



# Compartment Review Presentation

## Cadillac Forest Management Unit

Compartment 63096

Entry Year 2026

Acreage: 2,359

County Missaukee

Management Area: High Sand Plains

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**Stand Examiner:** Matt Edison

### Legal Description:

T22N, R5W, Sections 23,24,25,26

### Identified Planning Goals:

Vegetation management in the High Sand Plains Management Area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the aspen age-class distribution. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within the next decade are the need to continue to balance aspen age-class distributions, an expected increase in recreation pressure and invasive species encroachment.

### Soil and topography:

Otisco-Roscommon association. Rubicon-Montcalm-Graycalm association. Muskegon River bottom is Lupton-Tawas association.

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

Solid state ownership, with the exception of SWNW, NWSW section 23. Section 26, NESE and N1/2 of SW. These are listed for desirable acquisitions to block in and consolidate. This is one of the compartments that make up the Porter Ranch Wildlife Research Area.

### Unique Natural Features:

West border is the Muskegon River. Potential for massasauga, wood turtle, spotted turtle, red-shouldered hawk, goshawk, great blue heron rookery, eagle, osprey, Blandings turtle and eastern box turtle. Potential for marsh birds, black tern, common moorhen, yellow rail, least bittern, American bittern and Forsters tern. Potential for ebony boghaunter and secretive locust in bogs.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

### Watershed and Fisheries Considerations:

Fisheries Division's Muskegon River Watershed Assessment and Plan recommends protection/restoration of natural vegetation along all water bodies in the watershed. In addition, coldwater streams are limited in this watershed and very important to the overall water quality of the Muskegon River. For coldwater streams, I recommend that all aspen management stands maintain a 300 ft buffer strip to discourage the establishment of beaver dams, due to the detrimental affects of beaver dams on water quality. On all other water bodies, I recommend a 100 ft buffer strip be maintained to provide natural deadwood inputs into the stream and for long-term ecological health of the system. Nellsville Ditch drains most of the area to the Muskegon River. (Richard O'Neal)

### Wildlife Habitat Considerations:

This compartment contains part of the Houghton Lake State Wildlife Research Area (formerly Porter Ranch Wildlife Research Station). Proposed treatments must take into consideration any potential wildlife research-related concerns. This area is a large wintering complex for deer. Major concerns center on regenerating the jack pine to provide thermal cover and maintaining the blueberry ground cover. The combination of conifer cover, mixed deciduous timber, and blueberry provide valuable habitat for many wildlife species. Mixed habitat types and age classes in the lowland area along the Muskegon River offers valuable habitat and a movement corridor for bobcat, eagle, pileated woodpecker, and other wildlife species. 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. Generally, wildlife goals are to maintain lowland conifer and to promote oak and aspen adjacent to lowlands, though the high water table throughout this area presents a challenge in establishing regeneration. Creation of brush piles near lowlands, protection of mast bearing shrubs and provision of

coarse woody debris are also desired. Management will also seek to promote emergent wetland types to support numerous wetland birds in this swamp complex where applicable. Featured species of special interest are black bear, deer, snowshoe hare, woodcock and golden-winged warbler. (E. Victory 7/18/14)

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

No known potential exists for commercial metallic mineral production in this part of the state. The closest known active sand/gravel operations are just under three miles west. Much of the compartment is covered by wetlands, which could limit potential for development of sand & gravel, but there may be some potential for development in the southeast end of the compartment. No oil & gas production, current or past, exists within one mile of the compartment, and potential for future oil & gas drilling within the compartment is considered low at this time. There has been no recent well permit activity in the area, and there is no current leasing activity involving State-owned oil & gas rights. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

### **Vehicle Access:**

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. Proposed Limited access to most of the compartment.

### **Survey Needs:**

None known.

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

There are approximately 3.5 miles of snowmobile trail (trail 6/7) along the southern & western portions of this compartment. This trail is designated snowmobile only and not designated ORV route during the non-winter season. It this trail is used for hauling timber, encourage scheduling forest treatments during non-winter months to reduce impacts to snowmobile users. Furthermore, appropriate snowmobile trail protection specifications should be used in timber sale contracts that may impact the trail. Dispersed camping, and hunting are common recreational activities throughout this compartment. The Muskegon River offers canoeing and fishing opportunities. (T.M.N. 3/14).

### **Fire Protection:**

This compartment has the potential for large fire growth due to the pine fuels. Access would be difficult in many areas of this compartment due to the seasonally wet soils and lack of good access. Suppression would be limited in these areas. Dispersed camping is a concern with abandoned campfires.

### **Additional Compartment Information:**

None known.

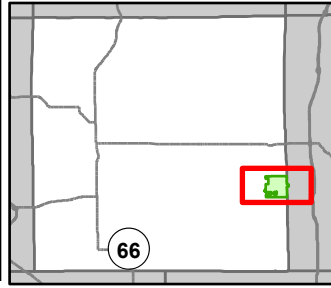
### **The following reports from the Inventory are attached:**

- 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**

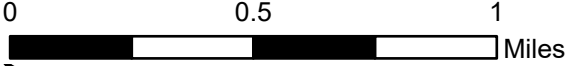
### **The following information is displayed, where pertinent, on the attached compartment maps:**

