



# Compartment Review Presentation

## Cadillac Forest Management Unit

Compartment 63062

Entry Year 2026

Acreage: 1,985

County Wexford

Management Area: Kalkaska Sandy Moraines

**Stand Examiner:** Joel Taylor

### Legal Description:

T24N R12W: Sections 6-8, 16-18.

### Identified Planning Goals:

Vegetative management in the Benzie Moraines management area (MA) will produce various forest products; maintain or enhance biodiversity conservation and wildlife habitat; protect areas of unique character and threatened, endangered and special concern species; provide for forest-based recreational uses; and Native American non-commercial use of forest products. Timber management for this 10-year planning period includes improving the age-class structure of aspen and red pine and continued selection harvesting in high-quality northern hardwoods to achieve an all-age structure. Wildlife management objectives include increasing the structural complexity of northern hardwood communities for interior forest species and perpetuating early-successional communities for species adapted to young forests. Expected trends within this 10-year planning period are forest pest issues, particularly beech bark disease and emerald ash borer and an increase in recreational trail use.

### Soil and topography:

Soils include Kalkaska and Roscommon types. Terrain is mostly flat in the Harlan Swamp with several upland ridges at the headwaters of Fletcher Creek. Topography becomes more rolling with some steep slopes in the central part of Section 8, and to the southeast in Section 16 adjacent to Fletcher Creek.

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

The Compartment is surrounded mostly by private land, with some state land bordering to the south and west. There is a matrix of private lands within the compartment boundary, including a portion of the Mesick School Forest. Consumers Power owns a 330' wide swath of land that cuts across Section 6. This includes the cleared right-of-way, as well as a portion of the forested area to the north and west.

### Unique Natural Features:

There is potential for Woodland Vole to the northwest of this Compartment. Other features include the Harlan Swamp and the headwaters of Fletcher Creek.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

Maintain vegetated buffers along all water courses and lowland sensitive sites.

### Watershed and Fisheries Considerations:

Fletcher Creek, a tributary to the Manistee River, originates in Compartment 62. Fletcher Creek is a Designated Trout Stream, holding mostly brook trout, along with a few brown trout and rainbow trout. The Natural Rivers plan for the Manistee River calls for a 50' natural vegetation buffer along all tributaries, so any timber management should take place outside of that zone.

### Wildlife Habitat Considerations:

Greater emphasis should be placed on promoting larger stands of older age and mixed age classes to provide diversity in vertical and horizontal structure in this compartment. In addition, this compartment contains a portion of Harlan Swamp, an important wildlife area. Generally, wildlife cover type goals are no net loss in aspen or oak acres, to protect mast bearing shrubs, to create brush piles adjacent to wetlands, to preferably leave retention in the form of islands or corridors, and to provide coarse woody debris. Featured species of special interest are marten, bear, deer, red-shouldered hawk, black-throated blue warbler, and wood thrush. (E. Victory 7/18/14)

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

Surface sediments consist of an end moraine of coarse-textured glacial till and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have an economic use. A gravel pit is located one mile to the south and potential is good. This area is located in the prolific Silurian Niagaran reef trend. Several reefs are producing

and additional wells are permitted to be drilled. Approximately half of the State lands are leased for oil and gas exploration. (Tom Hoane 4/26/2004).

**Vehicle Access:**

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

**Survey Needs:**

Adequate corners at this time.

**Recreational Facilities and Opportunities:**

There are no developed recreational facilities within this compartment. There are numerous opportunities for dispersed camping, hunting, and fishing (Fletcher Creek). (T.M.N. 3/14).

**Fire Protection:**

Much of the area in this compartment has poor access and low fire potential. The areas of pine could provide for more intense fires. The gas wells within the compartment and deer enclosures on adjacent private land could be a problem for fire suppression. BET5-14

**Additional Compartment Information:**

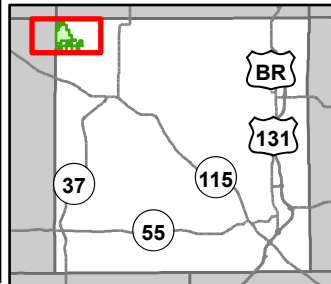
**The following reports from the Inventory are attached:**

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

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

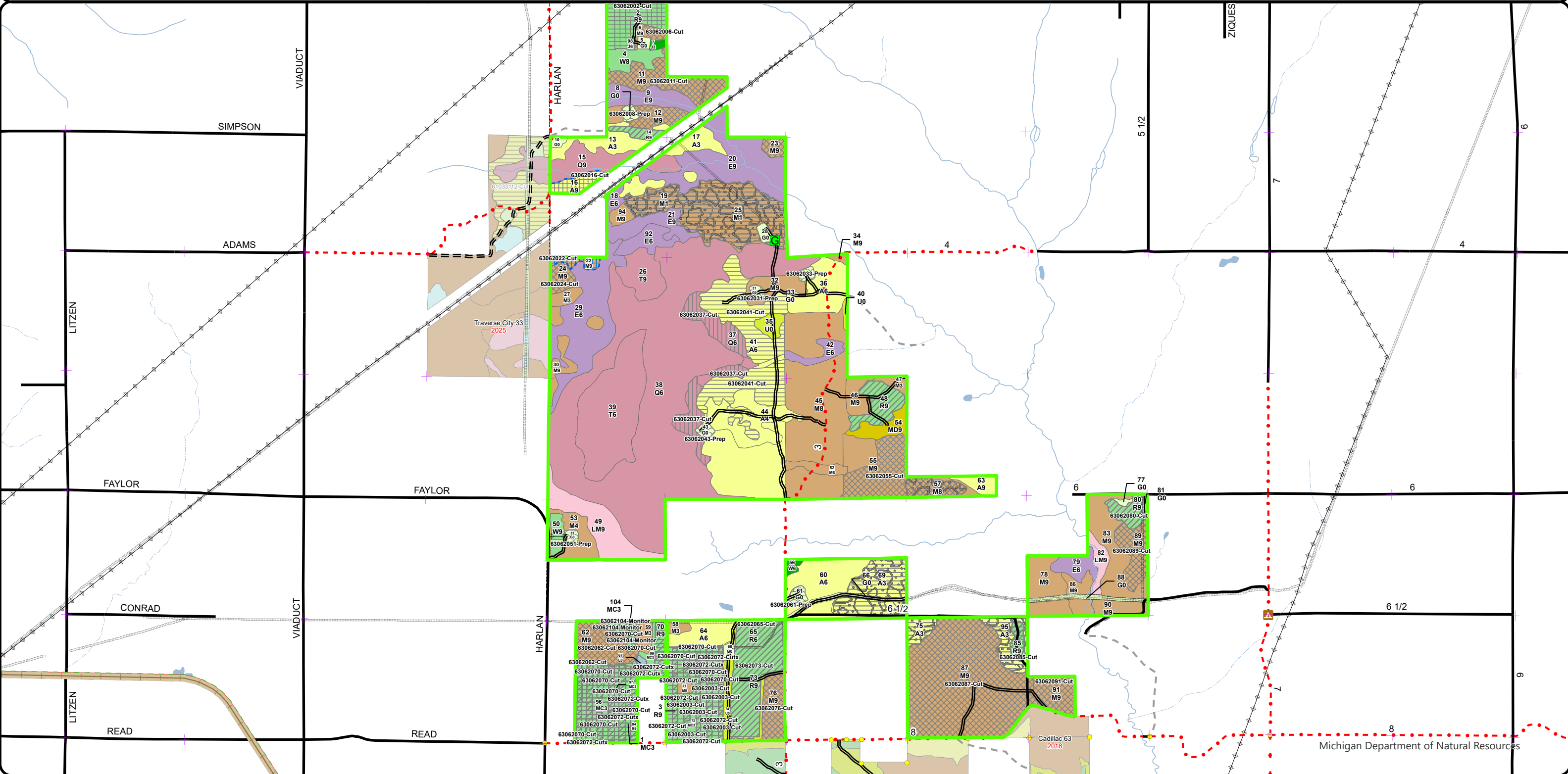
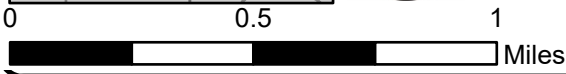
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

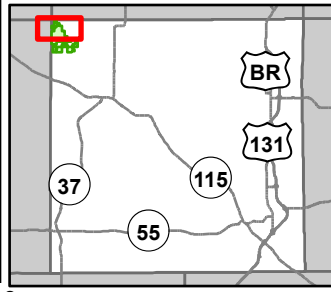


Compartment: 63062  
 T24N, R12W, Sec: 6-8, 16-18  
 County: Wexford  
 Unit: Cadillac  
 Mgmt Area: Kalkaska Sandy Moraines  
 YOE: 2026  
 Acres: 1985.5 GIS Calculated  
 Examiner: Joel Taylor  
 Map Revised: 7/18/2024  
 Map Phase: Web Post

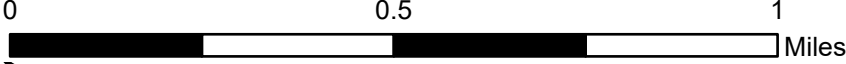
- |                                       |                                 |                                   |                                 |                            |
|---------------------------------------|---------------------------------|-----------------------------------|---------------------------------|----------------------------|
| Gate                                  | Intermittent Stream             | Selection (Group, Single Tree)    | Selection (Group, Single Tree)  | 613 - Lowland Mixed Forest |
| Campground                            | Lake/Pond                       | Clearcut (w/Reserves)             | Regeneration Survey             | 310 - Herbaceous Openland  |
| Survey Grade Corners                  | Perennial River                 | Seed Tree (w/Reserves)            | 411 - Northern Hardwood         | 330 - Low Density Trees    |
| Remunemented Section Corners          | Lakes and Rivers                | Thinning (Crown, Low, Systematic) | 413 - Aspen Types               | 622 - Lowland Shrub        |
| DNR - Secondary Forest Road           | Pipeline                        | Regeneration Survey               | 419 - Mixed Upland Deciduous    | Designated Bicycle Trails  |
| DNR - Forest Access Route             | Powerline                       | Shelter Wood (w/Reserves)         | 421 - Planted Pines             |                            |
| Federal / State / County - Paved Road | Compartment Boundary            | Site Prep                         | 422 - Natural Pines             |                            |
| County - Gravel Road                  | Counties                        | Clearcut (w/Reserves)             | 611 - Lowland Deciduous Forest  |                            |
| Private - Dirt / Gravel Road          | Treatments with Site Conditions | Thinning (Crown, Low, Systematic) | 612 - Lowland Coniferous Forest |                            |



