2016 YOE:  
N end is lower density w/ some tag alder seeding into conifers, wp, bf, and scattered rp.

<b>3</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	28.5	46	81-110	N/A	Hold 10 west is still small pole aspen. Aspen diameter larger in east.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Pole/Log	8	
Bigtooth Aspen	35	Pole	8	46
Black/Red (Hybrid) Oak	35	Pole	7	46
White Pine	15	Log/Pole	10	
Red Pine	5	Log	12	71

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Red Oak	Medium	Variable	Sapling
Witch Hazel	High	5 - 10 feet	Tall Shrub
White Pine	Low	Variable	Sapling

Good mix of oak and aspen throughout. Residual pine from '78 harvest are producing seed and should help maintain a pine component to this stand. SW corner of this stand contains the ridge for and part of the Cobbler Creek flood plain. Aspen and red maple make up this area.

<b>4</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.8	101	81-110	N/A	edge call. oak is doing ok up top. too steep to operate
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	30	Log	16	101
Red Pine	2	XLog/Log	20	
Red Oak	48	XLog/Log	20	101
White Oak	5	Log/XLog	17	
Red Maple	15	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Red Oak	Low	Variable	Sapling
White Pine	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

Old Comments 2016 YOE:  
Old Comments: Nice clump of sawlog oak by trail road. Oak aspen plateau. White pine succeeding along with scattered oak in large enough gaps. Aspen is dying out of stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**5** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 7.2 113 141-170 N/A edge call old comments confirm. too steep. aspen/oak declining

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	20	Log	13	101
Red Maple	5	Log	11	
Bigtooth Aspen	15	Log	14	101
Northern White Cedar	25	Pole/Log	8	113
White Pine	25	XLog/Log	19	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Hemlock	Low	10 - 20 feet	Pole

Old Comments 2016 YOE:  
South 1/4 of stand is on the north facing aspect of the Cobbler Creek flood plain, the middle 1/2 is in the flood plain itself, and the north 1/4 is on the south aspect. Aspen, oak dominate the ridges while white pine and cedar are more common below. Red pine and maple are scattered throughout the stand. Paper birch is present but dying out of the stand. Few hemlock in the understory and canopy. Cobbler Creek runs through this stand.

**6** 4139 - Aspen, Mixed Deciduous Sapling Well 21.9 12 Immature N/A hybrid oak amd white pine filling in gaps. not much is competitive with as and rm

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	15	Sapling	3	
Red Pine	1	XLog/Log	20	
White Oak	2	Log	14	
Red Oak	3	Log	14	
Red Maple	20	Sapling	2	12
Bigtooth Aspen	59	Sapling	2	12

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
White Oak	Low	5 - 10 feet	Sapling
White Pine	Medium	5 - 10 feet	Sapling

old  
Scattered log size oak over a sapling aspen stand. Deer browse was not heavy.

**7** 4319 - Mixed Upland Forest Sawtimber Well 14.8 86 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	20	Log	13	110
White Pine	35	Log	14	86
Red Maple	15	Log/Pole	10	
Quaking Aspen	5	Log/Pole	10	
Red Oak	20	Log/Pole	10	101
White Oak	5	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling
Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Black Spruce	Low	Variable	Sapling
Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	Medium	10 - 20 feet	Sapling

Only northern stand perimeter is operable due to waterquality bmp concerns in drainage and vps in rest of stand. walked stand perimeter. did not see cedar pockets. alder and pools present throughout especially in west half. variable size/density due to naturally occuring gap dynamics in stand arguably 2 aged. hold unless acres needed. legacy oak and wp present. mostly rm and aspen in openings. some scattered oak and pboldPatches of solid cedar red maple with WP overstory. Coppler Creek adjacent. Overstory white pine varies in age due to gap phase dynamics. Recruitment is still occuring. Oak appears to be healthy for its age, suggesting decent site index values. Cedar pockets are 100 plus years.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>8</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	9.9	103	141-170	N/A	standing water in depressions at edge where harvest stopped. edge call deteriorating portions of stand giving way to balsam spruce regen coming in in gaps. white pine on higher ground. birch has mostly dropped out and red maple is declining.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Log	12	103
Balsam Fir	15	Pole	8	
White Pine	5	XLog	23	
Northern White Cedar	25	Log	11	
Paper Birch	20	Log	11	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
White Pine	Low	Variable	Sapling

old comments  
Southern portions harvested under contract 72-014-17 Comp 70 Lowland Oak. Areas of standing water within treatment area. Producer tried multiple times to cut remaining portions but got stuck multiple times, and with leaving all cedar did not provide enough operability. Even in very frozen or dry conditions, excessive rutting and BMP concerns were present.

Red maple, paper birch with cedar pockets. Large diameter white pine scattered throughout the stand. Cedar and WP appear to be the same age. Canopy balsam is mostly a younger age class recruiting but older individuals are within the stand. Red maple is holding on but the paper birch is on the decline. Balsam fir regeneration is thick in spots and nonexistent in others.

<b>9</b>	6123 - Lowland Fir	Poletimber Medium	5.3	76	51-80	N/A	edge call. old comments confirmed old Originally part of stand 8. This stand is a good example of lowland type disturbance. Significant blow down has occurred within this stand over the past 10 - 15 years. More than likely due to a slightly higher water table. Remnant paper birch and red maple still persist but most are now large coarse woody debris. The understory balsamm fir now occupies the canopy along with red maple and some white pine that was present. New growth of balsam and red maple are now present in the understory.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Log	12	
Balsam Fir	53	Pole	7	76
Black Spruce	5	Sapling/Pole	4	
Northern White Cedar	2	Pole/Log	8	103
Red Maple	30	Pole/Log/Sap	8	103

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

<b>10</b>	3302 - Low Density Conifer Trees	Nonstocked	15.8		Immature	No	marsh grasses in creek floodplain old Tag alder stand with pockets of tamarack and balsam fir. Large diameter white pine are mainly along edge of stand. Cobbler Creek runs through this stand.
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Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Pole
White Spruce	Low	Variable	Sapling
White Pine	Low	Variable	Log
Tag Alder	High	Variable	Tall Shrub
Tamarack	High	Variable	Pole

<b>11</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	5.0	27	51-80	N/A	more aspen than previously indicated. aspen overtopping oak in much of stand. aspen is doing well. scattered rp and wprn in canopy. clumps of wp regen in understory. old comments 2016 yoe Stand was cut in '97. Oak regenerated to full stocking with a good mix of jack pine with it. Oak is half multiple stem clumps and single stem individuals.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	40	Sapling/Pole	4	27
Jack Pine	30	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**12** 4139 - Aspen, Mixed Deciduous Sapling Poor 12.8 5 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	15	Sapling	1	5
Red Pine	1	Sapling/Pole	4	
Red Maple	20	Sapling	1	5
White Pine	15	Pole/Log	8	
Bigtooth Aspen	49	Sapling	2	5

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling

Stand inadvertently deleted during update. Stand info restored from archive data. Stand passed monitoring treatment reinventory. Canopy should fill in by next YOE.

multipart Stand has Aspen clones dominating where present currently. The remaining portion of the stands is filling into Black and pin oak. Additional time will be needed to count the majority of the oak saplings toward canopy cover. Add a monitoring treatment for next year of Entry To ensure proper regeneration. Once oak recruits I expect the stand to be fully stocked. Red and white Pine left during previous Harvest vary widely in age. Residual white Average roughly 40 years old. The majority of Pine regeneration Seating in from previous Harvest is located Along the perimeter of the stand.