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

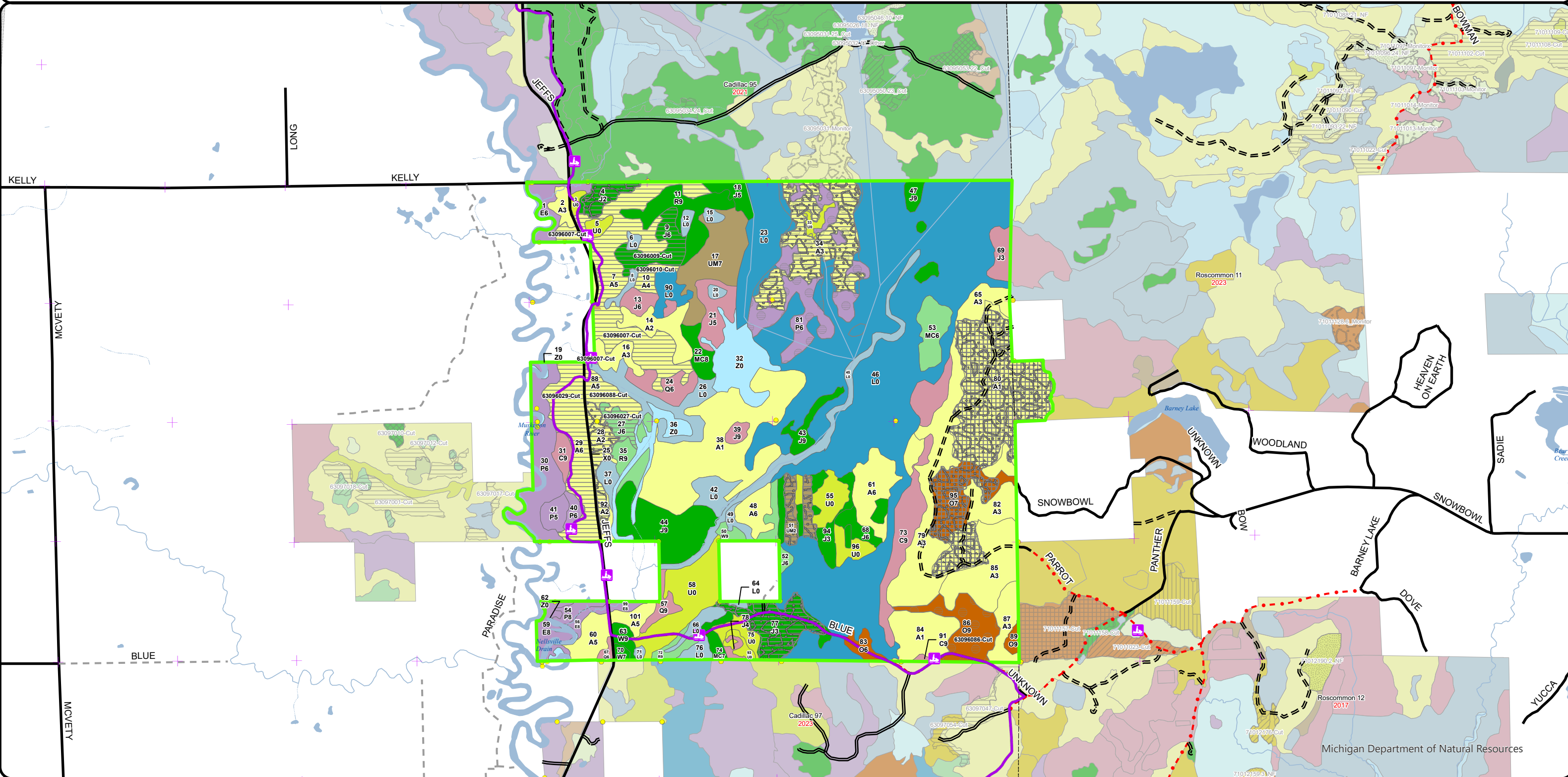
Cover Type & Treatments Map



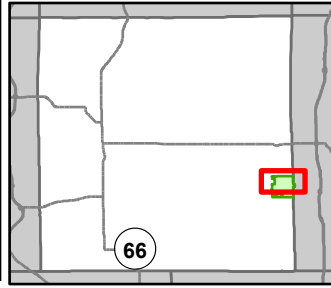
Compartment: 63096  
 T22N, R4W, Sec: 19  
 County: Missaukee  
 Unit: Cadillac  
 Mgmt Area: High Sand Plains  
 YOE: 2026  
 Acres: 2358.8 GIS Calculated  
 Examiner: Matt Edison  
 Map Revised: 7/18/2024  
 Map Phase: Web Post



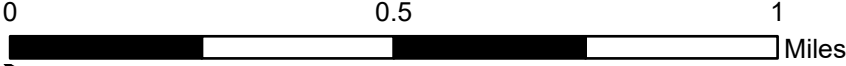
- |  |                                   |                                 |                                   |                                    |
|--|-----------------------------------|---------------------------------|-----------------------------------|------------------------------------|
| ▲ Berms                                  | --- County - Gravel Road          | ▭ Compartment Boundary          | ■ 412 - Oak Types                 | ■ 330 - Low Density Trees          |
| ▭ Culvert                                | --- County - Dirt Road (Seasonal) | ▭ Counties                      | ■ 413 - Aspen Types               | ■ 500 - Water                      |
| ● Survey Grade Corners                   | --- Private - Dirt / Gravel Road  | ▭ Clearcut (w/Reserves)         | ■ 421 - Planted Pines             | ■ 622 - Lowland Shrub              |
| ✚ Remonumented Section Corners           | --- Intermittent Stream           | ▭ Patch/Strip Cut (Femelschlag) | ■ 422 - Natural Pines             | ■ 629 - Mixed Non-forested Wetland |
| 🛷 Snowmobile Trails                      | --- Lake/Pond                     | ▭ Clearcut (w/Reserves)         | ■ 430 - Upland Mixed Forest       | --- Designated Snowmobile Trails   |
| == DNR - Secondary Forest Road           | --- Perennial River               | ▭ Seed Tree (w/Reserves)        | ■ 611 - Lowland Deciduous Forest  |                                    |
| == DNR - Forest Access Route             | --- Lakes and Rivers              | ▭ Patch/Strip Cut (Femelschlag) | ■ 612 - Lowland Coniferous Forest |                                    |
| == Federal / State / County - Paved Road | --- Pipeline                      | ▭ Regeneration Survey           | ■ 122 - Roads/Parking Lot         |                                    |



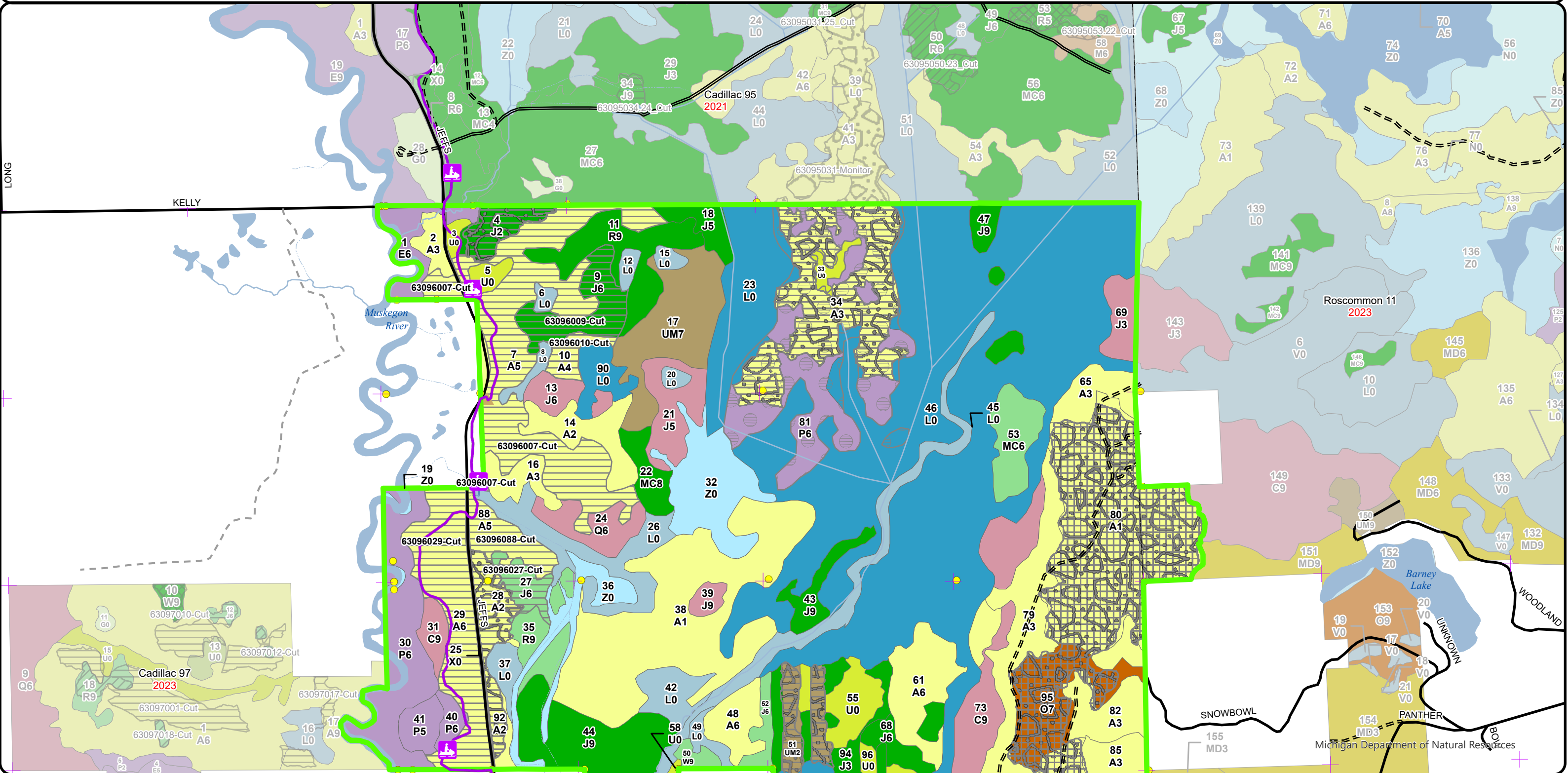
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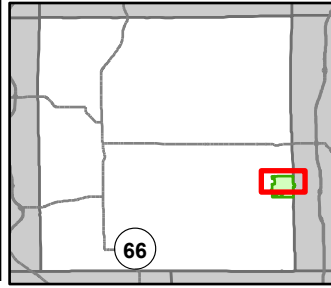
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- |                                       |                              |                                |                                  |
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| Culvert                               | Intermittent Stream          | Patch/Strip Cut (Femelschlag)  | 122 - Roads/Parking Lot          |
| Survey Grade Corners                  | Lake/Pond                    | Regeneration Survey            | 330 - Low Density Trees          |
| Remonumented Section Corners          | Perennial River              | 412 - Oak Types                | 500 - Water                      |
| Snowmobile Trails                     | Lakes and Rivers             | 413 - Aspen Types              | 622 - Lowland Shrub              |
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| DNR - Forest Access Route             | Counties                     | 422 - Natural Pines            | Designated Snowmobile Trails     |
| Federal / State / County - Paved Road | Clearcut (w/Reserves)        | 430 - Upland Mixed Forest      |                                  |
|                                       | Clearcut (w/Reserves)        | 611 - Lowland Deciduous Forest |                                  |