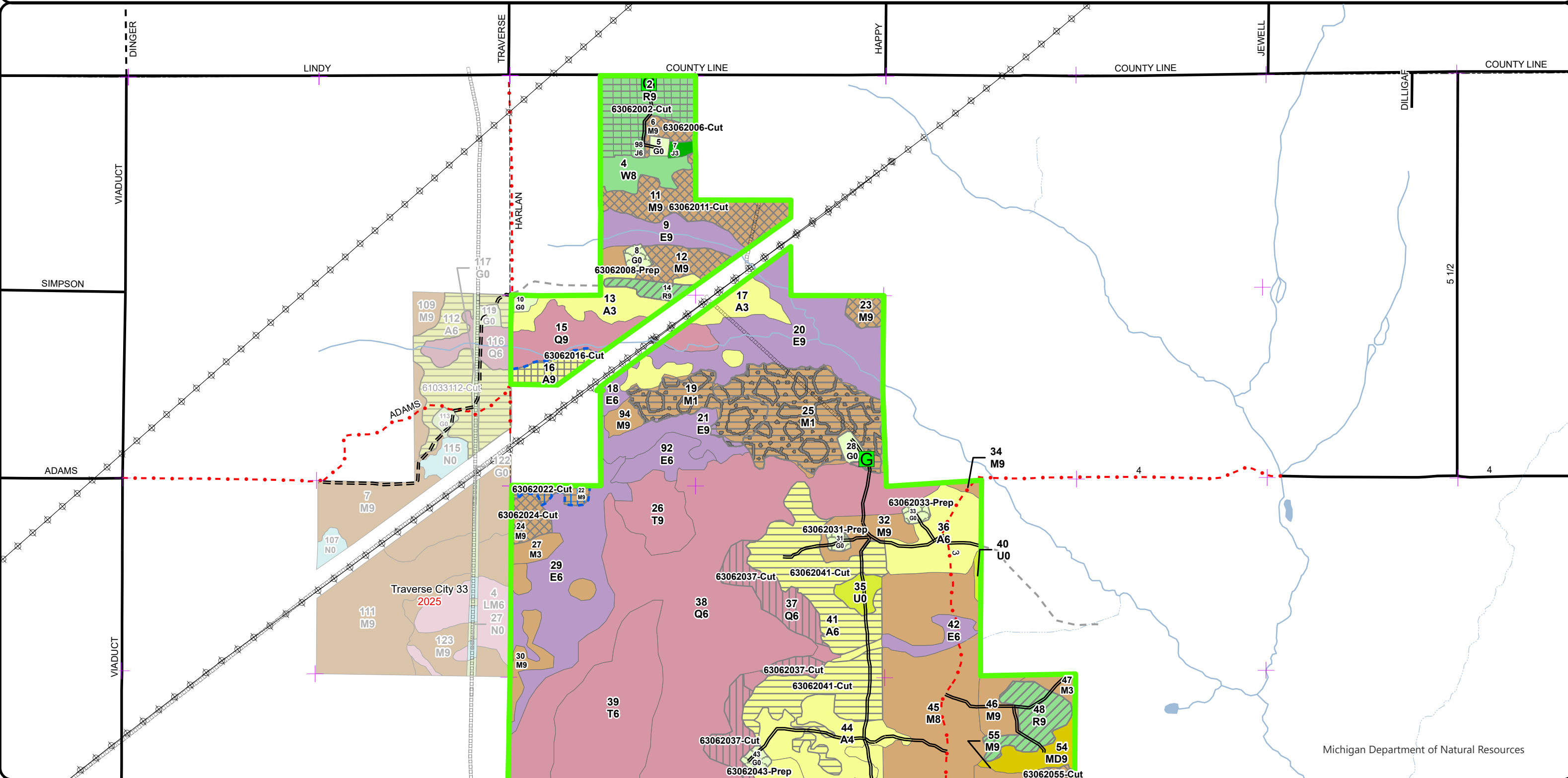
Cover Type & Treatments Map



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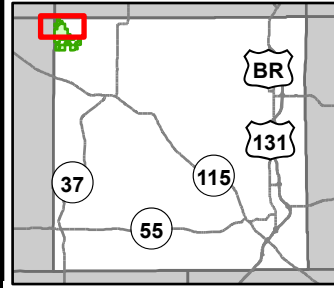
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| Intermittent Stream                   | Selection (Group, Single Tree)  | 411 - Northern Hardwood           |                                 |





Stand Boundary Map

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0 0.5 1 Miles



Gate



Remonumented Section Corners

— DNR - Secondary Forest Road

= = = DNR - Forest Access Route

— Federal / State / County - Paved Road

- - - Federal / State - Dirt / Gravel Road

- . . . County - Gravel Road

- - - Private - Dirt / Gravel Road

--- Intermittent Stream

— Lake/Pond

— Perennial River

Lakes and Rivers

□ Pipeline

⊕ Powerline



Compartment Boundary



Counties



Stand Boundaries

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422 - Natural Pines

611 - Lowland Deciduous Forest

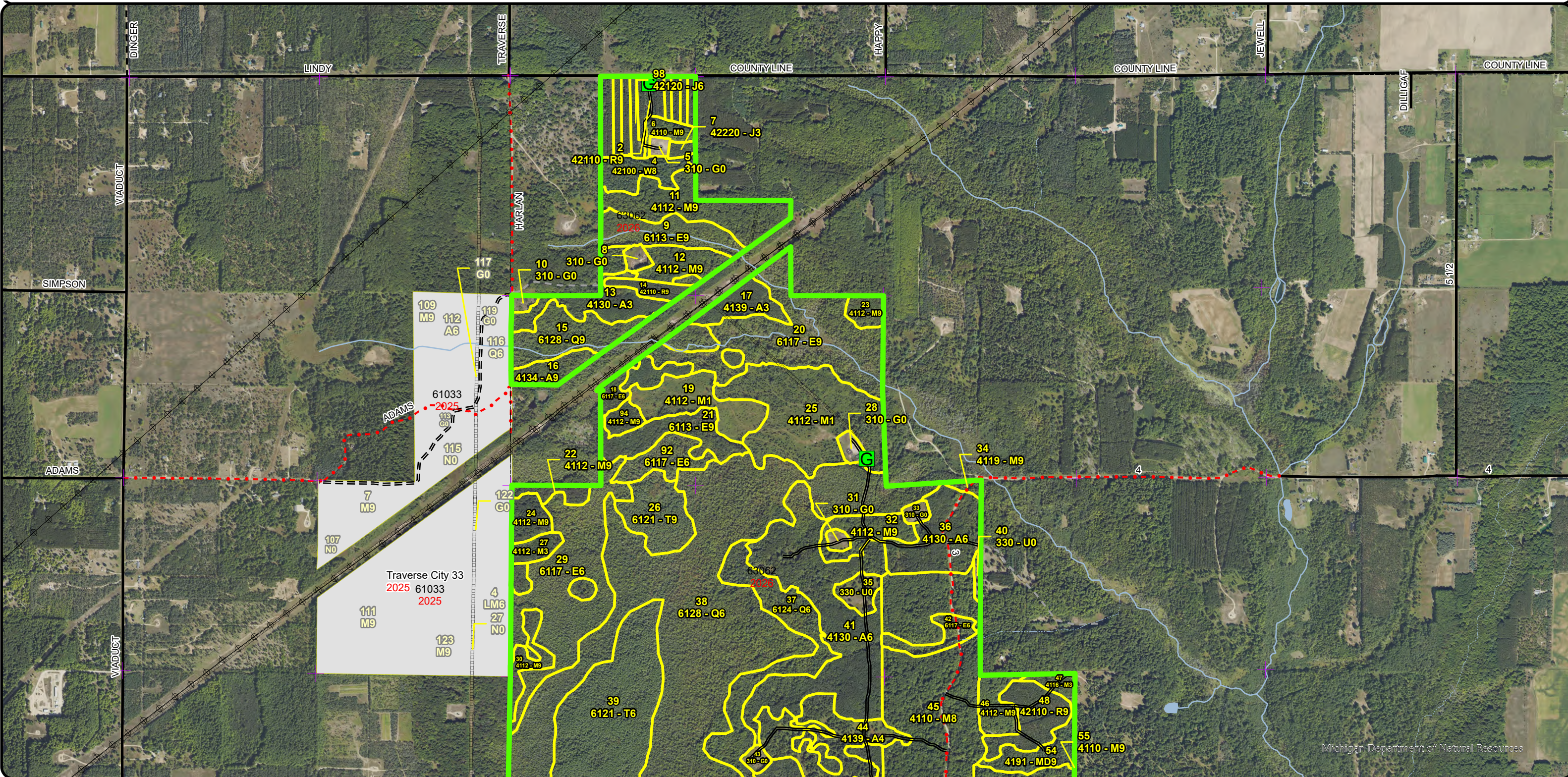
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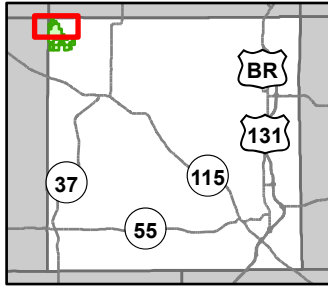
State Forests





**Special Conservation Areas  
& Site Conditions Map**

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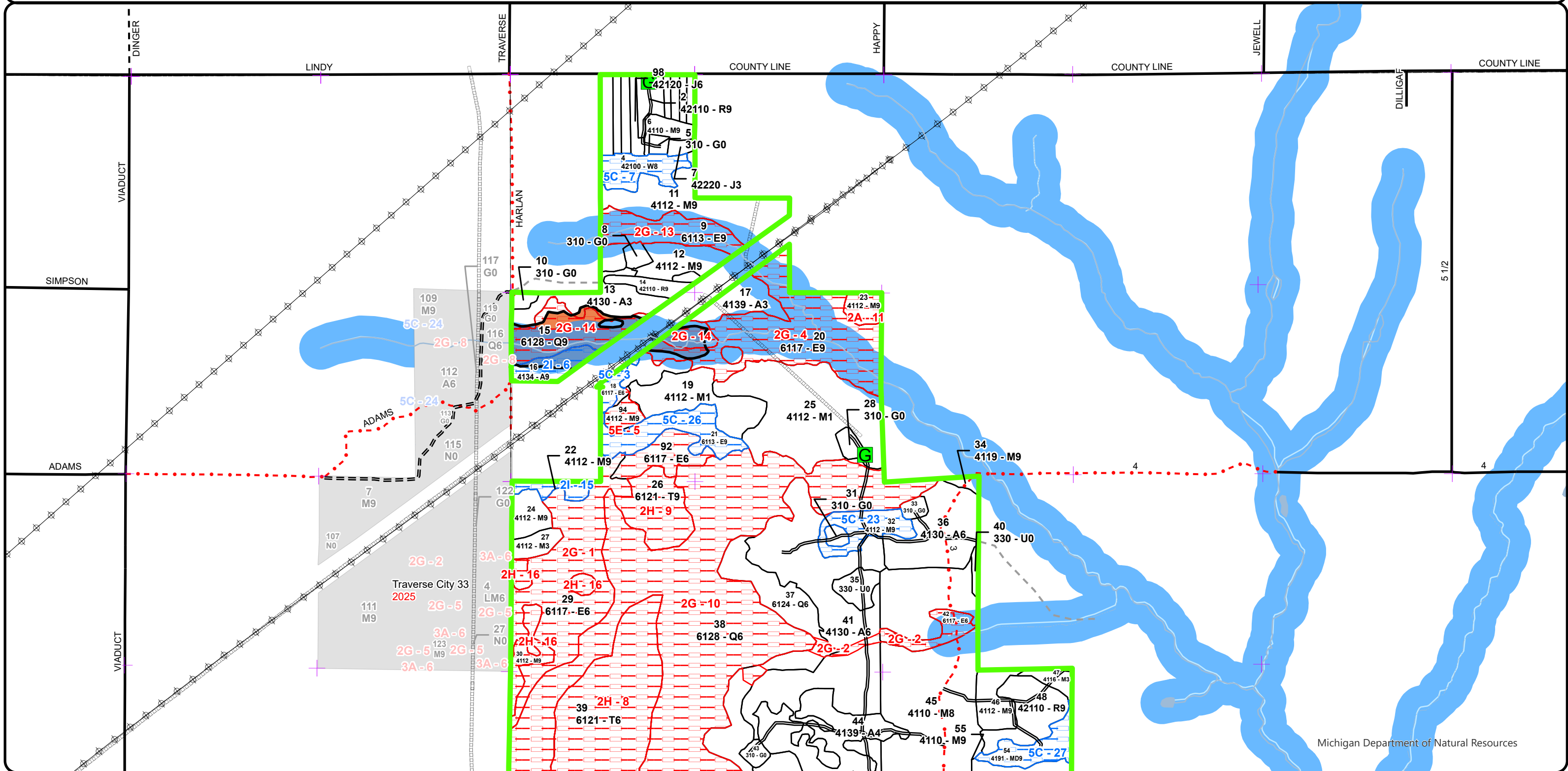