Harvested under contract 72-014-17 Comp 70 Lowland Oak Mix. Good regeneration throughout composed of Aspen, Oak and Red Maple. Left all red and white pine. Parent stand was 101 years old.

Old Comment: Delayed treatment for age/size class diversity. Natural pine sub-canopy is recruiting into the canopy. White pine is occupying canopy gaps more efficiently than red pine which is mostly suppressed. Canopy oak and jack pine growth have stagnated, high rings per inch. Jack pine is experiencing the most mortality. Aspen did well on this site. Scattered large diameter red pine throughout the stand.

**13** 6122 - Black Spruce Poletimber Medium 2.5 101 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	35	Pole/Log	8	
Tamarack	5	Pole/Log	8	
Black Spruce	53	Pole/Log	8	101
Northern White Cedar	2	Pole/Sapling	5	
White Pine	5	XLog/Log	19	101

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling

cedar is flagging and dying from where visible near creek

**14** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 27.9 67 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Log/Pole/XLog	16	67
Balsam Fir	5	Pole/Log	8	
White Pine	5	XLog	20	
Quaking Aspen	25	Log	14	
Red Oak	10	Pole/Log	8	
Paper Birch	5	Pole	7	67

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Sapling
Witch Hazel	Medium	< 5 feet	Tall Shrub
Balsam Fir	Full	10 - 20 feet	Sapling
Alder	Low	5 - 10 feet	Tall Shrub
White Pine	Medium	Variable	Sapling