Stand Boundary Map

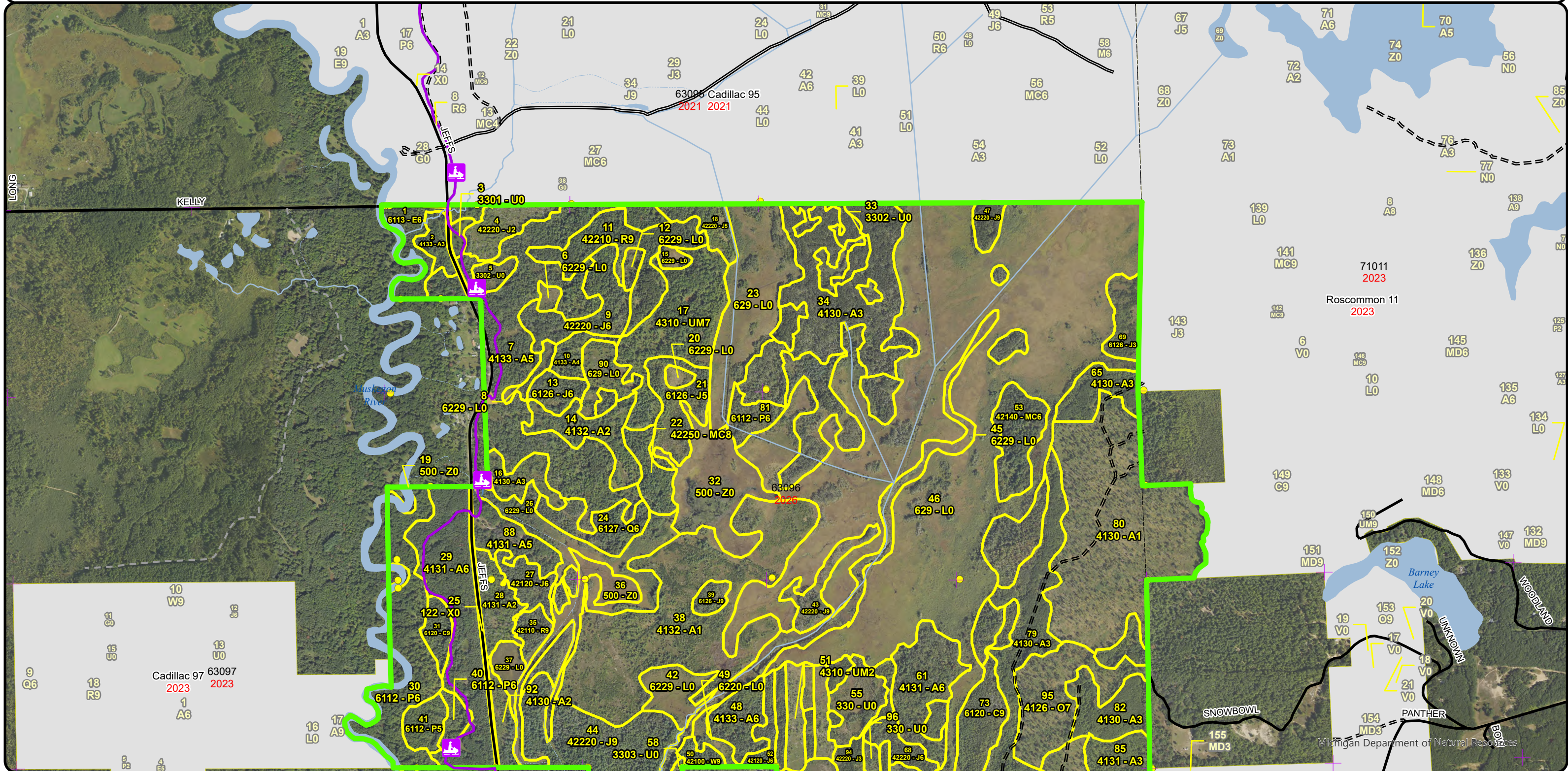


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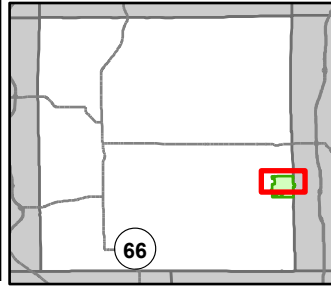


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**Special Conservation Areas & Site Conditions Map**

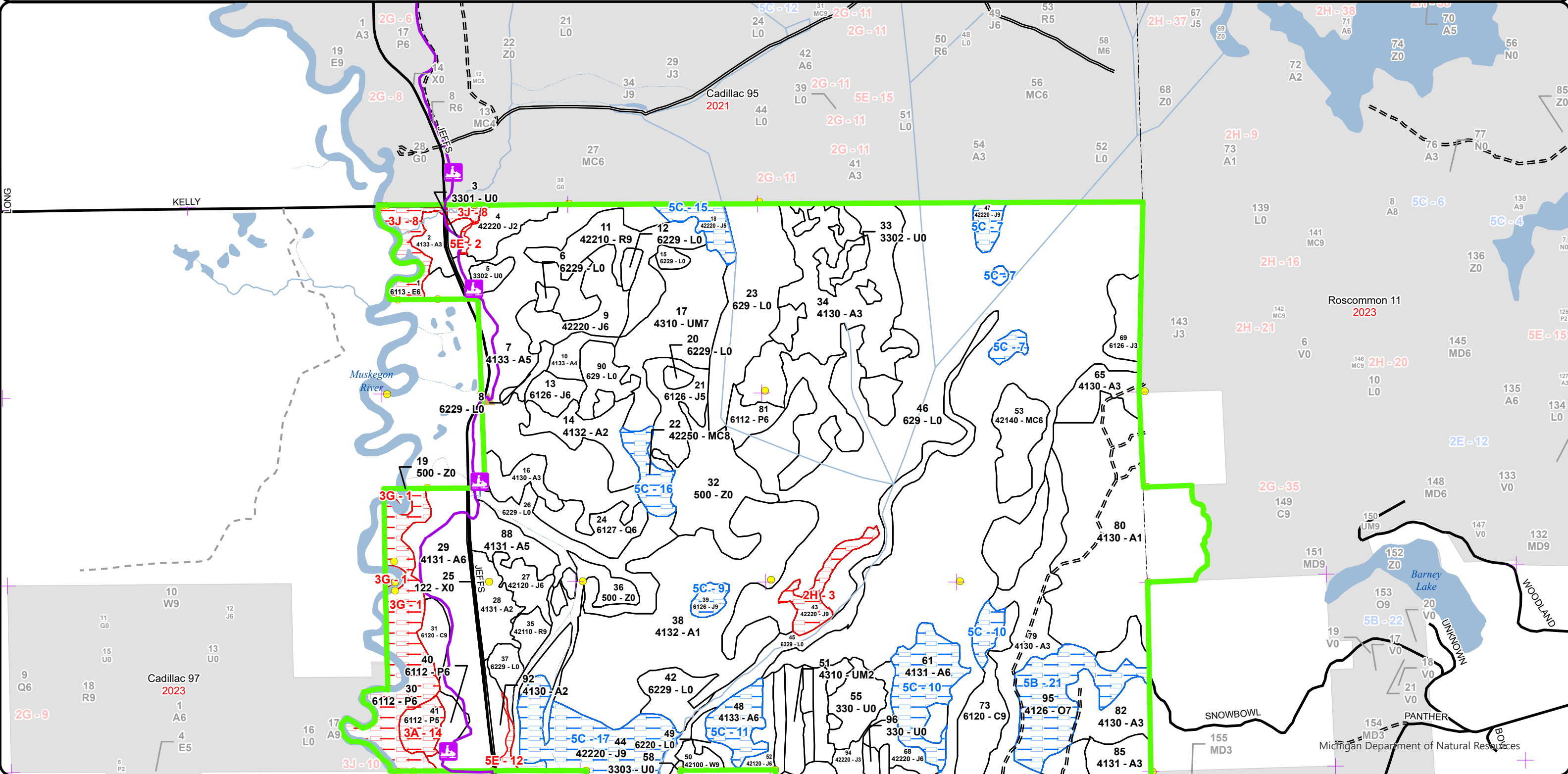
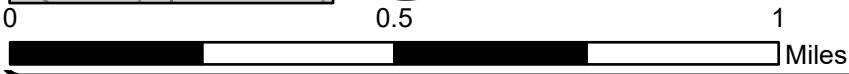