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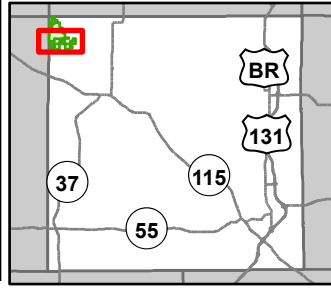
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- Counties
- SCA
- Available w/ Constraints
- Unavailable

- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area

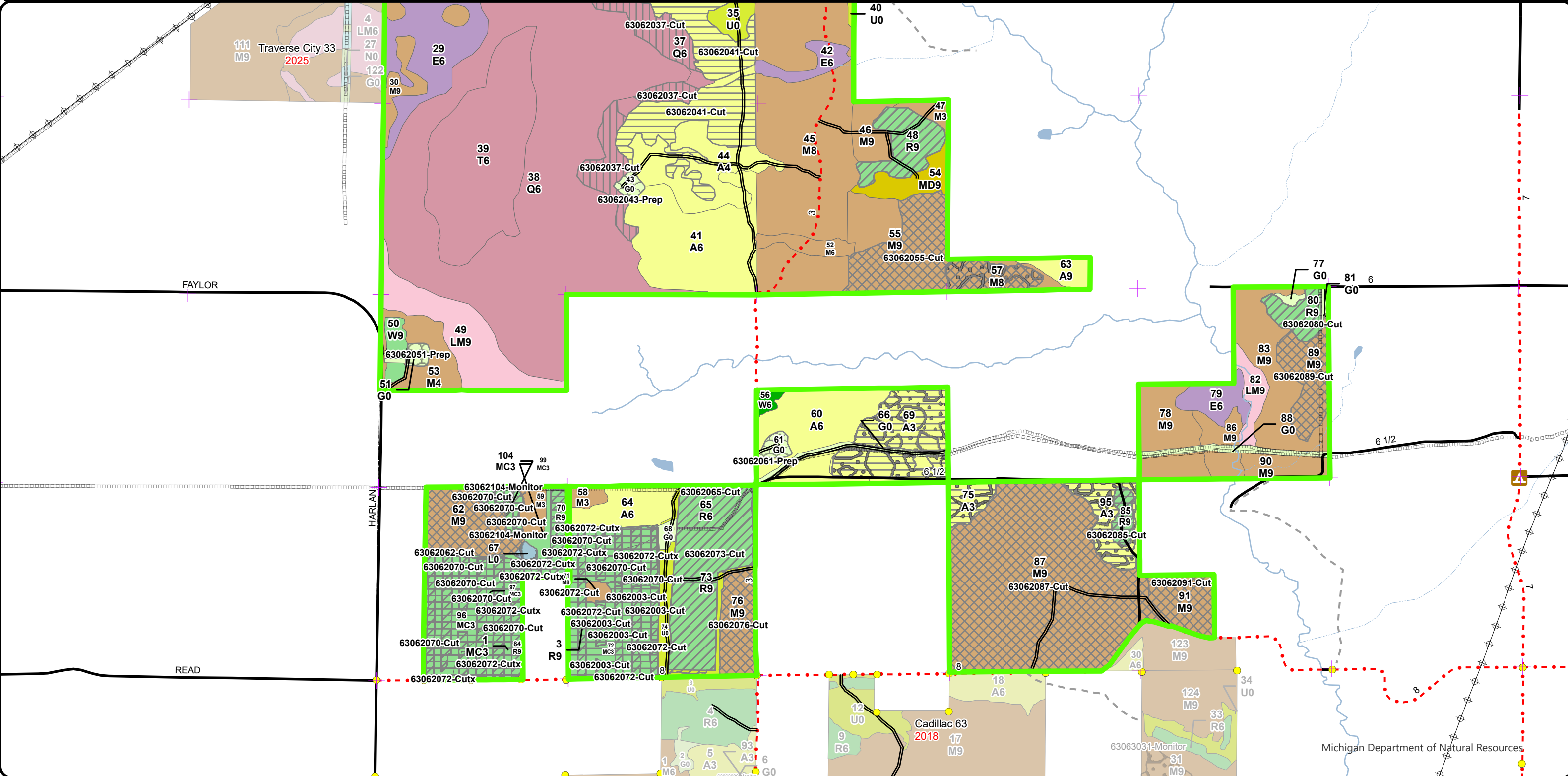
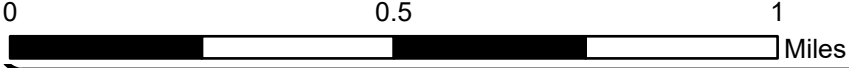


**Cover Type & Treatments Map**



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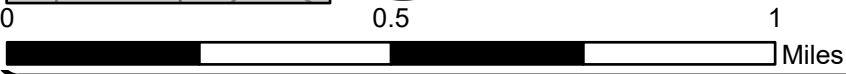
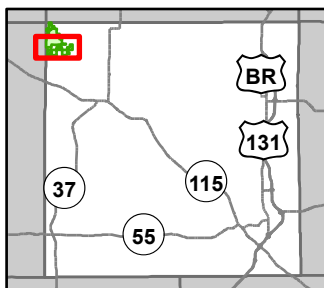
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| Compartment Boundary                  | Clearcut (w/Reserves)        |                                   |                                   |                                |





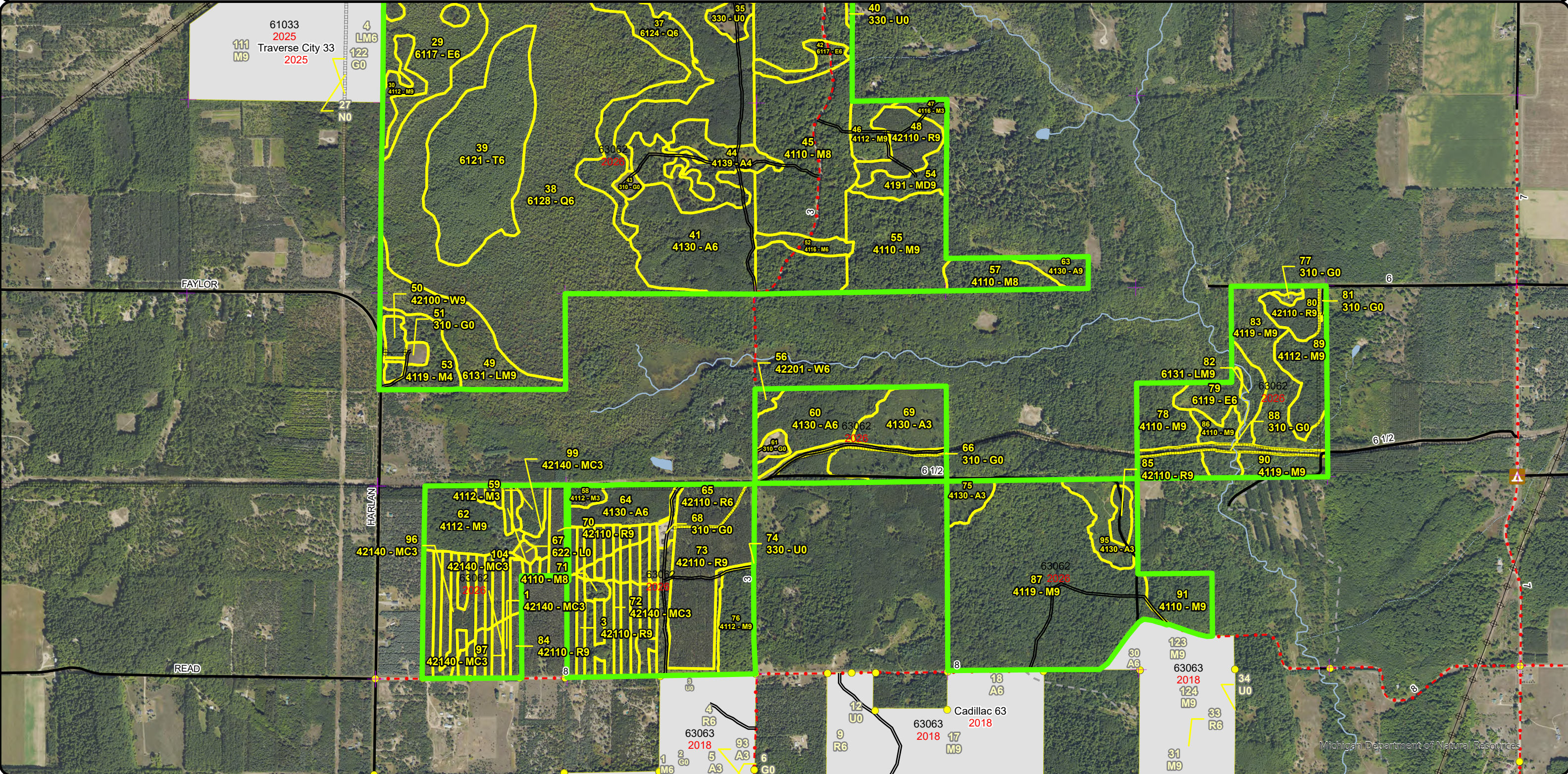
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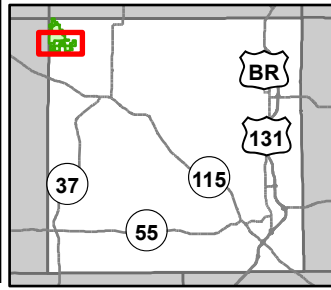
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**Special Conservation Areas & Site Conditions Map**