old comments confirmed from western and southern edge. beaver activity. overstory is dropping out in places. white pine and aspen filling in perimeter gaps. legacy wp visible above canopyoldDeciduous canopy with primarily a conifer understory. Areas of this stand appear to have had canopy disturbance. Pockets of red maple, oak, birch throughout 1 - 2 acres at a time. Red maple and aspen overstory is beginning to decline. Balsam fir is filling in underneath.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
<b>15</b>	4130 - Aspen	Sapling Poor	23.0	3	Immature	N/A	good aspen regen throughout west half. oak mix lagging behind in understory. serviceberryn and witchhazel is scattered. east half is 10%or less canopy cover. rm and wp widely scattered. rm stump sprouts are heavily browsed but approaching ftg.old comments 2016 yoeParent stand 101 years old. West portion harvested in 2020/2021 with the east portion harvested in Spring 2022. Good regeneration already in the west half. 72-014-17 Comp 70 Lowland Oak. Red and white oak stand with red maple along swamp edge and aspen to the south. Site index is lowest in the SW corner and increases as you move north. Black oak occupies the SW corner.																																											
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<b>16</b>	6229 - Mixed lowland shrub	Nonstocked	23.0	0	Unspecified	6118 - Lowland Deciduous with Cedar	edge call. add monitoring nat regen next inv. limited deciduous regen. non3 is free to grow. some residual white pine balsam and spruce saplings but widely scattered clumpssome blowdown on cut edgeold commentsHarvested summer 2022 under contract 72-014-17 Comp 70 Lowland Oak Mix. This stand was more operable than stand 8 due to proximity from creek. Soft ground but significantly more operable than the other lowland unit within the sale. Residual Pockets of Cedar were left along with scattered white pine. Should get good regeneration back from the adjacent upland cut along with the mixed deciduous within the stand.  Transition from upland oaks to cedar swamp. Red maple, paper birch and aspen are the main component with oak to the west and cedar to the east. Scattered large diameter white pine along the swamp edge. Ash component has fallen out. Was heaviest to the south.																																											
<b>17</b>	6122 - Black Spruce	Poletimber Medium	4.9	67	1-50	N/A	edge call across creek. confirmed spruce, wp and cedar. tags by Coppler Creek  Old Comments 2016 YOE: Black spruce with cranberry, blue berry understory. Scattered log size white pine. This stand becomes more wet as you approach the river. Tag alder increases as well.																																											
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<b>18</b>	4131 - Aspen, Oak	Poletimber Well	65.2	35	51-80	N/A	Old comments confirmed Stand is primarily pole Aspen Aspen stand with widely scattered Jack Pine red pine and white Pine Present along with clumps of OakOld Comments 2016 YOE:Primarily an aspen stand with pockets of heavier oak regeneration. Scattered red pine has also recruited into the canopy.																																											
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<b>19</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	34.2	27	51-80	N/A	This stand is primarily small pole To sapling Black And pin oak With Jack Pine The stand is a mosaic With uneven distribution and density throughout  Old Comments 2016 YOE: Oak is primarily in clumps. Single stem individuals scattered throughout. Jack pine is evenly mixed. Some red pine present as well.																																											
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<b>20</b>	429 - Mixed Upland Conifers	Poletimber Well	13.4	28	1-50	N/A	edge call, old comments confirmed, small pole on average, variable in size and height. overstory appears to be in good health																																																								
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<b>21</b>	310 - Herbaceous Openland	Nonstocked	57.5	0	Immature	4122 - Oak, Pine	Stand needs more time for Oak to recruit throughout the majority There's widely scattered red and white Pine regeneration throughout. Stands Northwest corner Has recruited to big tooth aspen. Add additional reinventory monitoring treatment																																																								
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<b>22</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	26.0	106	51-80	N/A	overstory oak on low end of ba range. oak is good quality and should be cut in western portions where it is impeding regeneration from salvage. cc to encourage better regen boundaries approximated. no retention due to size																																																								
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Willow spp.	Low	Variable	Tall Shrub																																																												
<b>23</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	9.3	25	51-80	N/A	old comments comments confirmed. older cedar and hardwood continuing to drop out. stand could arguably be considered 2 age if blowdown. and decline continue																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>24</b>	4310 - Pine, Oak Mix	Poletimber Well	17.0	26	1-50	N/A	Old comments confirmed. jp is doing well here. Some small openings and areas of lower stocking typical of natural jp as oak mixesold comments 2016 YOENatural jack pine stand with a mix of oak throughout. Aspen is in pockets. Heavy understory of oak seedlings. Should recruit in gaps.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		15	Pole/Sapling	6		Black/Red (Hybrid) Oak		
White Pine		5	Sapling	4		Jack Pine		
Jack Pine		50	Pole/Sapling	5	26	White Oak		
Black/Red (Hybrid) Oak		30	Sapling	4				
<b>25</b>	4125 - Black, N. Pin Oak	Sawtimber Well	23.3	106	111-140	N/A	Operable portions of stand should be cut. return in snow off to I9cate creek referenced in old comments. not observed old comments 2016 yoeLarge diameter mature oak stand. Minimal understory in the north with it gradually thickening as you move south. Transition from uplands to lowlands. Small creek runs through the north portion of stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black/Red (Hybrid) Oak		63	Log	17	106	White Pine		
Red Maple		30	Pole/Log	8		Balsam Fir		
Bigtooth Aspen		5	Log	14		Witch Hazel		
White Pine		2	Log	16				
<b>26</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	101.0	15	Immature	N/A	stand is still lightly stocked in areas but Oak is continuing to fill in and meeting recruitment height. scattered super canopy red pineold comments 2014 year of EntryHarvested under contract # 72-033-06-01 8 Point Oak in 2008 - 2009. Advanced oak was not protected because of its sprouting ability. Deer browse throughout the stand on oak below 5 ft. Canopy is primarily made up of oak 5ft and higher.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		5	Sapling	3		Black/Red (Hybrid) Oak		
Bigtooth Aspen		30	Sapling	3	15			
Jack Pine		5	Sapling	2				
White Pine		5	Pole/Sapling	5				
Red Pine		2	XLog/Log	18				
Red Maple		15	Sapling	2				
Northern Pin Oak		10	Sapling	3				
Black/Red (Hybrid) Oak		25	Sapling	3	15			
White Oak		3	Sapling	3				
<b>27</b>	4130 - Aspen	Poletimber Well	23.5	26	51-80	N/A	islands not cut during previous harvest. some variability in conifer componentold comments 2016 year of EntryDense aspen pockets within surrounding oak stand. Provide good wildlife cover for species while the surrounding stand is regenerating.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		10	Pole/Sapling	7		Jack Pine		
Jack Pine		5	Pole/Sapling	5		Black/Red (Hybrid) Oak		
Bigtooth Aspen		83	Pole/Sapling	7	26			
<b>28</b>	310 - Herbaceous Openland	Nonstocked	48.3		Immature	No	see draft treatment notes. some boulders and guardrails in place to prevent rdrs. valleys are used as hill climbs throughout compartment but especially here. natural gas pipeline	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
29	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	47.1	106	141-170	N/A	edge call. old comments confirmed. did not walk western 1/3 or north. too steep and water quality old Cedar, white pine, and birch directly adjacent to drain along drainage bottom. Oak, aspen, and red pine occupy the north and south aspects. White pine and balsam fir throughout understory. Hemlock is also present along the drainage in both the canopy and understory.																																																							
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30	3302 - Low Density Conifer Trees	Nonstocked	2.5		Immature	No	remote call, did not walk old Windthrown cedar pocket plus mortality. Scattered cedar seedlings under 3 ft tall. White pine is over 10 ft.																																																							
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31	4125 - Black, N. Pin Oak	Sapling Medium	59.4	15	Immature	N/A	comments confirmed. good mixed oak with pine and as. most areas are recruiting well. some browse pressure still Stand meets 75% canopy closure when oak under 3 ft is counted. Deer browse is occurring 1/4 of oak below 3 ft. Stand should grow past browse height in a few years and maintain good form.																																																							
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32	4121 - Oak, Aspen	Sapling Well	18.9	26	1-50	N/A	confirmed, pine component mostly jack5-spot method of cut. Harvested in 1998 under contract # 72-054-96-01 Seven Mile Patches. 14, one acre patches were placed systematically in a 1/2 by 1/2 mile area.																																																							
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33	4131 - Aspen, Oak	Sapling Well	6.3	26	1-50	N/A	confirmed added wo and wp to understory old Part of old stand 64. Good mix of oak and aspen. Some understory oak may still make it to the canopy.																																																							
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34	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	13.4	33	1-50	N/A	edge call, stand is in a steep ravine.																																																					
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35	4199 - Other Mixed Upland Deciduous	Poletimber Well	124.1	33	51-80	N/A	Oak present in canopy gaps and filling in Stand primarily Oak Northern pin and hybrid With occasional Aspen Clones Scattered throughout White Pine jackpine And red pine present in the understory in Trace Amounts Widely scattered but present Red Pine white pine and Jack Pine In the canopyOak is growing in clumps with 1 - 2 dominant stems obviuous. Aspen is in pockets with the largest being in the east. Oak is still present within aspen pockets. White pine appears to be older. Release from previous harvest. Contains ORV trail.																																																					
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36	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.9	106	111-140	N/A	AS has been dropping out clear cut this year of Entry no retention due to small size. Powerline access is Sandy Orv trail On North End Pipeline and ROW Specs																																																					
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37	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	12.9	5	1-50	N/A	regen is sparse with rm picking up to north. accept as is and let fill in naturally.old2021: Unit 1 of Comp 70 Oak Final Harvest 72-015-17. This was originally merged with stand 94. Stand 94 was the uncut portion. Scattered residual white pine, some advanced regen of jack pine and white oak. Could be coded as a u-type but overall canopy density meets requirements for a poorly stocked stand.																																																					
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<b>38</b>	4132 - Aspen, Jack Pine	Sapling Well	24.9	26	1-50	N/A	fully regenerated. some mixed pine in understory. primarily jackAspen/oak stand with oak in the understory. Low end for canopy closure but should fill in.																																																																						
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<b>39</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	36.7	26	1-50	N/A	Patches vary from Large sap Small pole. Regeneration varies in species composition Size and density. Canopy cover ranges from 25 to 100 percent. Mixed pine component wildly variable between five spotsPatch cut harvested in 1999, 153 acres. Jack pine filling in along edges. Oak is dense in some patches and more sparse in others with a few being dominated by aspen. All patches meet 50% canopy closure.																																																																						
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<b>40</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	72.9	5	Immature	N/A	Regeneration is better in the west than the East Mix of Aspen clones, oak and scattered conifer primarily Jack. Oak should continue to recruit.  Old Comments 2016 YOE: Comp 70 Oak Final Harvest 72-015-17. Cut in Fall of 2019. This stand was originally the same stand as 92 but because the sale was not completed, this stand is the harvested portion of the sale. The density of stems is variable with portions to the west less stocked, and moving east stocking increases significantly. Could be either MD1 or U-type. Oak and aspen seem to be establishing well. Scattered pole sized pine left.  OLD NOTES: Stand made up of pure oak and aspen pockets with jack pine scattered throughout. The jack pine has been dying out for awhile. Remaining individuals look unhealthy. Aspen is holding strong but is more than likely hollow. Understory oak are growing in pockets, mostly under aspen. White pine is recruiting into the canopy.																																																																						
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<b>41</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	50.7	39	51-80	N/A	North of Ravine has regenerated Scrubby Pin and hybrid Oak. Understory has Trace red pine And white oak And moderate Pin and hybrid oakoldGood formed oak for the most part. Aspen is smaller diameter than the oak and jack pine. Site index increases as you move south.																																																																						
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<b>42</b>	42260 - Natural Pine, Mixed Deciduous	Sapling Well	44.2	27	51-80	N/A	stand varies widely in species composition throughoutold commentsRed pine age is an average of 3 individuals (50 - 100 yrs). Jack pine occupies 2 age classes because advanced regeneration was protected during previous harvest. Scattered large diameter oak.																																																					
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<b>43</b>	4125 - Black, N. Pin Oak	Sapling Medium	117.7	15	Immature	N/A	Stand has regenerated to a dense mixed stand. NPO white oak, jp, aspen, rm, and cherry of variable density throughout. Locally higher rp regen in areas. 5 spots heavier to hybrid and pin oakold comments 2016 yoeLow canopy closure because of oak under 3 ft. Deer browse is minimal. Will grow to full stocking.																																																					
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<b>44</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	20.9	26	1-50	N/A	old comments confirmed. dbh updated. old comments 2016 YOEPatches are a good mix of deciduous and conifer species. Wildlife are utilizing patches for cover.																																																					
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<b>45</b>	310 - Herbaceous Openland	Nonstocked	29.2		Immature	4126 - White, Black, N. Pin Oak	similar to stand to east. areas with poor regen. most hardwood is not above browse height yet. should be moderately stocked next yoe. heavy to rm stump sprouts. oak lagging due to browse add monitoring reinventory. fix objective in mifi  old comments 2016 YOEHarvested under contract 72-014-17 Comp 70 Deciduous Final. This unit was cut 2019. Stand already has good regeneration in patches. Scattered White pine XLogs.  High ridge runs north/south in northern 2/3 of stand. 7 Mile Swamp is adjacent to most of this stand. Stand was deleted possibly as a result of migration to new system, stand data is taken from adjacent stand 49. Treatment is replicated from treatment report printed prior to the migration.																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**46** 310 - Herbaceous Openland Nonstocked 3.0 No Powerline/Gas line Right of Way.