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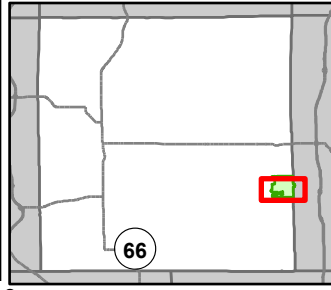
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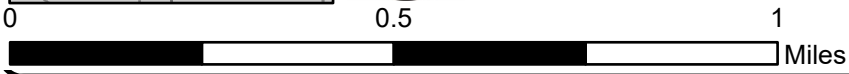
- Stand Boundaries
- Designated Snowmobile Trails
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention



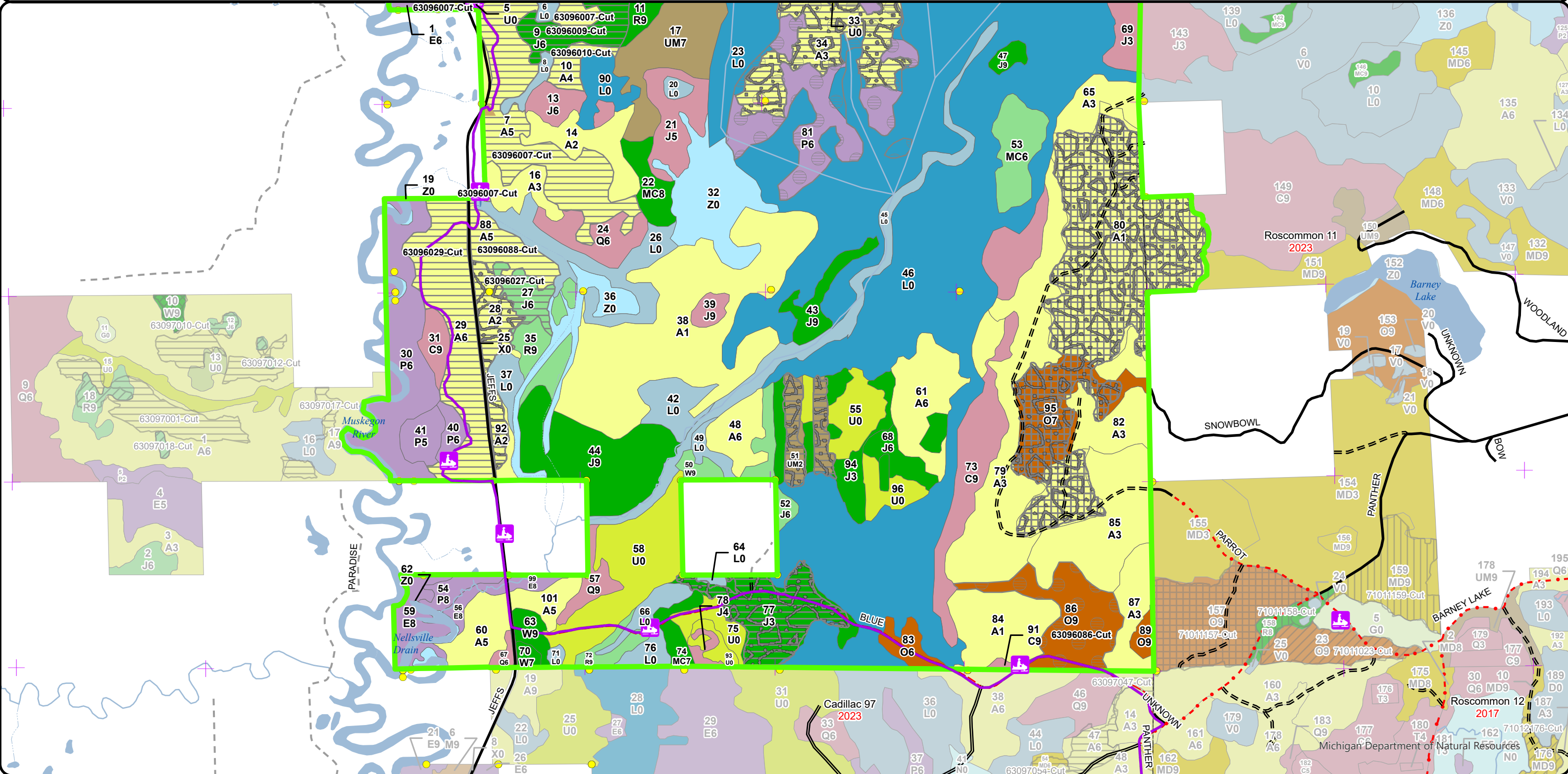
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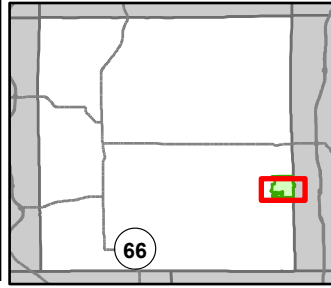
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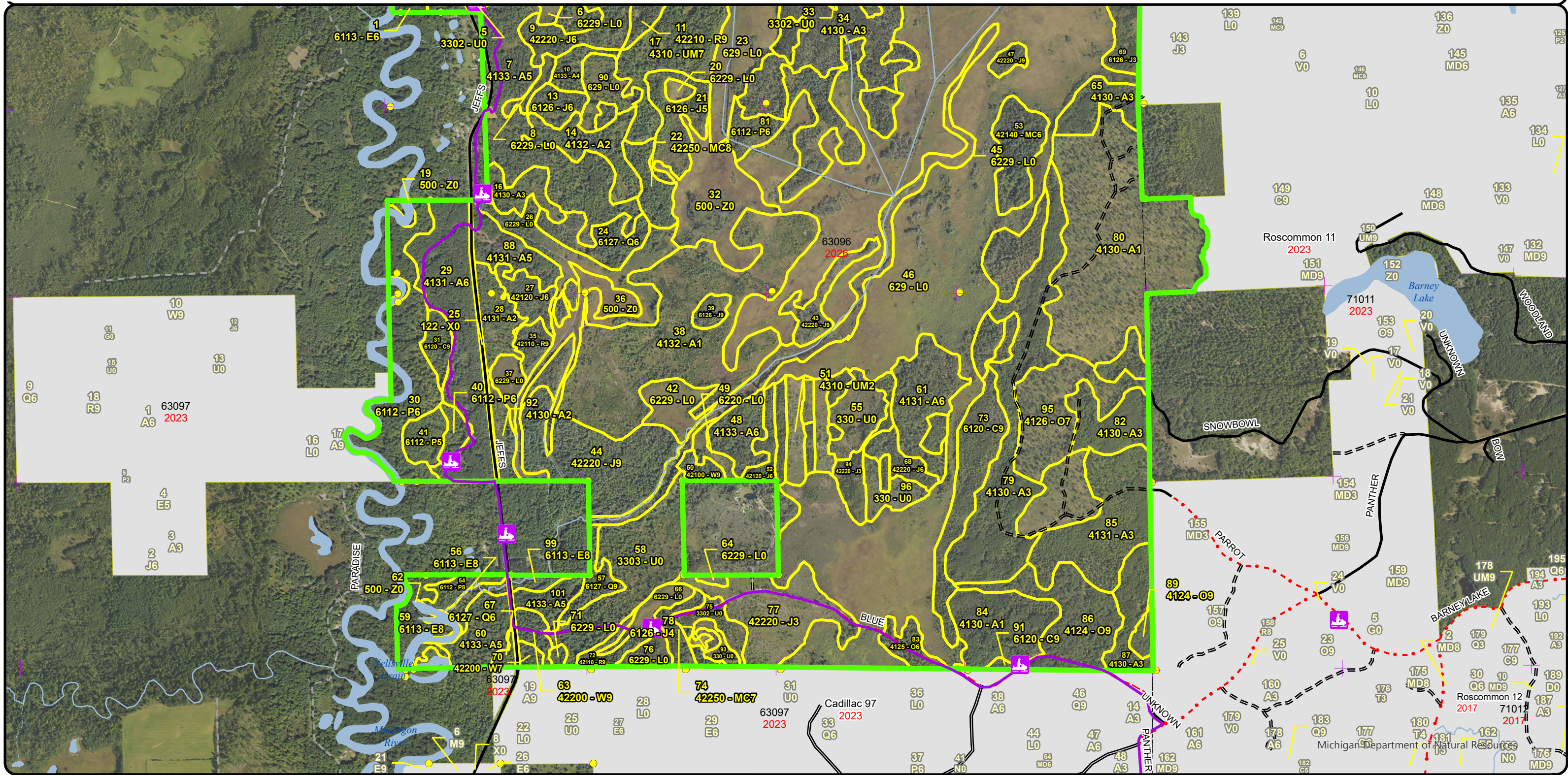
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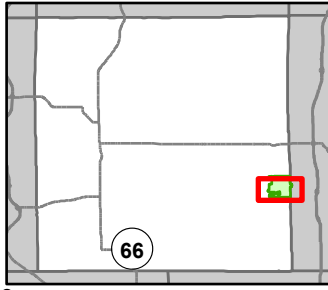
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**Special Conservation Areas  
& Site Conditions Map**