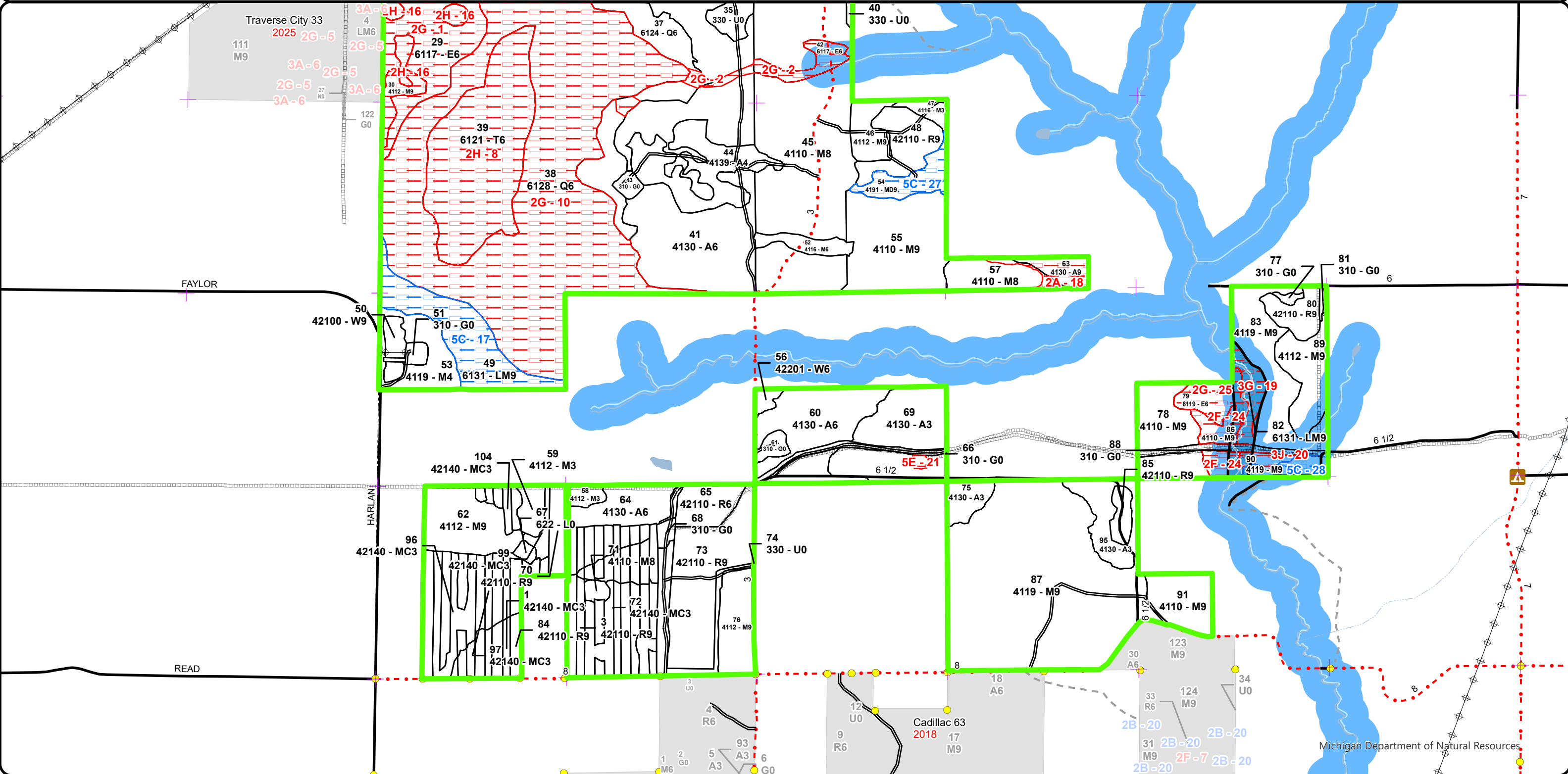
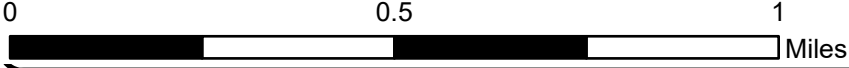


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- Powerline
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- Counties
- SCA
- Available w/ Constraints
- Unavailable

- 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)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Habitat Corridor





# Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit  
Joel Taylor : Examiner

Compartment 62 Year of Entry 2026



## 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+	Unseen-Aged	Total
Aspen	0	57	33	41	0	191	0	0	8	7	0	0	0	0	0	0	0	0	336
Herbaceous Openland	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Jack Pine	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Low-Density Trees	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Conifers	0	0	0	0	0	0	0	0	35	0	0	0	0	300	0	25	0	0	360
Lowland Deciduous	0	0	0	0	0	0	0	0	14	36	0	74	0	0	0	0	0	55	178
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	7	0	39
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Northern Hardwood	0	21	67	3	0	0	0	0	22	12	43	479	0	9	0	0	0	0	655
Planted Mixed Pines	0	0	0	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Red Pine	0	0	0	0	0	0	0	169	0	0	0	0	0	0	0	0	0	0	169
Tamarack	0	0	0	0	0	0	0	0	73	0	19	0	0	0	0	0	0	0	92
White Pine	0	0	0	0	0	2	0	5	11	0	0	0	0	0	0	0	0	0	18
<b>Total</b>	<b>55</b>	<b>78</b>	<b>100</b>	<b>117</b>	<b>0</b>	<b>193</b>	<b>0</b>	<b>174</b>	<b>163</b>	<b>66</b>	<b>94</b>	<b>553</b>	<b>0</b>	<b>309</b>	<b>0</b>	<b>25</b>	<b>7</b>	<b>55</b>	<b>1985</b>





## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Compartment 62

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 1,985

Commercial Harvest - 592  
 Harvests with Site Condition - 12  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	75	0	0	0	8	0	0	0	0	82
Lowland Conifers	0	0	0	0	33	0	0	0	0	33
Northern Hardwood	0	274	0	5	0	0	0	0	0	279
Planted Mixed Pines	56	0	0	0	0	0	0	0	0	56
Red Pine	97	0	0	0	0	58	0	0	0	155
<b>Total</b>	<b>228</b>	<b>274</b>	<b>0</b>	<b>5</b>	<b>40</b>	<b>58</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>604</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	604	12	0	0	0	0	4	0	0	620
Next Step	0	148	186	0	0	299	684	12	0	1328
<b>Total</b>	<b>604</b>	<b>160</b>	<b>186</b>	<b>0</b>	<b>0</b>	<b>299</b>	<b>687</b>	<b>12</b>	<b>0</b>	<b>1948</b>





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

**Proposed Treatments:**

<b>2</b>	<b>63062002-Cut</b>	25.9	42110 - Planted Red Pine	Sawtimber Well	68	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest red and jack pine strips. Trench and replant to red pine.  <u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Site Prep; Pesticide, Aerial - Release; Pesticide, Skidder - Release; P</p> <p><u>Acceptable</u> Red pine  <u>Regen:</u></p> <p><u>Other</u> Delay planting 2-3 years post harvest before spraying and planting. This allows the jack pine to germinate and be removed from the site. -  <u>Comment:</u> TMS instructions</p> <p><u>Site Condition</u>  Proposed Start Date: 10/1 /2025</p>											
<b>3</b>	<b>63062003-Cut</b>	15.5	42110 - Planted Red Pine	Sawtimber Well	68	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest with adjacent jack pine strips  <u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial - Site Prep</p> <p><u>Acceptable</u> Red pine  <u>Regen:</u></p> <p><u>Other</u> Small pocket of burnt pine in the North  <u>Comment:</u> Delay planting 2-3 years post harvest before spraying and planting. This allows the jack pine to germinate and be removed from the site. - TMS instructions</p> <p><u>Site Condition</u>  Proposed Start Date: 10/1 /2025</p>											
<b>6</b>	<b>63062006-Cut</b>	4.5	4110 - Sugar Maple Association	Sawtimber Well	92	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70-80BA. Focus on removing trees with disease, poor form and releasing the quality pole class sugar maple. Spec cut all merchantable ironwood.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Maple, hemlock, cherry, basswood, oak, beech  <u>Regen:</u></p> <p><u>Other</u> Understory is almost all ironwood regeneration, favor an operator with a feller-buncher to remove if possible.  <u>Comment:</u></p> <p><u>Site Condition</u>  Proposed Start Date: 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>8 63062008-Prep</b>	2.4	310 - Herbaceous Openland	Nonstocked			SitePrep	Other - Specify	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Site prep using a disc or by trenching. This is intended to break up compaction on the site from well operations. Without preparation, plantings may be stunted or fail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Other</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak, conifers except balsam fir</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>11 63062011-Cut</b>	27.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 60-80BA. Focus on removing diseased, poor formed and large trees at risk of falling out of the stand. Spec cut all merch ironwood and balsam fir. Avoid releasing hemlocks and yellow birch on more than 2 sides.</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> Maple, birch, hemlock, beech, cherry, ash, white pine, oak.</p> <p><u>Other Comment:</u> Survey request in for powerline corner. Property line along the powerline is not defined on the ground currently.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>16 63062016-Cut</b>	7.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	75	51-80	Harvest	Shelterwood with Retention	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	No
<p><u>Prescription</u> Retain all birch, hemlock, cedar, white pine. Harvest all other species. Frozen ground or dry summer harvest due to soils/lowland crossing</p> <p><u>Specs:</u> N/S through stand. Wet pocket along southern stand boundary that may need to be excluded.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> White Pine, Cedar, Hemlock, Birch, Maple, Aspen, Cherry, Beech, Balsam Fir</p> <p><u>Other Comment:</u> Include with TC aspen units (2025 YOE) to the west as one sale. Survey request in and scheduled for summer of 2024. If not harvested this entry, continued natural succession is the best course of action. BA will be scattered with some heavy pockets of retention and others with limited/none.</p> <p><u>Site Condition</u> Survey Needed</p> <p><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
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**22 63062022-Cut** 4.5 4112 - Maple, Beech, Cherry Association Sawtimber Well 108 111-140 Harvest Seed Tree with Retention 4113 - R.Maple, Conifer Even-Aged No

Prescription Harvest all trees down to 2" except hemlock, cedar, white pine, yellow birch  
Specs:

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

Acceptable Maple, cherry, hemlock, birch, cedar, white pine, beech, balsam, aspen  
Regen:

Other Include with TC aspen units (2025 YOE) to the west as one sale. Survey request in and scheduled for summer 2024.  
Comment: Winter or dry summer harvest due to wet and sensitive soils in the stand. access to eastern portion is through a utv rutted, wet, old road bed

Site Condition Survey Needed  
Proposed Start Date: 10/1 /2024

**24 63062024-Cut** 6.9 4112 - Maple, Beech, Cherry Association Sawtimber Well 105 141-170 Harvest Group Selection 4112 - Maple, Beech, Cherry Association Uneven-Aged No

Prescription Mark to a residual of 60BA. Create 1 gap per 2 acres in the stand measuring 150ft drip line to drip line. Remove diseased, poor quality stems first.  
Specs:

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

Acceptable Maple, cherry, beech, hemlock, white pine, cedar  
Regen:

Other Include with TC aspen units (2025 YOE) to the west as one sale.  
Comment: Evidence of heavy browse in the stand. Areas where the canopy opened up during previous harvest have higher quality regeneration and species diversity.