**47** 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 52.0 15 Immature N/A

Old comments confirmed. Stand is dense, Overstory supercanopy rp variable density throughout with some ares regenerating rp. Aspen clones. Widely variable species composition. Oak and jack pine regeneration is thick. Single stem and clump oak present. Jack pine is putting on good growth and growing straight. Approximately 50% free to grow.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	20	Log	12	74	Red Pine	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	40	Sapling	2	15	White Oak	Medium	5 - 10 feet	Sapling
White Oak	10	Sapling	2		Jack Pine	Medium	< 5 feet	Seeding
Black Cherry	5	Sapling	2					
Bigtooth Aspen	5	Sapling	2					

**48** 4199 - Other Mixed Upland Deciduous Sapling Medium 22.7 4 Immature N/A

poor regen in northwest due to browse, and like influenced by old salvage in 2001 in this area. Stand regeneration overall is similar to adjacent harvests although a year younger. probably can merge all stands as long as regen meets objectives.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Sapling/Pole	1		Red Maple	Medium	< 5 feet	Sapling
Northern Pin Oak	10	Sapling	1		Bigtooth Aspen	Medium	< 5 feet	Sapling
White Pine	2	Sapling	1		Black/Red (Hybrid) Oak	Low	< 5 feet	Tall Shrub
Red Pine	2	Sapling	1					
Bigtooth Aspen	30	Sapling	1	4				
Jack Pine	1	Sapling	1					
Red Maple	35	Sapling	1	4				
White Oak	10	Sapling	1					

Harvested under contract 72-014-17 Comp 70 Deciduous Final. This unit of the sale was harvested 2020.

Old Comments 2016 YOE:  
North edge of stand is old stand 31. Canopy is converting to red maple. Jack pine will not last another ten years. Some oak is recruiting where canopy gaps are sufficient. 7 Mile Swamp adjacent.

**49** 4119 - Mixed Northern Hardwoods Sapling Poor 27.1 5 Immature N/A

some aspen clones but regeneration is primarily rm. scattered rp jp wp. most w/bl/npo are lagging behind due to browse. might recruit in 1 or 2 years. About 20% of stand lacks regeneration and other areas are sparse.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	2	Sapling	1		Red Maple	Medium	< 5 feet	Sapling
White Pine	2	Sapling	1		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Oak	10	Sapling	1		White Oak	Medium	< 5 feet	Sapling
Red Pine	2	Sapling	1		Bigtooth Aspen	Low	< 5 feet	Sapling
Red Maple	60	Sapling	1	5	Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
Bigtooth Aspen	14	Sapling	1					
Black/Red (Hybrid) Oak	10	Sapling	1	5				

old comments 2016 YOE  
Harvested under contract 72-014-17, Comp 70 Deciduous Final. Heavy deer browse along northern edges. Scattered XLog pines. Harvested 2019.

High ridge runs east west through north part of stand. Appears to be man made, old railroad grade. Wet areas along both sides of this ridge. Red oak and white pine are growing into the canopy along with some red maple. 7 Mile Swamp (deer yard) is to the north. Heavy deer feeding within this stand.