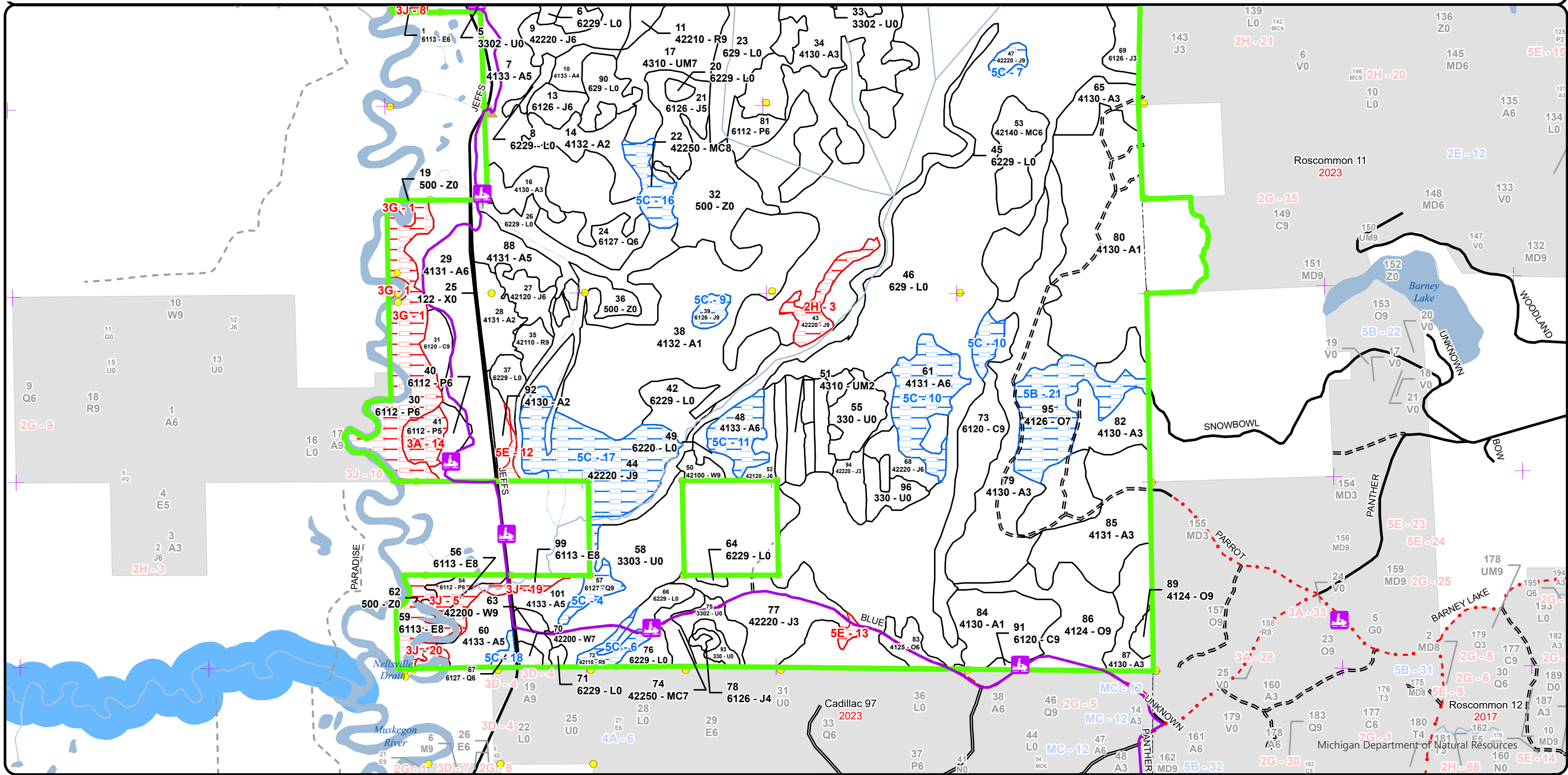
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- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Designated Snowmobile Trails