Site Condition  
Proposed Start Date: 10/1 /2024

**31 63062031-Prep** 1.9 310 - Herbaceous Openland Nonstocked SitePrep Other - Specify 4319 - Mixed Upland Forest Even-Aged No

Prescription Site prep using a disc or by trenching. This is intended to break up compaction on the site from well operations. Without preparation, plantings may be stunted or fail.  
Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Other  
Treatments:

Acceptable Oak, conifers except balsam fir  
Regen:

Other Some autumn olive  
Comment:

Site Condition  
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
<b>33 63062033-Prep</b>	2.1	310 - Herbaceous Openland	Nonstocked			SitePrep	Other - Specify	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Site prep using a disc or by trenching. This is intended to break up compaction on the site from well operations. Without preparation, plantings may be stunted or fail.</p> <p><u>Next Step Treatments:</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Other</p> <p><u>Acceptable Regen:</u> Oak, conifers except balsam fir</p> <p><u>Other Comment:</u> Some autumn olive</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2025</p>										
<b>37 63062037-Cut</b>	32.5	6124 - Lowland Spruce-Fir	Poletimber Well	78	81-110	Harvest	Shelterwood	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Retain all cedar and hemlock. Mark to leave no more than 40BA of white pine where cedar and hemlock are not present. Harvest all other species.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> maple, fir, pine, birch, hemlock, cherry, cedar, aspen</p> <p><u>Other Comment:</u> Areas excluded from treatment are ephemeral ponds or a stream. During layout, exclude any of these areas not already identified. Some areas will have higher residual BA than others.</p> <p>Winter only harvest in much of the stand, recommend weather related extension spec.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2025</p>										
<b>41 63062041-Cut</b>	74.6	4130 - Aspen	Poletimber Well	46	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees except cedar and hemlock. Additionally retain white pine greater than 20". Consider utilizing lowland pocket in North of stand for 3-10% retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> aspen, maple, cherry, fir, pine, birch</p> <p><u>Other Comment:</u> Include the southern finger as much as possible. The intention is to expand the aspen clone into the adjacent stand where it lacks a canopy. Treatment is split due to a small stream. Access will have to be from north and south.</p> <p>Road proposal to close N/S "road" post harvest.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 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>43 63062043-Prep</b>	2.4	310 - Herbaceous Openland	Nonstocked		Immature	SitePrep	Other - Specify	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Site prep using a disc or by trenching. This is intended to break up compaction on the site from well operations. Without preparation, plantings may be stunted or fail.</p> <p><u>Next Step Treatments:</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Other</p> <p><u>Acceptable Regen:</u> Oak, conifers except balsam fir</p> <p><u>Other Comment:</u> Some autumn olive</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>51 63062051-Prep</b>	2.2	310 - Herbaceous Openland	Nonstocked		Immature	SitePrep	Other - Specify	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Site prep using a disc or by trenching. This is intended to break up compaction on the site from well operations. Without preparation, plantings may be stunted or fail.</p> <p><u>Next Step Treatments:</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Other</p> <p><u>Acceptable Regen:</u> Oak, upland conifer except balsam fir</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>55 63062055-Cut</b>	31.0	4110 - Sugar Maple Association	Sawtimber Well	105	81-110	Harvest	Single Tree Selection	4111 - S. Maple, Hard Mast Association	Uneven-Aged	No
<p><u>Prescription Specs:</u> Exclude NW portion of stand from harvest. Thin stand to a residual 70BA following northern hardwood guidelines. Spec cut beech and ironwood.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> maple, beech, basswood, cherry, ash, white pine, aspen</p> <p><u>Other Comment:</u> Consider leaving a handful of nearly dead and rotted large beech as future wildlife snags.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>61 63062061-Prep</b>	3.1	310 - Herbaceous Openland	Nonstocked			SitePrep	Other - Specify	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Site prep using a disc or by trenching. This is intended to break up compaction on the site from well operations. Without preparation, plantings may be stunted or fail.</p> <p><u>Next Step Treatments:</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Other</p> <p><u>Acceptable Regen:</u> Oak, conifers except balsam fir</p> <p><u>Other Comment:</u> Some autumn olive</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										





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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
62	63062062-Cut	22.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70BA using northern hardwood marking guidelines.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> maple, cherry, beech, hemlock, white pine, basswood, birch  <u>Regen:</u>  <u>Other</u> Avoid letting machines operating in the wetter hemlock patch using a contract spec or by excluding during prep.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											
65	63062065-Cut	10.7	42110 - Planted Red Pine	Poletimber Well	62	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Second thin. Mark for quality, leaving the best stems behind. Remove poor form and at risk stems. Refer to silvicultural guidelines for tree selection.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Red pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											
67	63062067-Monitor	1.5	622 - Lowland Shrub Nonstocked				Monitoring	Natural Regen (Re-Inventory)	6229 - Mixed lowland shrub		No
<p><u>Prescription</u> Monitor response to burn.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> lowland shrubs, grasses  <u>Regen:</u>  <u>Other</u> Lots of organic soil appears to have been burned off in the fire.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2027</p>											
72	63062072-Cut	20.7	42140 - Planted Mixed Pine	Sapling Well	26	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest with adjacent red pine strips. Replant red pine post harvest  <u>Specs:</u>  <u>Next Step</u> Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release; SitePrep,  <u>Treatments:</u> Trenching; Planting, Initial Plant; Pesticide, Aerial - Site Prep  <u>Acceptable</u> Red pine  <u>Regen:</u>  <u>Other</u> Delay planting 2-3 years post harvest before spraying and planting. This allows the jack pine to germinate and be removed from the site. -  <u>Comment:</u> TMS instructions  <u>Site Condition</u>  <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>73 63062073-Cut</b>	38.5	42110 - Planted Red Pine	Sawtimber Well	62	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third thin. Mark for quality, leaving the best stems behind. Remove poor form and at risk stems. Refer to silvicultural guidelines for tree selection.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>76 63062076-Cut</b>	16.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Two-Aged	No
<p><u>Prescription</u> Thin to 70BA utilizing the northern hardwoods marking guidelines. Spec cut aspen and ironwood</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> maple, white pine, beech, hemlock, cherry, aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> BA may be below desired residual in the northern portion of stand with aspen removal</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>80 63062080-Cut</b>	8.6	42110 - Planted Red Pine	Sawtimber Well	64	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to residual 100BA. Mark for quality, leaving the best stems behind. Remove poor form and at risk stems. Refer to silvicultural guidelines for tree selection.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>85 63062085-Cut</b>	4.6	42110 - Planted Red Pine	Sawtimber Well	62	81-110	Harvest	Clearcut with Retention	4111 - S.Maple, Hard Mast Association	Even-Aged	No
<p><u>Prescription</u> Harvest all merchantable pine. Mark to leave 10BA red pine per acre favoring forked trees for future snags</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> maple, beech, cherry, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Advanced regen protection spec. Best access is from the south</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>87 63062087-Cut</b>	133.1	4119 - Mixed Northern Hardwoods	Sawtimber Well	105	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Thin to a residual 70BA using the complete marking guidelines. Spec cut all aspen and ironwood.</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> maple, cherry, beech, hemlock, elm, aspen, ash</p> <p><u>Regen:</u></p> <p><u>Other</u> Aspen spec cut will have pockets of low BA but are intended as diversity inclusions. There is a large amount of variability within the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>89 63062089-Cut</b>	17.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	102	111-140	Harvest	Group Selection	4111 - S.Maple, Hard Mast Association	Two-Aged	No
<p><u>Prescription</u> Thin to a residual of 70BA creating 1 gap (150ft drip line to drip line) for every 2 acres. Release and protect areas of advanced maple regeneration where possible. Spec cut ironwood</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> maple, cherry, basswood, ash, beech, hemlock, birch</p> <p><u>Regen:</u></p> <p><u>Other</u> There are some steep slope drop-offs along stand edges. Very heavy deer browse on all species. 15+ doe bumped between 3 groups while examining stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>91 63062091-Cut</b>	15.1	4110 - Sugar Maple Association	Sawtimber Well	94	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Two-Aged	No
<p><u>Prescription</u> Thin to a residual 70BA using the complete marking guidelines. Spec cut ironwood</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> maple, cherry, basswood, ash, beech, hemlock, birch</p> <p><u>Regen:</u></p> <p><u>Other</u> Southern boundary may need to be excluded due to slope/County Road</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>104 63062104-Monitor</b>	2.2	42140 - Planted Mixed Pine	Sapling Well	26	1-50	Monitoring	Natural Regen (Intermediate)	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Monitor for survival response post fire. Largely a ground fire in this area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine, maple, cherry, red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>										

**Approved Treatments:**

<b>70 63062070-Cut</b>	51.4	42110 - Planted Red Pine	Sawtimber Well	68	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear Cut with no retention to facilitate re-planting red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Pesticide, Aerial - Site Prep</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>96 63062072-Cutx</b>	34.9	42140 - Planted Mixed Pine	Sapling Well	26	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear Cut with no retention to facilitate replanting red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); SitePrep, Trenching; Pesticide, Aerial - Site Prep</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Total Treatment Acreage Proposed: 622.2**



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joel Taylor : Examiner

Compartment: 62  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions										
		With Condition	Not Available		2I	5C	2A	2F	2G	2H	3G	3J	5E		
336	319	8	9	Aspen	8		7		2						1
34	34	0	0	Herbaceous Openland				0	0						
11	11	0	0	Jack Pine											
19	19	0	0	Low-Density Trees											
360	33	0	327	Lowland Conifers					327						
178	0	21	158	Lowland Deciduous		21		0	157	0					1
39	0	32	7	Lowland Mixed Forest		32					7				
1	1	0	0	Lowland Shrub											
11	0	11	0	Mixed Upland Deciduous		11									
656	599	22	35	Northern Hardwood	5	17	7	9	0	12	0	3		4	
61	61	0	0	Planted Mixed Pines											
169	169	0	0	Red Pine											
91	0	0	91	Tamarack					0	91					
18	7	11	0	White Pine		11									
1,985	1,255	103	628	Total Forested Acres	12	91	13	9	486	103	7	3		6	
	63%	5%	32%	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	2G: Too wet (sensitive soils, does not include access issues)	66	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joel Taylor : Examiner

Compartment: 62  
Year of Entry: 2026

3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluate for harvest 2036YOE							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	57	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>2I: Survey needed</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<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> Good regeneration of sugar maple stems above browse height. White pine stocking is below the A-line and should be fine until the next entry							
8	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	73	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very difficult access and concern over getting tamarack regen back.							



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joel Taylor : Examiner

Compartment: 62  
Year of Entry: 2026

9	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very Difficult access and concern over getting tamarack regen.							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	301	5D: Unproductive Forest Land	3J: Water quality / BMPs (stream, river, or lake)	4A: No Markets Available for these Forest Products	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2A: Adjacent landowner denied access</b>	5	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was checked by limit factor forester and determined to be too small acreage to go after considering the difficult access.							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	25	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Unique stand that follows a river bottom.							
15	<b>Available</b>	<b>2I: Survey needed</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joel Taylor : Examiner

Compartment: 62  
Year of Entry: 2026

16	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>2A: Adjacent landowner denied access</b>	9	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Falling apart overmature aspen, filling in with pole-sap maple. Let stand convert to maple.							
19	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	7	3J: Water quality / BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b> Unique stand that follows the river bottom.							
20	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream through stand							
21	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

Cadillac Mgt. Unit  
Joel Taylor : Examiner

Compartment: 62  
Year of Entry: 2026

23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Delay due to adjacent aspen harvest.							
24	Unavailable	2F: Too steep	9	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b>							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand needs another cycle to mature.							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit**  
**Joel Taylor : Examiner**

**Compartment: 62**  
**Year of Entry: 2026**

28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	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 Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
1	42140 - Planted Mixed Pine	Sapling Well	10.4	26	1-50	N/A	Stand is part of the 4 corner salvage sale. The stand had a crown fire in the summer of 2023 and will be replanted post sale.																																																										
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2	42110 - Planted Red Pine	Sawtimber Well	17.1	68	111-140	N/A	Stand was first thinned in 1997. (Every third row) Stand was then second thinned in 2008.YOE26 - 150,225,210,195,225,225BA																																																										
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3	42110 - Planted Red Pine	Sawtimber Well	15.5	68	141-170	N/A	Red pine strips which were row thinned in 1997. (Every Third Row) Strips were then second thinned in 2007. Stand thinned again in 2017....Good height and quality for the most part. One pocket of dieback less then a acre. No understory.																																																										
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4	42100 - Planted White Pine	Sawtimber Medium	10.7	73	141-170	N/A	White pine was row thinned in 2008 -take two leave two-with most of the hardwood cut as well. White pine overstory very scattered with a mixture of hardwood wood breaking up the pine success. Mostly hardwood regen with little white pine regen. White pine mix of pole and logs with pockets of dieback. As stand matures much of the suppressed white pine will fall out and will hardly recognizable as a plantation.																																																										
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5	310 - Herbaceous Openland	Nonstocked	1.6				Active Well Site.																																																										
6	4110 - Sugar Maple Association	Sawtimber Well	4.5	92	141-170	N/A	Hardwood was thinned in 2008, was a tree length skidding job. Small ridge of average quality maple. Close to log stand overall, but still a lot of poles. Small component of white pine saplings beginning to establish in parts. YOE26 BA - 165,165,180,150,120																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>7</b>	42220 - Natural Jack Pine	Sapling Well	1.7	27	81-110	N/A	Stand was final harvested in 1997. Was trenched to be planted but was never planted. Came back thick to jack pine and mixed hardwood.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	75	Sapling	4	27
Black Cherry	15	Sapling	4	27
Red Maple	10	Sapling	4	27