**50** 122 - Road/Parking Lot Nonstocked 4.4 No old comments confirmed Bissonette Rd.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
<b>51</b>	4125 - Black, N. Pin Oak	Sawtimber Well	11.7	106	81-110	N/A	Discuss stand at compartment review. Multiple undeaded easement And yard expansion trespass issues especially in Western corner of stand. My recommendation is to clear cut two inch and up Retaining all white oak and Conifer for visual along bissonnette Road. I would Place retention In the western portion of the stand even though it has small size just to avoid running equipment Through people's driveways and yards. Discuss if this is the correct thing to do or not at compartment review. If we are not going to cut this I recommend we dispose of it and let it be somebody else's problem.old comments 2016 yoeOak stand converting to a pine stand. East portion of this stand is on a 10 - 15% slope.																																																																
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<b>52</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	5.0	5	Immature	N/A	rm as npo bho wobc rp wp jp. rr grade in north. check treatment obj in mifi. About 60% canopy cover. mixed oak is mostly below 6 ft but should recruit. moderately browsed. Red pine left after harvest is 60% dead. No point in trying to salvage at this time. there is a clump of Black locust on west side of access road into stand.  old comments 2016 yoe Harvested under contract 72-014-21. Harvesting was completed in 2019. 10-20 BA of Red Pine left. Still too soon to see how the understory oak is responding to the overstory removal.  Good stocking of oak in the understory. Deer do not appear to be utilizing this stand for thermal cover.																																																																
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<b>53</b>	42250 - Pine, Oak	Poletimber Well	4.7	52	51-80	N/A	JP dropping out. small low volume small diameter stand other than a few rp and oak. hold until understory develops furtherold comments 2016 YOEOld pine plantation which was final harvested. Large diameter red pine where residual. Some red pine has seeded in. Mostly jack pine and oak.																																																																
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<b>54</b>	4125 - Black, N. Pin Oak	Sawtimber Well	30.6	110	111-140	N/A	Variable stand, Should regenerate well To a mosaic of Aspen and Oak With scattered conifer. Focus retention around some of the younger pockets of white pine or Red Pine. Sub canopy in West is filling into red maple. Locally high areas of White Pine regeneration throughout  old comments 2016 yoe Oak is of stump sprout origin, growing in clumps. Pockets of aspen and jack pine in the center of the stand. Jack pine is overtopped and staggated. Aspen is reaching its age limit for the site.																																																																
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<b>55</b>	122 - Road/Parking Lot	Nonstocked	7.1			No	Rea Rd.																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>56</b>	4125 - Black, N. Pin Oak	Sawtimber Well	40.2	62	111-140	N/A	Stand BA variable With Majority of Ba Between 120 and 160. 2 codominant hybrid Oak were cord and indicate ages Upwards of 70 both had rotten Piths. Some small openings in the canopy to the East With More Locally high densities of white pine And occasional Balsam fir Present. Aspen is dropping out of The stand quickly Probably should cut now For regeneration reasons wind and snow damage Primarily impacting Aspen Roughly five to Fifteen percent of the stand  Quality of Oak does not warrant thinning. Clear cut to regenerate Aspenware present if cut. Hawthorne and service Berry At low densities in the understory Along with Blueberry Huckleberry.  100 yards Of stand South of Wurt Smith Runway Will be clear-cut To prevent future conflicts with tree height and Runway approach That are mandated by federal aviation regulations.  Slope A long stand boundary between 61 picks up a wide range of Species transitioning into the lowland. Species include higher densities of spruce white pine Aspen Paper Birch And pockets of Northern White Cedar at seeps  old comments 2016 yoe Illegal driveways located west of Rea Rd. and to the south. Oak is mostly growing in clumps. Pockets of jack pine and aspen throughout this stand. 08/2018 Update: Part of stand 56 will be treated by variance: Final harvest all species, retention is in part of stand 56 that is not being treated. Purpose of treatment is to clear navigable airspace for runway approach, as required by Federal Aviation Regulation.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		2	Log	16		Serviceberry (Juneberry)		Low	5 - 10 feet	Sapling
Jack Pine		5	Pole/Log	8		Black/Red (Hybrid) Oak		Medium	Variable	Sapling
Bigtooth Aspen		20	Pole/Log	9		Hawthorn (spp.)		Medium	< 5 feet	Tall Shrub
White Oak		3	Log/Pole	10		White Pine		Medium	Variable	Sapling
Black/Red (Hybrid) Oak		70	Log/Pole	11	62	White Oak		High	Variable	Sapling

<b>57</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	11.2	35	1-50	N/A	small pole stand well stockedStand has a clump of countifer in the East otherwise primarily Oak			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		40	Pole/Sapling	5	35	Huckleberry		Low	< 5 feet	Tall Shrub
White Oak		10	Sapling	4						
Bigtooth Aspen		25	Pole/Sapling	6	35					
Jack Pine		5	Sapling	4						
Balsam Fir		5	Pole/Sapling	5						
White Pine		5	Pole/Sapling	6						
Red Maple		10	Sapling	3						

<b>58</b>	4125 - Black, N. Pin Oak	Sawtimber Well	3.4	106	81-110	N/A	Black Oak With developing white pine understory And scattered Aspen And red Maple. Stan should regenerate Fairly well. Transition from upland to lowland. Pipeline along east edge of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		25	Pole/Log	8		Black/Red (Hybrid) Oak		Medium	Variable	Sapling
Black/Red (Hybrid) Oak		65	Log/Pole	13	106	Balsam Fir		Medium	Variable	Sapling
Northern White Cedar		10	Log/Pole	10		White Pine		High	Variable	Sapling