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	266	122	199	0	0	192	15	7	0	0	0	0	0	0	0	0	0	800
Cedar	0	0	0	0	0	0	0	0	0	7	48	0	0	0	0	0	0	0	55
Jack Pine	0	49	0	34	0	19	77	24	48	0	0	0	0	0	0	0	0	0	251
Low-Density Trees	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92
Lowland Aspen/Balsam Poplar	0	0	0	0	5	62	0	0	53	0	0	0	0	0	0	0	0	0	119
Lowland Conifers	0	0	0	0	0	0	15	0	2	8	0	0	0	0	0	0	0	0	25
Lowland Deciduous	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	35
Lowland Shrub	679	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	679
Natural Mixed Pines	0	0	0	0	0	0	0	7	0	0	11	0	0	0	0	0	0	0	18
Oak	0	0	0	0	0	0	0	8	0	0	34	37	0	0	0	0	0	0	79
Planted Mixed Pines	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	19
Red Pine	0	0	0	0	0	0	0	30	12	7	0	0	0	0	0	0	0	0	48
Upland Mixed Forest	0	15	0	0	0	0	0	0	43	0	0	0	0	0	0	0	0	0	58
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
White Pine	0	0	0	0	0	0	0	4	2	6	0	0	0	0	0	0	0	0	12
<b>Total</b>	<b>842</b>	<b>330</b>	<b>122</b>	<b>233</b>	<b>5</b>	<b>81</b>	<b>303</b>	<b>88</b>	<b>167</b>	<b>63</b>	<b>93</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2361</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Compartment 96

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 2,359

Commercial Harvest - 229  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	165	0	0	0	0	0	0	0	0	165
Jack Pine	30	0	0	0	0	0	0	0	0	30
Oak	0	0	34	0	0	0	0	0	0	34
<b>Total</b>	<b>195</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>229</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	229	0	0	0	0	0	0	0	0	229
Next Step	0	0	0	0	0	0	229	0	0	229
<b>Total</b>	<b>229</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>229</b>	<b>0</b>	<b>0</b>	<b>458</b>



Stand	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>7</b>	<b>63096007-Cut</b>	91.9	4133 - Aspen, Mixed Pine	Poletimber Medium	59	111-140	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all tress down to 2" DBH except red and white pine down to 4" DBH. Mark to leave no more than 10 BA of oak, red pine and white pine. Patch retention will also be included. Total retention in stand will not exceed 3-10%.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any mix of Oak, Aspen, Maple, Birch, Cherry, Beech, Pine, Hemlock, or Cedar</p> <p><u>Other Comment:</u> Apply oak wilt spec. as well. Treatment Area may differ from original depending on actual ground conditions during prep.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>											
<b>9</b>	<b>63096009-Cut</b>	20.9	42220 - Natural Jack Pine	Poletimber Well	57	111-140	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all tress down to 2" DBH except red and white pine down to 4" DBH. Mark to leave no more than 10 BA of oak, red pine and white pine. Patch retention will also be included. Total retention in stand will not exceed 3-10%.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Jack Pine with any mix of Oak, Aspen, Maple, Birch, Cherry, Beech, Pine, Hemlock, or Cedar</p> <p><u>Other Comment:</u> Treatment Area may differ from original depending on actual ground conditions during prep.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>											
<b>10</b>	<b>63096010-Cut</b>	6.5	4133 - Aspen, Mixed Pine	Poletimber Poor	71	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription Specs:</u> Treat portions of this stand that are on high ground and higher stocking levels. Harvest all tress down to 2" DBH except red and white pine down to 4" DBH. Leave some white oak if present. Provide for 3-10% retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any mix of Oak, Aspen, Maple, Birch, Cherry, Beech, Pine, Hemlock, or Cedar</p> <p><u>Other Comment:</u> Avoid harvest in winter for snowmobile trail considerations. Oak wilt spec as well. Treatment Area may differ from original depending on actual ground conditions during prep.</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
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<b>27 63096027-Cut</b>	9.4	42120 - Planted Jack Pine	Poletimber Well	57	111-140	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
------------------------	-----	---------------------------	-----------------	----	---------	---------	----------	--------------------------	-----------	----

Prescription Final harvest all trees regardless of merchantability. Mark to leave white oak and some white pine not to exceed 10 BA. Leave some Jack Pine tops for regeneration.  
Specs:

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

Acceptable Regen: Preferably jack pine, but any mix of Oak, Aspen, Maple, Birch, Cherry, Beech, Pine, Hemlock, or Cedar

Other Apply snowmobile trail protection spec.

Comment: This stand is somewhat lower ground, so treatment area may differ from original depending on actual ground conditions during prep. WLD suggests to PRD to consider rerouting snowmobile trail out to road right of way due to Pitman Robertson funding.

Site Condition

Proposed Start Date: 10/1 /2025

<b>29 63096029-Cut</b>	51.5	4131 - Aspen, Oak	Poletimber Well	50	111-140	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
------------------------	------	-------------------	-----------------	----	---------	---------	-------------------------	-----------------------------	-----------	----

Prescription Harvest all trees down to 2" DBH except white and red pine harvest down to 4" DBH. Mark to leave no more than 10 BA of white oak and white pine. In addition, leave some island retention.  
Specs:

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

Acceptable Regen: Any mix of Oak, Aspen, Maple, Birch, Cherry, Beech, Pine, Hemlock, or Cedar

Other Apply specs. for snowmobile trail considerations. Place retention patches per policy. Oak wilt spec as well.

Comment: WLD suggests to PRD to consider rerouting snowmobile trail out to road right of way since this was purchased by Pitman Robertson funds.

Site Condition

Proposed Start Date: 10/1 /2025

<b>86 63096086-Cut</b>	33.9	4124 - Red with White Oak	Sawtimber Well	100	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4319 - Mixed Upland Forest	Even-Aged	No
------------------------	------	---------------------------	----------------	-----	---------	---------	-----------------------------------	----------------------------	-----------	----

Prescription Femelschlag cut patch clearcuts across the stand to equal approx. 50% of the stand area. Cut all trees within each patch down to a 2" dia.  
Specs: Create 6-10 patches.

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

Acceptable Regen: Any mix of Oak, Aspen, Maple, Birch, Cherry, Beech, Pine, Hemlock, or Cedar.

Other

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
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88	63096088-Cut	14.8	4131 - Aspen, Oak	Poletimber Medium	61	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
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Prescription Harvest all tress down to 2" DBH except white and red pine harvest down to 4" DBH. Leave standard area retention.  
Specs:

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

Acceptable Regen: Any mix of Oak, Aspen, Maple, Birch, Cherry, Beech, Pine, Hemlock, or Cedar

Other Apply oak wilt spec as well.

Comment: Treatment Area may differ from original depending on actual ground conditions during prep.

Site Condition

Proposed Start Date: 10/1 /2025

**Total Treatment Acreage Proposed: 228.9**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Matt Edison : Examiner

Compartment: 96  
Year of Entry: 2026

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

	Availability for Management			Dominant Site Conditions								
	Acres	Available	With Condition	5B	5C	2G	2H	3A	3G	3J	5E	
801	752	<b>46</b>	2	Aspen	<b>46</b>	0				0	2	
55	55	<b>0</b>	0	Cedar								
250	166	<b>71</b>	13	Jack Pine	<b>71</b>		11				2	
92	92	<b>0</b>	0	Low-Density Trees								
119	58	<b>0</b>	61	Lowland Aspen/Balsam Poplar				9	47	6		
25	15	<b>10</b>	0	Lowland Conifers	<b>10</b>							
35	0	<b>0</b>	35	Lowland Deciduous						35		
678	678	<b>0</b>	0	Lowland Shrub			0					
18	7	<b>11</b>	0	Natural Mixed Pines	<b>11</b>							
79	45	<b>34</b>	0	Oak	<b>34</b>							
19	19	<b>0</b>	0	Planted Mixed Pines								
48	41	<b>6</b>	0	Red Pine	<b>6</b>							
57	57	<b>0</b>	0	Upland Mixed Forest								
7	7	<b>0</b>	0	Urban						0		
64	64	<b>0</b>	0	Water								
12	12	<b>0</b>	0	White Pine								
2,359	2,069	<b>179</b>	112	Total Forested Acres	<b>34</b>	<b>145</b>	0	11	9	47	41	5
	88%	<b>8%</b>	5%	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	<b>3G: Other Influence zones - See comments</b>	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Muskegon River Influence Zone.							
2	Unavailable	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Matt Edison : Examiner

Compartment: 96  
Year of Entry: 2026

3	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is a small island of mature timber located by lowland grasses, jack pine regeneration.							
4	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	10	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> upland forested island surrounded by lowland grasses and shrubs. retain for diversity. Tough access for low volume of timber.							
8	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lowland area within the Muskegon River Floodplain. Current conditions are not favorable for harvest.							