<b>8</b>	310 - Herbaceous Openland	Nonstocked	2.4			No	capped in 1977.
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<b>9</b>	6113 - Lowland Maple	Sawtimber Well	17.4	104	51-80	N/A	Lowland hardwood with thick hemlock-cedar and balsam pole-sap understory. Drainage runs through stand. Hummucky ground with canopy gaps created from windthrow. Variable diameters and ages as a result of decades of windthrow. Some pockets are heavier to logs and others are more close to poles. Good stand for thermal cover.
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Pole/Log	8	11
Hemlock	8	Log	12	
Black Ash	20	Pole/Log	8	
Red Maple	65	Log/Pole	10	104
Northern White Cedar	2	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Medium	Variable	Pole
Balsam Fir	Medium	Variable	Sapling
Hemlock	Medium	Variable	Pole
Red Maple	Low	Variable	Sapling

<b>10</b>	310 - Herbaceous Openland	Nonstocked	1.7				Recent capped well site.
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<b>11</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	27.7	105	111-140	N/A	Stand was thinned in 2008, was a tree length skidding job. Good quality red and sugar maple. Fir and hemlock understory in south end. Hummucky ground. Quality and increases density on eastern half. West tip of stand has much lower BA. Some red maple stems over 20 inches. A mix of pole and logs. Heavy deer browse across the stand. Underground pipeline in the eastern finger YOE26 BA - 135, 150, 180, 150, 105, 135
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	45	Log/Pole	12	
Beech	3	Log	14	
White Pine	2	Log	10	
Black Cherry	3	Log/Pole	12	
Red Maple	45	Log	15	105
Yellow Birch	2	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	Variable	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	Low	5 - 10 feet	Sapling
Beech	Medium	10 - 20 feet	Sapling
Hemlock	Low	>20 feet	Sapling
Sugar Maple	Medium	>20 feet	Sapling
Red Maple	Medium	Variable	Sapling
Ironwood	Full	Variable	Sapling
Yellow Birch	Trace	>20 feet	Sapling

<b>12</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.8	102	81-110	N/A	2026 YOE: Western portion is 50-70 BA with patches of decent desired regeneration although balsam fir is taking hold. Eastern portion is higher BA but does not appear to be recruiting saplings. Stand was thinned in 2008, was a tree length skidding job. Good quality red maple- cherry stand mixed with hard maple. Some steep slopes on north border.
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Canopy Species	% Cover	Size Class	DBH	Age
Beech	5	Pole/Sapling	6	
Sugar Maple	15	Log/Pole	11	
Black Cherry	30	Log/Pole	12	
Red Maple	50	Log/Pole	13	102

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
Ironwood	Medium	10 - 20 feet	Sapling
Beech	Medium	10 - 20 feet	Sapling
Black Cherry	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
13	4130 - Aspen	Sapling Well	16.4	17		N/A	Stand was final harvested in 2007. All cedar and hemlock was left. Mix of red maple/cherry and aspen has come back. (Heavier to aspen) Small less then an acre of log maple-cherry was in the north border of stand.																																																							
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Red Maple	18	Sapling	1	17																																																										
14	42110 - Planted Red Pine	Sawtimber Well	4.9	62	141-170	N/A	Pine was third row thinned in 2008. Marked second thinning in 2016. Decent quality red pine. Limited to no understory, except for a few beech and balsam fir.																																																							
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15	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	24.7	145	111-140	N/A	Variable mixed lowland hardwood and aspen with very thick hemlock and cedar understory/overstory. Some areas the hardwood is more in the overstory and others hemlock and cedar are primarily in the overstory. Overtime conifer component will increase. Blowdown has created some gaps and pockets of new growth. Significant creek runs though stand. Unique stand as a result of the amount and quality of the hemlock.																																																							
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16	4134 - Aspen, Spruce/Fir	Sawtimber Well	7.7	75	51-80	N/A	Variable semi upland mix of red maple, fir, aspen, and hemlock. Variable diameters. Hummocky ground close to lowland in spots. Blowdown throughout. Thick fir understory. Over mature aspen, likely hollow																																																							
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17	4139 - Aspen, Mixed Deciduous	Sapling Well	16.9	15		N/A	Stand was final harvested in winter of 2009. Any Hemlock was left. (2 inch spec cut) Stand is in three seperate spots. Regenerated back to aspen hardwood mix. Scattered hemlock still standing. Some spots are heavier to aspen, while others are cherry and red maple.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**18** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 4.0 79 81-110 N/A Small lowland complex with some dry rises. Aspen is falling out of the stand. Balsam fir is out competing other species in understory

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	20	Pole	8		White Pine	Low	Variable	Sapling
White Pine	2	Log	15		Red Maple	Low	Variable	Sapling
Northern White Cedar	5	Pole	6		Hemlock	Low	Variable	Sapling
Black Cherry	5	Pole	8		Balsam Fir	Medium	Variable	Sapling
Red Maple	58	Log/Pole	10	79	Beech	Low	5 - 10 feet	Sapling
Quaking Aspen	10	Log/Pole	12					

**19** 4112 - Maple, Beech, Cherry Association Sapling Poor 20.5 8 Immature N/A Central portion of stand was marked thinning in 2009. Mixed red maple cherry mix. Similar composition hardwood are found in this region, unique to see this much cherry, Semi lowland in spots although mostly upland ridge, Very hummocky ground. STAND final harvested in 2017 winter, was chipping operation.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	47	Sapling	1	8	White Pine	Medium	5 - 10 feet	Sapling
White Pine	3	Log	12		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Black Cherry	50	Sapling	1	8	Balsam Fir	Low	5 - 10 feet	Sapling
					Beech	Low	< 5 feet	Sapling

**20** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 56.7 107 51-80 N/A Lowland hardwood complex, with hemlock and cedar component. Small drainages and seeps scattered across the stand. Significant stream runs through the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	15	Log/Pole	12		Red Maple	Low	Variable	Sapling
Yellow Birch	10	Pole/Log	8		Hemlock	Low	Variable	Sapling
Red Maple	59	Log	15	107	Black Ash	Medium	< 5 feet	Sapling
Northern White Cedar	7	Log/Pole	11		Sugar Maple	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
White Pine	3	Log	15		Yellow Birch	Low	>20 feet	Sapling
Basswood	1	Log	12					

**21** 6113 - Lowland Maple Sawtimber Well 17.3 85 81-110 N/A Hardwood with a mix of conifer and scattered log white pine. Old road through stand has oil pipeline signs along it.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	1	Pole/Log	8		Red Maple	Medium	Variable	Sapling
Black Cherry	24	Log/Pole	12		White Pine	Low	< 5 feet	Sapling
White Pine	5	Log	12		Balsam Fir	Medium	Variable	Sapling
Red Maple	60	Log/Pole	10	85				
Balsam Fir	10	Pole	8					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**22** 4112 - Maple, Beech, Cherry Association Sawtimber Well 4.5 108 111-140 N/A Small ridge of large log red maple, cherry and some hemlock. Balsam fir mixed in. Private to north, Wet pocket far west end as well

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	2	Pole/Log	8		Balsam Fir	High	Variable	Sapling
Hemlock	4	Pole	8		Black Cherry	Low	Variable	Sapling
Balsam Fir	10	Pole	5		Beech	Medium	Variable	Sapling
Black Cherry	5	Log	11		Red Maple	Low	Variable	Sapling
White Pine	2	Log	14					
Red Maple	75	Log/XLog	17	108				
Yellow Birch	2	Pole	8					

**23** 4112 - Maple, Beech, Cherry Association Sawtimber Well 4.8 105 141-170 N/A Small sliver of hardwood landlocked by private. Stand has been reviewed by the Site Condition Forester on 1-6-11 and determined to be too small and not commercial desired for management as a result of difficult access.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	20	Log	16		Black Cherry	Low	Variable	Sapling
Hemlock	5	Log/Pole	12		Balsam Fir	Low	5 - 10 feet	Sapling
Sugar Maple	20	XLog/Log	18		Sugar Maple	Low	Variable	Sapling
Red Maple	55	XLog/Log	18	105	Hemlock	Low	5 - 10 feet	Sapling
					Beech	Low	Variable	Sapling
					Ironwood	Medium	Variable	Sapling

**24** 4112 - Maple, Beech, Cherry Association Sawtimber Well 6.9 105 141-170 N/A Stand was marked thinning in 2006. Sale was sold out of TC office and majority of sale was in Manistee County. Good sawlog red maple-cherry upland stand. Seedlings are heavily browsed, including beech. Greater recruitment of saplings is where gaps were created during the last entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	2	Log	10		Hemlock	Low	Variable	Sapling
Black Cherry	35	Log	15		Ironwood	Low	5 - 10 feet	Sapling
Red Maple	50	Log	15	105	Beech	Medium	5 - 10 feet	Sapling
Sugar Maple	13	Log	14		Sugar Maple	Low	Variable	Sapling
					Black Cherry	Medium	5 - 10 feet	Sapling
					Red Maple	Low	Variable	Sapling

**25** 4112 - Maple, Beech, Cherry Association Sapling Poor 52.8 14 Immature N/A 02/2024: Heavy deer sign and browse. Regen is doing fine but is competing with a heavy flush of blackberry and raspberry across the stand. Far more berry shrubs than adjacent stand 19. Perhaps multiple entries in a short period acted as a release for their seed bank Stand was originally thinned in 1999. (Orange marked) Over a long stretch of 2009, all Maple and Balsam was cut 4 inches and up. South of pipeline was cut a few months before north of pipeline. Very unique stand. Left with mature log cherry overstory, some of which is dying. Red maple, beech, cherry, and some balsam filling in the understory. Hemlock scattered in by well pad. A few low spots on edge of stand. STAND final harvested in winter 2017, young advanced red maple was worked around where possible.(This regen came from 2009 cut) Was a chipping operation.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	83	Sapling	2	14	Black Cherry	Medium	Variable	Sapling
Black Cherry	10	Sapling	1	8	Sugar Maple	Trace	Variable	Sapling
Hemlock	5	Log/Pole	10		Blackberry/Raspberry	Full	< 5 feet	Tall Shrub
Beech	2	Log	14		Ironwood	Low	Variable	Sapling
					Red Maple	Medium	Variable	Sapling
					White Pine	Low	5 - 10 feet	Sapling
					Beech	Medium	Variable	Sapling