<b>59</b>	310 - Herbaceous Openland	Nonstocked	13.6		Immature		Check if this stand needs a Chopping mastication Burning or other non-forested treatment On it Old comments confirmedold comments 2016 yoeOld lease by Wurtsmith Air Base from the State of Michigan for part of an air field. No longer valid. SE corner appears to be an old gravel pit.
Sub-Canopy Species		Density	Avg. Height	Size			
Witch Hazel		Trace	5 - 10 feet	Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>60</b>	4125 - Black, N. Pin Oak	Sawtimber Well	16.3	106	81-110	N/A	Stan should be clear-cut Operational Portions of stand Up to slope break. Leave all white oak and white pine for Greenup concerns And to increase within stand and within area diversity. Sapling red maple throughout understoryold comments 2016 yoeGood mix of aspen, oak, and pine. Snowmobile trail #96 runs through this stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5	Pole/Log/Sap	9		White Pine	Medium		Variable	Sapling
White Oak	15	Log	16		White Oak	Medium		Variable	Sapling
Red Pine	10	Log/XLog	17		Black/Red (Hybrid) Oak	Low		Variable	Sapling
Bigtooth Aspen	10	Log	11		Nannyberry	Low	5 - 10 feet	Tall Shrub	
Black/Red (Hybrid) Oak	60	Log	14	106	Red Maple	Medium	10 - 20 feet	Sapling	
<b>61</b>	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	7.7	52	1-50	N/A	cedar and black spruce visible across edge of stand cattail understory confirmed.old commentsCattail throughout understory. Snow is limiting. May be more seedlings present than currently visible. Stocking levels decrease towards the west.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Tamarack	15	Pole/Sapling	5	52	Tamarack	Medium		< 5 feet	Sapling
White Pine	5	Pole/Sapling	5	52	Black Spruce	Medium		< 5 feet	Sapling
Black Spruce	35	Sapling	3	52	Northern White Cedar	Medium		< 5 feet	Sapling
Northern White Cedar	45	Sapling	3	52					
<b>62</b>	6122 - Black Spruce	Poletimber Poor	13.2	95	1-50	N/A	remote call did not walk. old comments and stand data carried forward through edge callold comments:Black spruce/cedar stand. Black spruce is more dominant to the west. Growth and overall health are poor within this stand because of a yearly high water table. Sparse pockets with a cattail understory are mixed in with denser pockets with a spruce understory. Scattered log size white pine are present within this stand but most of died out.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	65	Pole	6	95	Northern White Cedar	Low		Variable	Sapling
Tamarack	2	Pole	6		White Pine	Low		5 - 10 feet	Sapling
Northern White Cedar	33	Pole	7	95	Black Spruce	Medium		Variable	Sapling
<b>63</b>	4124 - Red with White Oak	Sapling Well	16.7	16	Immature	N/A	Stand has regenerated to a mixed Oak With Upland deciduous And a minor countifer component. Conifers are primarily in the understoryold comments 2016 yoeSome balsam fir and red maple left from previous harvest. Oak regeneration is heavy within this stand along with veins of aspen. Portions of this stand are still below 3 ft but should grow above browse height.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Sapling	4		Red Osier Dogwood	Low		5 - 10 feet	Tall Shrub
Red Oak	40	Sapling	2	16	Black/Red (Hybrid) Oak	Medium		< 5 feet	Seeding
Bigtooth Aspen	20	Sapling	2	16	White Spruce	Low		Variable	Sapling
White Oak	27	Sapling	2	16	White Pine	Trace		Variable	Sapling
Balsam Fir	5	Pole/Sapling	5						
Paper Birch	3	Sapling	1						
<b>64</b>	310 - Herbaceous Openland	Nonstocked	7.3		Unspecified	412 - Oak Types	Update Lovelace Harvested in 2019 under contract Comp 70 South Mix 72-009-17 (2).		





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>65</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	39.4	112	81-110	N/A	Edge call. cedar black spruce, sphagnum, some balsam fir and tamarack. good hemlock component in places. windthrow observed along edge. Treatment from last YOE was terminated. Treatment was to Femelschlag the stand under a scaled sale. Stand is too wet with poor access.  old comments Cedar/black spruce swamp. Part of lowland area that surrounds Allen Lake. Cedar varies in size with proximity of water table to the surface. Tag alder becomes visible in these areas. Heavy deer use during winter months for thermal cover.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		41	Pole/Log	9	112	Balsam Fir		High	Variable	Sapling	
Black Spruce		30	Pole/Log	8		Black Spruce		Low	Variable	Sapling	
White Pine		1	Log/Pole	10							
Balsam Fir		15	Pole	8							
Hemlock		5	Log/Pole	10							
Tamarack		3	Pole/Log	8							
Red Pine		1	Log/Pole	10							
Red Maple		2	Log	12							
Paper Birch		2	Pole	6							
<b>66</b>	6139 - Mixed Lowland Forest	Poletimber Medium	7.1	55	1-50	N/A		heavy blow down in overstory cedar left as residual in previous harvest. I observed heavy blow down of most conifer along western edge. edge call. stand probably no longer meets 2 aged requirements due to windthrow. stand appears to have a good mix of cedar regeneration with the black spruce and balsam fir from edge. old comments Lowland stand. Harvested 45 years ago. Left individual and patches of cedar along with scattered maple and birch. Ash regeneration was not heavy and is experiencing mortality due to EAB.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Black/Red (Hybrid) Oak		1	Pole/Log	9		Balsam Fir			Medium	< 5 feet	Sapling
Red Maple		10	Pole/Sap/Log	6		White Spruce			Low	5 - 10 feet	Sapling
Paper Birch		20	Pole	8							
Balsam Poplar		2	Pole/Sapling	5							
Balsam Fir		34	Pole/Sapling	5	55						
Black Spruce		15	Pole	5							
Northern White Cedar		18	Pole/Sap/Log	9	112						
<b>67</b>	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	43.7	102	111-140	N/A	Low end of canopy range due to ash dropping out. Hold at least ten, heavy interface with water table and exceptional site for region. large healthy hemlock present throughout. potential reference area. bf in larger canopy gaps. minimal understory development. Ash has fallen out. Balsam fir picks up in wetter ground to the N of stand. Scaled sale treatment terminated in NE of stand, and Femelschlag treatment terminated in the central portion of stand due to multiple site conditions not conducive to harvest at this time. Old Comments 2016 YOEMix of solid ground and forested drains. This variety in the soil along with near by seed sources causes the species diversity present. Sugar maple and beech are also present in this stand. Water is present year round in drains. This is also where ash and cedar components are the heaviest. The ash is over 50% dead resulting in its low canopy percentage.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		5	Pole	8		Red Oak		Low	Variable	Sapling	
Northern White Cedar		10	Log	10		Green Ash		Medium	Variable	Sapling	
Basswood		5	Log	13		Red Maple		Medium	Variable	Sapling	
Swamp White Oak		2	Log	14		Balsam Fir		High	>20 feet	Pole	
Paper Birch		5	Log	10							
Beech		1	Sapling/Pole	4							
Hemlock		15	Log	12							
Red Oak		13	Log	14							
Sugar Maple		10	Pole/Log	8							
Red Maple		18	Log	10	102						
Green Ash		1	Log	10							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
<b>68</b>	6120 - Lowland Cedar	Sawtimber Well	1.0	112	111-140	N/A	edge calloldCedar pocket with paper birch along the bottom of a steep ridge.																																																													
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<b>69</b>	6230 - Cattail	Nonstocked	3.3		Unspecified	No	edge, ask joan 2hat to do about grant funded work for invasives. confirm3d old comments from edge																																																													
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<b>70</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	2.3	112	141-170	N/A	some windthrow with little understory development in openings. barberry observed in stands east along pipelineold comments 2016 YOELowland conifer stand along the bottom of a steep ridge.																																																													
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<b>71</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	23.8	114	51-80	N/A	This portion of stand was untreated due to natural rivers zoning and water quality BMP's. The treated portion, Stand 95 has been split out. Return if I have time to update stand data here. From memory, canopy percentages are notably different from 95.Update Lovelace: Stand harvested under contract 72-009-17 Comp 70 South Mix. All Specs were met. Areas of heavy slash. Minimal to no rutting. Roundwood operation. Cut Fall/Winter 22-23.old comments.Northern hardwood stand with a southern floodplain component in lower areas. A forested drain runs through the north portion of this stand. Beech and oak become more prevelant towards the river with red maple and birch increasing to the north. Sugar maple is mostly even aged but older individuals are scattered throughout the stand. A younger age class is in the sub-canopy. Hemlock appears to be healthy. White ash has mostly died out of this stand. Expect large coarse woody debris in a few years which may promote yellow birch and hemlock as well as a unevenaged structure.																																																													
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72	4119 - Mixed Northern Hardwoods	Sawtimber Medium	12.0	108	81-110	N/A	find corners or request survey. very limited understory development. pipeline is only access and hill from south into stand is steep. discuss treating stand. large component of large cwd in stand from ash dropping out. large diameter sm, basswood and beech present. BA widely variable. barberry observed in stand. if not treated this yoe should probably try next yoe before maple significantly declines. difficult access. pipeline will need contacted so they adequately armor prior to operations. 1-800-363-9541. protect hemlock no evidence of bbd on legacy individual. saplings are suppressed where present. very little understory development. spray for barberry here and stand to the west																																																																										
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73	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	17.2	106	111-140	N/A	needs harvested. declining asp3n. low quality poor form pin and hybrid oak with a handful of higher quality dominant hybrid scattered. subcanopy wp and rp heavily impacted by snow damage, broken, tipped, or uprooted. hemlock present in the understory throughout much of the area on top of the hill. should be protected. mark to leave wp rp and wo. and maybe a few better ro. county cycle trail in the south. pipeline on east edge. old comments 2016 yoeOak stand along the top of the AuSuable River floodplain. A steep ridge runs along the north edge of this stand. River Rd. along the south.																																																																										
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74	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	11.9	108	141-170	N/A	low end of canopy range. regeneration has not yet met recruitment height. browse pressure observed. some areas have low stocking for regenUpdate Lovelace Thinned 2020 under contract Comp 70 South Mix 72-009-17 (2)  Hardwood stand along the AuSable River. Southern floodplain species are not present within this stand.																																																																										
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75	6233 - Wet Meadow	Nonstocked	1.6		Unspecified	No	edge old comments confirmed																																																																										
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76	500 - Water	Nonstocked	1.0			No	edge callold commentsSmall pond with a mixture of grasses and shrubs growing along its edge.																																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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77	500 - Water	Nonstocked	21.2			No	AuSable River
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78	122 - Road/Parking Lot	Nonstocked	3.6			No	River Rd.
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79	310 - Herbaceous Openland	Nonstocked	1.9			No	Powerline/Gas line Right of Way.
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80	3301 - Low Density Deciduous Trees	Nonstocked	4.2		Immature	No	ox bow created by ausable. edgeold commentsSmall island of trees surrounded by grass, shrubs, and water.
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Sub-Canopy Species	Density	Avg. Height	Size
Basswood	Low	Variable	Log
American Elm	Low	Variable	Log