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Matt Edison : Examiner

Compartment: 96  
Year of Entry: 2026

9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for stand to north.							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit**  
**Matt Edison : Examiner**

**Compartment: 96**  
**Year of Entry: 2026**

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit**  
**Matt Edison : Examiner**

**Compartment: 96**  
**Year of Entry: 2026**

21	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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	6113 - Lowland Maple	Poletimber Well	14.6	89	81-110	N/A	Muskegon river valley. Wet.																																														
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2	4133 - Aspen, Mixed Pine	Sapling Well	6.4	22	Immature	N/A																																															
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3	3301 - Low Density Deciduous Trees	Nonstocked	2.4		Unspecified	No	Low shrub opening. Scattered pole size cherry. Scrub WP. Couple JP																																														
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4	42220 - Natural Jack Pine	Sapling Medium	12.3	7	Immature	N/A	Stand final harvested in 2018 as part of Jeff Road Mix #63-036-16. Maple advanced regen left in pockets.																																														
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5	3302 - Low Density Conifer Trees	Nonstocked	4.8			No	Scattered white and jack pine. Dominated by bog laurel.																																														
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6	6229 - Mixed lowland shrub	Nonstocked	2.2			No	Lowland bog laurel.																																														
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7	4133 - Aspen, Mixed Pine	Poletimber Medium	94.4	59	111-140	N/A	Aspen dominated stand. Low quality and mostly low density with pockets of well stocking with slightly higher elevation. Scattered oak, white pine and red pine. Some pockets dominated by red pine and oak.																																														
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8	6229 - Mixed lowland shrub	Nonstocked	3.6			No																																															
9	42220 - Natural Jack Pine	Poletimber Well	20.9	57	111-140	N/A	Jack pine dominated stand with pockets of red pine. Some red oak and white pine scattered throughout. Jack Pine is relatively in decline.																																														
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10	4133 - Aspen, Mixed Pine	Poletimber Poor	6.5	71	51-80	N/A	Low density aspen with jack, white and red pine. Red oak also present.																																														
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13	6126 - Lowland Jack Pine	Poletimber Well	9.4	51	81-110	N/A	Low wet jack pine in west. Red pine and jack pine in the east. Hold for 10 and check																																														
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14	4132 - Aspen, Jack Pine	Sapling Medium	18.6	26	Immature	N/A	Low density jack pine in the north. Aspen dominated regeneration in the south. year of origin is best guess of 1998.																																														
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16	4130 - Aspen	Sapling Well	10.4	12	Immature	N/A	Aspen/ red maple/ oak regen. Scattered oak and pine seed trees.																																												
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17	4310 - Pine, Oak Mix	Sawtimber Poor	42.6	72	1-50	N/A	Regenerating stand. Harvested in 2009-2010 (Porter Combo 63-066-06-01). Scattered red pine and mixed oak throughout. Regeneration is scattered and inconsistent. Mostly red maple stump sprouts with some aspen. Complete canopy closure is on the low end of 25-50% covered. Variable canopy closure throughout. Very inconsistent stand. 2024 Agree 100%.																																												
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18	42220 - Natural Jack Pine	Poletimber Medium	9.4	64	51-80	N/A	Jack pine is falling out. oak is taking over along with mixed pine and red maple. Too late to harvest.																																												
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19	500 - Water	Nonstocked	2.8			No	Muskeon river.																																												
20	6229 - Mixed lowland shrub	Nonstocked	2.2			No	Lowland shrub																																												
21	6126 - Lowland Jack Pine	Poletimber Medium	18.9	48	51-80	N/A	Lowland jack pine. Younger pockets of jack pine where it is seeding in throughout the bog. Lots of wet ground for limited volume. Leave for now.																																												
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22	42250 - Pine, Oak	Sawtimber Medium	10.6	96	1-50	N/A	Oak pine mix with white pine dominating the understory. Overstory oak is falling out. Let understory white pine mature.																																					
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23	629 - Mixed non-forested wetland	Nonstocked	48.0			No	lowland grasses with mixed shrubs																																					
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24	6127 - Lowland Pine	Poletimber Well	15.1	53	51-80	N/A	Lowland and upland white pine. Variable heights and diameters. Check to harvest next entry.																																					
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25	122 - Road/Parking Lot	Nonstocked	7.2			No	JEFF'S ROAD																																					
26	6229 - Mixed lowland shrub	Nonstocked	29.5			No	mixed lowland grasses and shrubs																																					
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27	42120 - Planted Jack Pine	Poletimber Well	12.2	57	111-140	N/A	Jack pine planted site. This may be considered a lowland stand. Shallow water table.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
28	4131 - Aspen, Oak	Sapling Medium	13.3	7	Immature	N/A	Stand was harvested in 2018 as part of Jeff Road Mix #63-016-16, All oak was left. Oak left was poor quality. Oak concentrated in north.																																													
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29	4131 - Aspen, Oak	Poletimber Well	51.5	50	111-140	N/A	Aspen dominated stand with a scattered balsam fir, white pine, oak, and red pine. Heavier pine component in southern portion of stand. Cutting records indicate a harvest completed in 1973. All merchantable aspen, black ash, elm, red maple and paper birch were harvested. Harvest this entry. Maybe split up due to stand size. Final harvest with retention pockets and some white pine.																																													
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30	6112 - Lowland Aspen	Poletimber Well	46.8	72	81-110	N/A	Muskegon river valley. Lowland deciduous stand. Individual species density various throughout stand, due to slight elevation changes. Stay out of this																																													
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31	6120 - Lowland Cedar	Sawtimber Well	6.9	88	51-80	N/A	Lowland type. Cedar throughout with mixed conifer and deciduous. Muskegon River flood plain.																																													
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32	500 - Water	Nonstocked	35.8			No	beaver flooding																																													
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33	3302 - Low Density Conifer Trees	Nonstocked	4.4			No	Lowland site with sparse jack pine seeding in.																																													
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34	4130 - Aspen	Sapling Well	68.9	1	Immature	N/A	Stand was thinned in 2022. #63-030-21 Raymond's Ridge Jack																																													
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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>35</b>	42110 - Planted Red Pine	Sawtimber Well	11.5	72	111-140	N/A	Red Pine that is looking ok. Hold on for one more entry then restart.																												
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<b>36</b>	500 - Water	Nonstocked	19.2			No	water and lowland grasses						
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<b>37</b>	6229 - Mixed lowland shrub	Nonstocked	6.3			No	loland big laurel dominated non-forested.		
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<b>38</b>	4132 - Aspen, Jack Pine	Sapling Poor	112.4	14	Immature	N/A	Stand was treated as part of #63-018-07 "Hydric Pilot JP". Sale slash was chipped. Was closed in 2010. Mixed regen as previous notes state. Previous Notes; jack pine, aspen and oak regeneration stand. Jack pine regeneration dominated lower areas. Pockets and aspen regeneration throughout. Residual oak and pine scattered.																			
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<b>39</b>	6126 - Lowland Jack Pine	Sawtimber Well	4.2	68	81-110	N/A	Lowland jack pine pocket. Appears to have been left as a retention island. Some wind damage mortality throughout. Stand will convert to a jack pine oak type. Mortality throughout. Not much here to chase. Let nature take its course.																							
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<b>40</b>	6112 - Lowland Aspen	Poletimber Well	5.0	39	141-170	N/A	Lowland aspen cover type with significant amount of balsam fir. Cedar and Hemlock also present. Below grade of road. Definitely hold for now.																																						
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41	6112 - Lowland Aspen	Poletimber Medium	8.5	49	51-80	N/A	Muskegon river valley. EAB present. Lowland ash, aspen, red maple stand with balsam fir and some cedar. Not full canopy closure due to high water table and dead ash.																																										
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42	6229 - Mixed lowland shrub	Nonstocked	12.5			No																																											
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43	42220 - Natural Jack Pine	Sawtimber Well	10.7	69	51-80	N/A	This stand is slightly higher elevation than the surrounding lowland type. May even be considered lowland. No access due to lowland surrounding this stand. Nice retention island. Will most likely convert to a mix of oak and jack pine. Slash is in the form of blow downs.																																										
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44	42220 - Natural Jack Pine	Sawtimber Well	47.8	72	81-110	N/A	Natural jack pine stand with pockets dominated by white pine and pockets dominated by red pine. Also, scattered red and white pine throughout. Some canopy gaps within the jack pine, most likely due to age and high-water table. Regeneration is found mainly in pockets. Hold on until adjacent stands to east are treated next entry. Will require crossing wetland.																																										
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45	6229 - Mixed lowland shrub	Nonstocked	33.2			No	water flowage.																																										
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46	629 - Mixed non-forested wetland	Nonstocked	504.5			No	Dominated by lowland grasses and sedges. Pockets of alder, willow and open water. there is a trace of scattered trees in minor elevation changes.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Trace		Pole	
								Leatherleaf	Medium		Tall Shrub	
								Tag Alder	Low		Tall Shrub	
Willow spp.	Low		Tall Shrub									
47	42220 - Natural Jack Pine	Sawtimber Well	10.1	58	81-110	N/A	Jack pine islands.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	2	Pole/Log	8	
								White Pine	5	Log	12	
								Red Pine	10	Log	14	
Jack Pine	80	Log	11	58								
Red Oak	3	Pole	6									
Sub-Canopy Species	Density	Avg. Height	Size									
Red Oak	Low	Variable	Sapling									
48	4133 - Aspen, Mixed Pine	Poletimber Well	13.8	50	111-140	N/A	Aspen oak mix. Stand dominated by poor quality aspen that is 40 years old. scattered oak seed trees. Heavier pine edge to the north. Check in 10 years.  Previous: Forest treatment proposal was found for this stand. It was to be harvested in 1973. All aspen, red maple and birch were to be cut. FTP indicated this stand had a BA 30 sq ft. The harvest was proposed to promote regeneration. Stand was approximately 40 years old at the time of harvest, and was noted as poor quality aspen.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	60	Pole	7	50
								Black/Red (Hybrid) Oak	15	Log/Pole	13	
								Jack Pine	13	Pole/Log	8	
White Pine	12	Log/Pole	16									
Sub-Canopy Species	Density	Avg. Height	Size									
Black/Red (Hybrid) Oak	Low	Variable	Sapling									
White Pine	Low	Variable	Seeding									
49	6220 - Alder/willow	Nonstocked	4.2			No	Lowland shrub with scattered jack pine					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Low		Pole	
50	42100 - Planted White Pine	Sawtimber Well	4.0	66	111-140	N/A	Planted White pine. A few red pine and oak, with traces of black cherry.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black/Red (Hybrid) Oak	2	Log	12	
								Red Pine	2	Log	16	
								White Pine	96	Log/Pole	13	66
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	Low	Variable	Sapling									
51	4310 - Pine, Oak Mix	Sapling Medium	14.9	7	Immature	N/A	Stand was final harvested in 2018 as part of Jeff Road Mix #63-036-16. Short wood operation. Some understory was worked around. Was mostly jack pine with oak understory.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	50	Sapling	1	
Jack Pine	50	Sapling	1	7								