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26	6121 - Tamarack	Sawtimber Well	18.6	91	51-80	N/A	Mix of pole- log tamarack with red maple, cedar, and a few spruce. Balsam fir and cedar understory. Wet hummucky ground, with some blowdown. Better quality and larger diameter then tamarack to south.																																																																				
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27	4112 - Maple, Beech, Cherry Association	Sapling Well	4.7	18	1-50	N/A	Stand was final harvested in 2006. All yellow birch and hemlock were left. Came back well to red maple and cherry well. A couple beech as well. Red maple sprouts and cherry filled into the gaps.																																																																				
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28	310 - Herbaceous Openland	Nonstocked	2.7			No	Active well site with some infrastructure. There is a gate at the entrance to the site.																																																																				
29	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	54.5	88	1-50	N/A	Larger lowland hardwood complex, with cedar. Variable red maple with mix of cedar, fir, birch, black ash, hemlock, and scattered white pine. Variable density and structure. Some pockets of suprising cedar regen. There is no sign of deer activity during winter																																																																				
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30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.0	104	111-140	N/A	Ridge of red maple with beech, balsam, white pine understory. A few hemlock and cedar. Mostly upland although lowland on edges. Isolated ridge. One of the ridges is a isoated island in the middle of the lowland complex.																																																																				
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31	310 - Herbaceous Openland	Nonstocked	1.9			No	Unactive well, no infrastructure on pad. Appears nothing is taking place here any longer. A few aspen and white pine saplings.																																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
32	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.5	86	111-140	N/A	Small sliver of pole-log hardwood left among older final harvests on either end. Small aspen clone in stand. Heavy to red maple with many stump sprout origin stems. Ironwood, balsam, and beech dominate the understory.																																																								
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33	310 - Herbaceous Openland	Nonstocked	2.1			No	Inactive well, no infrastructure on pad. Autumn olive is beginning to fill in the opening.																																																								
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34	4119 - Mixed Northern Hardwoods	Sawtimber Well	1.6	98	81-110	N/A	Small side slope of mature hardwood and a few aspen. Stand was missed from being cut in stand to south as a result of slope. A few hemlock in stand.																																																								
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35	330 - Low-Density Trees	Nonstocked	5.7			No	Opening with a few scattered cherry.																																																								
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36	4130 - Aspen	Poletimber Well	25.6	26	1-50	N/A	Stand was final harvested in 1998. Regenerated well back to aspen and maple. County road goes through stand. A couple of sugar maple and hemlock were left from 98 cut scattered. Appears stand was a hardwood stand prior to cut in 1998.																																																								
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37	6124 - Lowland Spruce-Fir	Poletimber Well	35.2	78	81-110	N/A	Mixed spruce/ fir stand with scattered white pine, hemlock, cedar, red maple. Hummocky ground.																																																																				
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38	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	300.3	120	81-110	N/A	Large variable mixed lowland complex. Pockets of dense cedar. Followed by lowland hardwood pole with cedar component. Very mixed lowland stand. Wet hummucky ground . Variable diameters and density. Windthrow other the years has created pockets of regen in some areas. Very wet ground which does not appear to support larger trees. Creek runs through southern end of stand, seeps and standing water can be found throughout stand.																																																																				
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39	6121 - Tamarack	Poletimber Well	72.7	79	51-80	N/A	Lowland tamarack with cedar understory. Hummucky ground with significant blowdown. Scattered log white pine and some red maple. Pole size timber. Tag, cedar, and fir understory.																																																																				
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40	330 - Low-Density Trees	Nonstocked	1.4			No																																																																					
41	4130 - Aspen	Poletimber Well	127.2	46	111-140	N/A	Stand was final harvested in 1978. Somewhat variable but aspen dominates stand with some pockets of hardwood scattered in stand. Mostly upland although west borders a swamp and has some lowland character. Two small seasonal drainages also cross the stand from east to west. In the north spot it has made the old logging road too wet to cross. Balsam fir also mixed in along the swamp edge and in the low seasonal drainages. Some hardwood coming in under the aspen. Not the best quality aspen.																																																																				
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**42** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 7.2 85 51-80 N/A Mixed semi lowerland drainage that splits hardwood stand. Mix of aspen, fir, lowland hardwood and some hemlock. Sesonally flooded.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	8		White Pine	Low	Variable	Sapling
Hemlock	25	Pole/Log	9		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	30	Log/Pole	10		Hemlock	Low	Variable	Sapling
Red Maple	35	Log/Pole	10	85				

**43** 310 - Herbaceous Openland Nonstocked 2.4 Immature No Unactive well, no infrastructure on pad. Appears nothing is taking place here any longer.

Sub-Canopy Species	Density	Avg. Height	Size
Autumn Olive	Medium	5 - 10 feet	Tall Shrub
White Pine	Low	Variable	Sapling

**44** 4139 - Aspen, Mixed Deciduous Poletimber Poor 28.9 46 1-50 N/A Stand was final harvested in 1978 and came back to an open cover type. Mix of aspen and cherry

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Pole	6	46
Black Cherry	45	Pole	8	46
White Pine	5	Pole/Sapling	5	
Red Maple	10	Sapling/Pole	3	

**45** 4110 - Sugar Maple Association Sawtimber Medium 109.5 103 51-80 N/A Stand was just aquired since the last time the compartment was inventoried. Hardwood was last thinned in the early 2000's. At this time small and larger canopy gaps were created to encourage aspen regen, while other portions of the stand were thinned more traditionally. The result is a two aged stand created from when the stand was last thinned. Rolling terrain. Southern end is lower quality, where most of the gaps were created. North end is where the better quality and larger diameter hardwood is present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	65	Log/Pole	11	103	Ironwood	Medium	Variable	Sapling
White Ash	5	Log/Pole	10		Sugar Maple	Low	< 5 feet	Sapling
Beech	3	Log/Pole	10		Red Maple	Medium	Variable	Sapling
Red Maple	10	Log/Pole	11		Beech	Medium	Variable	Sapling
Black Cherry	12	Log/Pole	10		Hemlock	Low	Variable	Sapling
White Pine	5	Pole/Log	8		Black Cherry	Medium	Variable	Sapling
					Bigtooth Aspen	Medium	Variable	Sapling

**46** 4112 - Maple, Beech, Cherry Association Sawtimber Well 9.1 99 81-110 N/A Stand was marked thinning in 2012, shortwood operation with all aspen and ironwood also cut. Mix of poles and logs. Medium to poor quality hardwood. Higher quality on the north end.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	5	Log	13		Sugar Maple	Low	Variable	Sapling
Sugar Maple	77	Log	12	99	Red Maple	Low	Variable	Sapling
Red Maple	16	Log/Pole	12		Beech	High	Variable	Sapling
Black Cherry	2	Pole/Log	9		Ironwood	High	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
47	4116 - Mixed N. Hardwood - Aspen	Sapling Well	3.8	12	Immature	N/A	Regen is a mix of maple, aspen, and beech. Good quality stems with an average stand height of ~20ft. Hardwood stand was final harvested in 2012 along with the hardwood thinning. Widely scattered white ash and basswood were left.																																																																				
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48	42110 - Planted Red Pine	Sawtimber Well	16.0	62	141-170	N/A	Stand was first thinned in 2007. (Third row thinning). Fairly good quality plantation. Stand was marked second thinning in 2016.																																																																				
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49	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	31.6	96	81-110	N/A	Lowland hardwood with cedar, hemlock component. Pole-log hardwood red maple in pockets. Heavy regeneration of ash in understory. A stream runs NW to SE in western portion of the stand																																																																				
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50	42100 - Planted White Pine	Sawtimber Well	5.2	62	141-170	N/A	Plantation white pine. Variable density, with a few huge maple scattered in. Understory of white pine developing well, seedling and sapling class. Open grown limy pine for most part. Rows are not really visible.																																																																				
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51	310 - Herbaceous Openland	Nonstocked	2.5		Immature	No	Old well site, old powerline leads from road to this location for unknown reason.																																																																				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
52	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	6.0	72	81-110	N/A	Semi lowerland stand that has been avoided in recent hardwood thinnings. Stand is in a small valley between the hardwood. Standing water in the spring in spots appears to dry out in summer. Overmature aspen scattered, which is being replaced by better quality pole red maple. Scattered cherry and white pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Ironwood	5	Pole/Sapling	5		Red Maple	Low		Variable	Sapling
Red Maple	53	Pole/Log	8	72	Balsam Fir	Low		< 5 feet	Sapling
Bigtooth Aspen	20	Log	14		Beech	Low		< 5 feet	Sapling
Black Cherry	15	Log	12		Ironwood	Low		Variable	Sapling
Yellow Birch	2	Pole	8						
White Pine	5	Log	16						
53	4119 - Mixed Northern Hardwoods	Poletimber Poor	16.3	75	51-80	N/A	Old opening which has slowly filled in with cherry, maple, fir and a few hemlock. Scattered white pine, witch hazel, and cherry in understory. Good white pine regen but lots of weevil damage to leaders. Has filled in enough to be called forested stand at this point.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	15	Log/Pole	10		Balsam Fir	Low		10 - 20 feet	Sapling
Red Maple	25	Pole/Log	8		Witch Hazel	Low		10 - 20 feet	Tall Shrub
Black Cherry	45	Log/Pole	10	75	Scotch Pine	Trace		5 - 10 feet	Sapling
Balsam Fir	10	Pole	6		White Pine	High		10 - 20 feet	Sapling
Hemlock	5	XLog	26		Black Cherry	Low		Variable	Sapling
54	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.6	85	81-110	N/A	Mix of hardwood, aspen and planted white pine. Portion of stand was thinned in 2007, with the white pine being row thinned(take two leave two) and all aspen, cherry and red maple was spec cut. Small portion of west was missed with this treatment. As a result small mature aspen clone was left in west end(2 acres). Too small now to go after commercially. Log-Pole mix overall, close to pole stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	35	Log	13	85	Red Maple	Medium		Variable	Sapling
Beech	5	Log	11		Beech	Medium		Variable	Sapling
Black Cherry	5	Pole/Log	9		Ironwood	Low		Variable	Sapling
Bigtooth Aspen	25	Log	16		Black Cherry	Medium		Variable	Sapling
55	4110 - Sugar Maple Association	Sawtimber Well	42.5	105	81-110	N/A	Quality hardwood, increasing on the south end. Lower BA in Northwest portion of stand. Hilly terrain. Stand was last thinned in 2012, all aspen and ironwood was spec cut as well as marked trees.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Basswood	7	Log	16		Red Maple	Low		Variable	Sapling
Beech	5	Log	16		Beech	Medium		Variable	Pole
Black Cherry	8	Log	12		Black Cherry	Low		Variable	Sapling
Sugar Maple	75	Log	15	105	White Ash	Medium		Variable	Sapling
Red Maple	5	Log	13		Sugar Maple	Medium		Variable	Sapling
					Ironwood	Medium	Variable	Sapling	
56	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	2.3	46	51-80	N/A	Stand was final harvested in 1978 along with the aspen. This stand came back to mostly white pine.		
Canopy Species	% Cover	Size Class	DBH	Age					
Black Cherry	10	Pole	5						
Red Maple	10	Pole	6						
Bigtooth Aspen	10	Pole	7						
White Pine	70	Log/Pole	10	46					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
<b>57</b>	4110 - Sugar Maple Association	Sawtimber Medium	13.6	105	51-80	N/A	Stand was thinned in summer 2017, shortwood operation and wood was forwarded to opening to the north near the planted red pine. Trees along fence to north were too steep to cut.																																																	
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<b>58</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	3.2	27	1-50	N/A	Stand was final harvested in 1997. Regenerated to cherry with some red maple mixed in. Scattered pine and balsam fir were left. Hummucky ground. Was a small piece of hardwood prior to harvest from looking at the old notes.																																																	
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<b>59</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	5.3	17	1-50	N/A	Southern and Western edges (~125ft into the stand) burned in the 4 corners fire 2023. Stand was final harvested in 2007. A few white pine were left along with all maple less than 4" dbh. This resulted in two aged stand. Advanced regen and recent growth from 2007 cut. Came back to mostly red maple with a little aspen and cherry.																																																	
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<b>60</b>	4130 - Aspen	Poletimber Well	34.9	46	111-140	N/A	Stand was final harvested in 1978, by Pugsley Immates. (Appears all white pine logs were cut at this time.) Came back to mostly aspen with a few hardwood and a few scattered white pine. Some older aspen clones scattered in.																																																	
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<b>61</b>	310 - Herbaceous Openland	Nonstocked	3.1				Inactive well site. Infrastructure has been removed.																																																	