81	4310 - Pine, Oak Mix	Sawtimber Poor	32.4	106	51-80	N/A	Stand harvested recently. No regen observed yet in cut portions of Femelschlag. Add new monitoring treatment reinventory.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	15	Log	10	
White Oak	10	Log	13	
Black/Red (Hybrid) Oak	35	Log	13	106
White Pine	25	Log/Pole/XLog	11	
Red Pine	10	Log	18	
Bigtooth Aspen	5	Log	11	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	Medium	10 - 20 feet	Pole

Update Lovelace: Stand harvested under contract 72-009-17 Comp 70 South Mix. All Specs were met. Areas of heavy slash. Minimal to no rutting. Roundwood operation. Cut Fall/Winter 23.

Old Comments 2016 YOE  
White pine succeeding oak and associated pine canopy. Red pine has seeded in from super canopy as well. Site quality increases from east to west.

82	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	21.1	106	51-80	N/A	harvested portions are filling in at variable density. expect a mix of wp pockets with as-rm-oakUpdate Lovelace: Stand harvested under contract 72-009-17 Comp 70 South Mix. All Specs were met. Areas of heavy slash. Minimal to no rutting. Roundwood operation. Cut 2020
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	15	Pole/Log	9	
Red Maple	10	Pole	8	4
Black/Red (Hybrid) Oak	35	Log	11	106
White Pine	35	Pole/Sap/Log	9	51

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	High	5 - 10 feet	Sapling
Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Aspen (spp.)	Medium	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling

Old Comments. 2016 YOE  
White pine succeeding the oak canopy. Oak is declining in vigor.

83	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	8.2	106	111-140	N/A	Some exceptional individual legacy trees. little evidence of regeneration around windfall jackstraw in center. Japanese barberry observed
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Canopy Species	% Cover	Size Class	DBH	Age
American Elm	5	Pole	8	
Basswood	30	Pole/Log	8	106
Red Maple	25	XLog/Log	20	
Hemlock	5	Log/Pole	12	
Northern White Cedar	5	Log/Pole	10	
Paper Birch	15	Pole/Sap/Log	6	
Cottonwood	15	XLog	30	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Green Ash	Medium	5 - 10 feet	Sapling
Prickly Ash	Medium	< 5 feet	Tall Shrub
Paper Birch	Low	5 - 10 feet	Sapling
Basswood	Medium	10 - 20 feet	Sapling

old comments:  
Stand was historically dominated by ash and elm species. EAB and DED has since altered the species composition percentages in the canopy. These two species however remain dominant in the understory. A small drainage runs through the east portion of this stand. JC update: A dense patch of phragmites was herbicided in 2016 (C72-653) in the SW peninsula. H72-746 will replace C72-653 and also include additional invasives found during 2016 YOE inventory.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																	
<b>84</b>	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	11.5	150	171-200	N/A	old comments confirmed. only operable portion is around the overlook before stand drops down. consider cutting aspen red maple and oak out with the stands to the east. protect legacy pines and consider retaining all wp and rp. serviceberry. did not walk down the hill into stands north																																																																																	
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<b>85</b>	4319 - Mixed Upland Forest	Sawtimber Well	4.8	160	141-170	N/A	difficult access. exceptional site, site condition for preservation																																																																																	
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<b>86</b>	42290 - Natural Mixed Pine	Sawtimber Well	6.5	106	81-110	N/A	cut operable portions of this stand with 89 oak is declining. discuss retention and leaving large rp and wp. county cycle trail to south. consider placing retention around pole wp, rp, and oak. legacy check. powerline to east. poor form and quality hybrid/pin oak old comments 2016 YOEMost of stand is on a steep ridge. Transition from uplands to lowlands. Super canopy of red and white pine. Cedar is present both at the bottom and at the top of the slope. Natural mixed pine understory.																																																																																	
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Red Pine	Low	10 - 20 feet	Sapling																																																																																					
Jack Pine	Low	Variable	Sapling																																																																																					
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<b>87</b>	500 - Water	Nonstocked	4.4		Unspecified	No	old comments confirmed  old comments Back flow or spring connected to the AuSable River. Water present year round.																																																																																	
<b>88</b>	310 - Herbaceous Openland	Nonstocked	3.3			No	Powerline and gas line right of way.																																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**89**    4310 - Pine, Oak Mix    Sawtimber Well    10.2    106    81-110    N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	10	Log	10	
White Pine	30	Pole/Log	9	
Black/Red (Hybrid) Oak	40	Log/Pole	12	106
Red Pine	15	Log	10	
Jack Pine	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	High	10 - 20 feet	Pole
Red Pine	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling

Treatment was delayed last YOE. oak is beginning to decline. ?Protect Pine Regen? discuss at comp review. include operable portions of stand 86

Old Comments 2016 YOE  
White and red pine succeeding oak canopy. Oak experiencing mortality because of age and site quality.

**90**    4199 - Other Mixed Upland Deciduous    Sapling Medium    27.2    5    Immature    N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	25	Sapling	1	5
Bigtooth Aspen	20	Sapling	1	
Red Maple	20	Sapling	1	
Black/Red (Hybrid) Oak	25	Sapling	1	5
Pin Cherry	10	Sapling	1	

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

Stand Southwest Corner Has Aspen Red Maple Oak with a witch hazel understory. The remainder of the stand is widely variable in density. Comprised of Black and pennile With locally High Pockets of red maple And Aspen clones. Widely scattered Jack Pine white pine and red pine regeneration present as well

old comments 2016 yoe  
Stand cut in Timber sale 72-020-18 by T.R. Timber. Sale closed on 5/25/2019.

Illegal driveways located west of Rea Rd. and to the south. Oak is mostly growing in clumps. Pockets of jack pine and aspen throughout this stand. 08/2018 Update: Part of stand 56 will be treated by variance: Final harvest all species, retention is in part of stand 56 that is not being treated. Purpose of treatment is to clear navigable airspace for runway approach, as required by Federal Aviation Regulation.

**91**    4199 - Other Mixed Upland Deciduous    Sawtimber Well    52.0    106    81-110    N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	18	Log	10	
Red Oak	10	Log	15	
Black/Red (Hybrid) Oak	30	Log	13	106
Red Pine	2	Log/Pole	13	
Bigtooth Aspen	20	Log/Pole	13	
White Oak	10	Log	14	
White Pine	10	Log/Pole/Sap	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
White Pine	Low	Variable	Sapling
Red Oak	Medium	Variable	Sapling

cc this stand. leave xlog wp and rp. Mark to leave 5 to 10 decent wo for mast. exclude wet areas in south and slopes. expect regen heavier to rm in areas due to absent aspen in areas. walk n half and exclude topography from tx. East West finger has an intermittent drainage present and is too steep to cut. This area has some higher quality Aspen and Oak than Adjacent stands.

Old Comments 2016 YOE:  
High ridge runs east west through north part of stand. Appears to be man made, old railroad grade. Wet areas along both sides of this ridge. Red oak and white pine are growing into the canopy along with some red maple. 7 Mile Swamp (deer yard) is to the north. Heavy deer feeding within this stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
<b>92</b>	4125 - Black, N. Pin Oak	Sawtimber Well	56.4	100	81-110	N/A	old sale boundary lines are still visible and are too far down slopes in NE. repaint and update shapefile to exclude eastern AS clone blowdown as retention. Consider blacking out retention to North And utilizing Eastern blow down area instead. Only utilize what is needed for certification for retention site condition code remaining exclusions as too steep.  2021: Stand was originally under contract 72-015-17 Comp 70 Oak Final Harvest but this portion of the sale was uncut due to the sale being turned back in. Parent stand of stand 40. Will monitor health of the oak until re-inventory. Should hold until then.  Old Comments 2016 YOE: Stand made up of pure oak and aspen pockets with jack pine scattered throughout. The jack pine has been dying out for awhile. Remaining individuals look unhealthy. Aspen is holding strong but is more than likely hollow. Understory oak are growing in pockets, mostly under aspen. White pine is recruiting into the canopy.																																																												
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<b>93</b>	4125 - Black, N. Pin Oak	Sawtimber Well	8.8	120	81-110	N/A	edge call. old comments confirmed. most of stand is too steep. cut operable portions of southern 93 with stand 92 to southoldContains old stands 25 and 80. Transition from upland oak to conifer swamp. White pine is the primary understory species. It is most dense towards the center of this stand, which is the lowest elevation. Oak is solid, minimal rot. Site index is lowest to the south. Stand has a grade of 5 - 15%																																																												
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<b>94</b>	4125 - Black, N. Pin Oak	Sawtimber Well	22.4	120	81-110	N/A	aspen dropping out. needs cut where operable.old2021: Originally merged with stand 37 to the south. This portion was uncut under contract 72-015-17 Comp 70 Oak Final Harvest. This is the parent stand to stand 37. Will monitor Oak in the stand, but should be able to hold until next inventory cycle.  Contains old stands 25 and 80. Transition from upland oak to conifer swamp. White pine is the primary understory species. It is most dense towards the center of this stand, which is the lowest elevation. Oak is solid, minimal rot. Site index is lowest to the south. Stand has a grade of 5 - 15%																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**95** 4111 - S.Maple, Hard Mast Association Sawtimber Medium 22.0 114 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	2	Log/Pole	9	
Beech	3	Log	14	
Red Maple	5	Log	14	
Sugar Maple	58	Log	14	114
Red Pine	5	XLog/Log	20	
Hemlock	2	XLog/Log	19	
Basswood	5	Log	13	
Red Oak	20	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Sugar Maple	Medium	Variable	Sapling
Hemlock	Low	>20 feet	Pole

Areas with some heavier slash loading from recent harvest. minimal regeneration observed during site visit. monitoring treatment closed out with new monitoring reinventory added due to recent harvest and no recruited regeneration at this time. Update Lovelace: Stand harvested under contract 72-009-17 Comp 70 South Mix. All Specs were met. Areas of heavy slash. Minimal to no rutting. Roundwood operation. Cut Fall/Winter 22-23. old comments. Northern hardwood stand with a southern floodplain component in lower areas. A forested drain runs through the north portion of this stand. Beech and oak become more prevalent towards the river with red maple and birch increasing to the north. Sugar maple is mostly even aged but older individuals are scattered throughout the stand. A younger age class is in the sub-canopy. Hemlock appears to be healthy. White ash has mostly died out of this stand. Expect large coarse woody debris in a few years which may promote yellow birch and hemlock as well as a unevenaged structure.