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<b>62</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	23.0	105	111-140	N/A	Edges of stand were burned in the 4 corners fire 2023. It appears that very few trees will die from this event.																																																			
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<b>63</b>	4130 - Aspen	Sawtimber Well	6.5	85	51-80	N/A	Isolated stand of over mature log aspen, with maple poles and saps filling in the understory. West border of stand is seperated by the hardwood with wet drainage.(Drainage about 50 to 70 feet across) Aspen is already falling apart and likley not sound at this point. Stand will slowly convert to hardwood.																																																			
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<b>64</b>	4130 - Aspen	Poletimber Well	15.1	27	51-80	N/A	Stand was final harvested in 1997. Came back well to aspen with some cherry and red maple. A few pine left scattered. Small buffer was left along the pine in the southeast border of stand.																																																			
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<b>65</b>	42110 - Planted Red Pine	Poletimber Well	10.7	62	111-140	N/A	Records indicate this portion of the plantation failed for some reason. As a result rows are difficult to see in spots(mostly in the northwestern portion). Stand has not yet been thinned. Mostly stubby red pine where it failed. Stand was third row thinned in 2016, producer made rows where they were not obvious.																																																			
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<b>66</b>	310 - Herbaceous Openland	Nonstocked	4.6			No	Underground pipeline.																																																			
<b>67</b>	622 - Lowland Shrub	Nonstocked	1.5			No	Burned in the 4 corners fire 2023. 6-12" of organic soil was burned off during the event.																																																			
<b>68</b>	310 - Herbaceous Openland	Nonstocked	1.9				Active Well Site. Infrastructure on pad. Strong smell by pad.																																																			
<b>69</b>	4130 - Aspen	Sapling Well	35.5	8	Immature	N/A	Stand was final harvested in summer of 2017. All pine was left and retention island was put in. Landing was along county road. Very good aspen regeneration																																																			
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<b>70</b>	42110 - Planted Red Pine	Sawtimber Well	38.2	68	111-140	N/A	Stand is part of the 4 corner salvage sale being cut by horn logging. The stand had a crown fire in the summer of 2023 and will be replanted post sale.																																			
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<b>71</b>	4110 - Sugar Maple Association	Sawtimber Medium	2.1	109	51-80	N/A	Small piece of log hardwood that was planted around over the years and avoided																																			
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<b>72</b>	42140 - Planted Mixed Pine	Sapling Well	20.8	26	1-50	N/A	Jack Pine strips were final harvested in 1997. They were then planted to red pine in 1998. Jack pine volunteers came up with the red pine seedlings. A few spots of hardwood regen were planted around as well. Some cherry was left standing when the stand was final harvested. Stand is currently a variable mix of jack and red. A handful of sugar maple legacy type trees are also present.																																			
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<b>73</b>	42110 - Planted Red Pine	Sawtimber Well	38.5	62	141-170	N/A	Red pine plantation was third row thinned in 1997. Good overall quality. Stand appears in good health. Stand second thinned in 2017.																																			
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<b>74</b>	330 - Low-Density Trees	Nonstocked	12.1			No	Scattered white/jack pine and cherry. Clumps of pine slowly filling in this opening. Scattered pockets of natural red pine regen as well. One small pole aspen clone as well.																																			
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<b>75</b>	4130 - Aspen	Sapling Well	7.0	8	Immature	N/A	Stand final harvested in 2017 summer. Permission granted from landowner to north to cross 50 feet on to private to skid wood out. All white pine and few green ringed aspen were left.																																			
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<b>76</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	16.1	108	111-140	N/A	Stand was thinned in 1997. (Orange Marked) Scattered aspen in the north border of stand.(was left out of thinning ) Decent quality with thick regeneration from 1997 thinning. Crowns still have a good amount of spacing.																																																												
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<b>77</b>	310 - Herbaceous Openland	Nonstocked	1.0			No	Small opening with apple tree																																																												
<b>78</b>	4110 - Sugar Maple Association	Sawtimber Well	22.5	108	81-110	N/A	Stand was marked thinning in 2012, was a shortwood operation. Pipeline splits stand. Hilly terrain. Significant ash component which has EAB and is dead and dieing. Still sound in spring of 2014. Mostly upland although a few seeps and wet pockets are scattered in north end. A few areas were too steep for equipment. Pocket of hemlock in north end, was avoided with last sale.																																																												
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<b>79</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	9.9	72	51-80	N/A	Lowland small pole ash with mix of hardwood and hemlock. Very wet stand with many seeps and standing water. Private to north. Too wet to grow larger diameter trees.																																																												
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<b>80</b>	42110 - Planted Red Pine	Sawtimber Well	8.6	64	111-140	N/A	Red pine plantation was third row thinned in 1997. Stand was second thinned in 2007. (Marked thinning) Stand was thinned again in 2016.																																																												
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82	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	7.4	150	141-170	N/A	Mixed buffer of hemlock and large log hardwood along mostly the east edge of Fletcher creek. Some very nice hemlock stems scattered in. Feeder stream also cuts through stand. Unique stand not suitable for management based on proximity to stream and old growth character.																																																															
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83	4119 - Mixed Northern Hardwoods	Sawtimber Well	29.9	103	81-110	N/A	Mixed variable hardwood with small creeks and seeps throughout. It's an upland stand, but seeps give it lowland character in spots. Lowland seeps come and go, with larger creek valley in the middle of stand. Some pockets of perched wet soils. The north end of the stand is more of a pole stand, while the southern end is heavy to logs. The far north end has a small aspen clone too small to map.																																																															
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84	42110 - Planted Red Pine	Sawtimber Well	14.9	68	111-140	N/A	Stand is part of the 4 corner salvage sale being cut by horn logging. The stand had a crown fire in the summer of 2023 and will be replanted post sale.																																																															
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86	4110 - Sugar Maple Association	Sawtimber Well	9.4	120	111-140	N/A	Small area of large Maple and Cherry which has been unable to be logged in recent decades it appears. Stand has some old growth character. Very nice maple and cherry logs. The west end of stand is on the steep side slope, while the east is on the flat before Flecher Creek. Flecher creek runs on the east border of stand.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**87** 4119 - Mixed Northern Hardwoods Sawtimber Well 133.1 105 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log	16	105	Sugar Maple	Low	Variable	Sapling
Ironwood	5	Pole/Sapling	5		Beech	High	5 - 10 feet	Sapling
Red Maple	6	Log	13		Hemlock	Low	>20 feet	Pole
Basswood	10	Log	14		Black Cherry	Medium	5 - 10 feet	Pole
Beech	5	Log	17		Ironwood	High	Variable	Sapling
American Elm	1	Pole	7		Red Maple	Low	Variable	Sapling
Hemlock	1	Pole	8					
Black Cherry	5	Log/Pole	12					
Bigtooth Aspen	7	Log/Pole	11					

Large hardwood stand was thinned at separate times in 1998 and 1999. No records of stand being thinned prior to that. A few scattered mature aspen clones in stand. Significant variability in pockets, with a few areas which appear to have been opened up as regen gaps prior to the late 90's cuts. Decent quality sugar maple for area. Most of the quality in stand is found in the north and west. Old two tracks and logging roads throughout. Mostly level terrain.

**88** 310 - Herbaceous Openland Nonstocked 5.2 No

Pipeline. Flecher Creek cuts through stand. The stand is wet in spots. Small user made bridge across the creek

**89** 4112 - Maple, Beech, Cherry Association Sawtimber Well 17.1 102 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3	Log	13		Black Cherry	Low	5 - 10 feet	Sapling
Basswood	5	Log	15		Ironwood	High	Variable	Sapling
Beech	5	Log	14		White Ash	Low	Variable	Sapling
Hemlock	2	Log	11		Sugar Maple	Low	Variable	Sapling
Black Cherry	10	Log/Pole	13		Beech	Low	5 - 10 feet	Sapling
Red Maple	15	Log	16		Red Maple	Low	5 - 10 feet	Sapling
Sugar Maple	60	Log	14	102				

Stand was thinned in 1996. (Orange marked thinning) Rolling terrain. Two aged hardwood with even age overstory and sapling understory created from 1996 cut.

**90** 4119 - Mixed Northern Hardwoods Sawtimber Well 8.9 98 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	2	Log/XLog	17		Sugar Maple	Low	Variable	Sapling
Bigtooth Aspen	9	Log	16		Red Maple	Medium	Variable	Sapling
Basswood	7	Log	15		Ironwood	Low	Variable	Sapling
Red Maple	20	Log	12		Hemlock	Low	Variable	Sapling
Hemlock	6	Log	12		Beech	Medium	Variable	Sapling
Sugar Maple	56	Log	13	98				

Middle quality log-pole hardwood with small creek running through the middle of stand. Log aspen clone in stand as well. Variable log overstory with pole-sap hardwood filling in the old gaps.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
<b>91</b>	4110 - Sugar Maple Association	Sawtimber Well	15.1	94	111-140	N/A	Log-pole medium quality hardwood. Was recently acquired as state land. Hilly on south border of stand otherwise flat. West border of stand is lower density and quality.																																																								
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<b>92</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	11.5	85	81-110	N/A	Lowland hardwood with a mix of hardwood, conifer, and scattered log white pine. Occasional dry ridges but largely wet, hummocky ground. Very cold winter needed for harvest																																																								
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<b>94</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.2	95	111-140	N/A	Hawk nest found active in stand at time of sale prep in 2016. Was left as a result as retention. Northern Goshawk																																																								
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<b>95</b>	4130 - Aspen	Sapling Well	14.3	8	Immature	N/A	Stand final harvested in summer 2017.																																																								
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<b>96</b>	42140 - Planted Mixed Pine	Sapling Well	22.6	26	51-80	N/A	Stand is part of the 4 corner salvage sale being cut by horn logging. The stand had a crown fire in the summer of 2023 and will be replanted post sale.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
<b>97</b>	42140 - Planted Mixed Pine	Sapling Well	2.4	26	1-50	N/A	Stand is part of the 4 corner salvage sale. The stand had a crown fire in the summer of 2023 and will be replanted post sale.																														
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<b>98</b>	42120 - Planted Jack Pine	Poletimber Well	8.8	26	51-80	N/A	Jack pine strips planted in 1998. Some mixed in red pine. Oak spp. present occasionally, primarily along edges.																														
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<b>99</b>	42140 - Planted Mixed Pine	Sapling Well	3.0	26	1-50	N/A	Crown burned in a wildfire. Part of the 4 corner salvage sale. Planned for replanting after sale closes																														
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<b>104</b>	42140 - Planted Mixed Pine	Sapling Well	2.3	26	1-50	N/A	Partially burned in the 4 corners fire 2023.																														
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