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52	42120 - Planted Jack Pine	Poletimber Well	9.4	52	51-80	N/A	Planted Jack pine with scattered deciduous and coniferous trees. Black cherry present.																																																		
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53	42140 - Planted Mixed Pine	Poletimber Well	18.8	54	1-50	N/A	Planted white, red and jack pine stand. Stand appears to have been planted. Planting row can be hard to see. White pine and red pine were almost planted in pockets. Some gaps throughout the stand. Looked at stand from across wetland.																																																		
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54	6112 - Lowland Aspen	Sawtimber Medium	5.9	72	81-110	N/A	Aspen is starting to fall out of the over story. White pine regeneration is thick in the understory. Stand will convert to a pine stand.																																																		
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55	330 - Low-Density Trees	Nonstocked	16.4	0	Unspecified	No	Split out from old stand that was treated the same. This stand is the wettest area and has sparse stocking, Harvested in 1998 (63-067-97-01 Coyote Jack). Pockets of sparse regeneration.																																																		
56	6113 - Lowland Maple	Sawtimber Medium	4.1	82	81-110	N/A	Creek bottom dominated by red maple. White pine found on edges.																																																		
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57	6127 - Lowland Pine	Sawtimber Well	7.8	84	51-80	N/A	White and red pine. White pine dominates stand with scattered single red pine. Red pine Dominated pocket in the eastern portion of stand.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
58	3303 - Mixed Low Density Trees	Nonstocked	43.1		Unspecified	4319 - Mixed Upland Forest	Harvested area in 2010. Aspen, red maple, and jack pine regeneration already present. Scattered log white and red pine. Scattered pole size white pine.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low		Sapling	
								Quaking Aspen	Medium		Sapling	
								Red Pine	Low		Log	
								White Pine	Trace		Log	
Jack Pine	Medium		Seeding									
59	6113 - Lowland Maple	Sawtimber Medium	13.0	82	51-80	N/A	Muskegon river valley. Low wet.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bur Oak	12	Pole	7	
								Black Ash	10	Pole	7	
								Red Oak	10	Log	14	
								Red Maple	68	Log/Pole	10	82
Sub-Canopy Species	Density	Avg. Height	Size									
Willow spp.	Medium	< 5 feet	Tall Shrub									
Alder	Medium	< 5 feet	Tall Shrub									
Red Maple	Low	Variable	Sapling									
60	4133 - Aspen, Mixed Pine	Poletimber Medium	15.2	22	Immature	N/A	This stand was thinned in 2000. Currently an aspen/white pine stand with variable regeneration present. Previous: Seed tree harvested in 2000					
								Canopy Species	% Cover	Size Class	DBH	Age
								Balsam Fir	5	Sapling	3	
								White Pine	30	Pole	7	
								Quaking Aspen	60	Sapling	4	22
								Red Oak	5	Log/XLog	17	
61	4131 - Aspen, Oak	Poletimber Well	32.5	50	81-110	N/A	Aspen-oak mix with scattered pine present.  Previous: Forest treatment proposal was found for this stand. It was to be harvested in 1973. All aspen, red maple and birch were to be cut. FTP indicated this stand had a BA 30 sq ft. The harvest was proposed to promote regeneration. No sale map was found. Harvest may have included stand 64.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	5	Pole	7	
								Red Oak	15	Log	16	
								Black/Red (Hybrid) Oak	15	Log/Pole	13	
								White Pine	5	Log	17	
Quaking Aspen	60	Pole	6	50								
Sub-Canopy Species	Density	Avg. Height	Size									
Red Oak	Low	5 - 10 feet	Sapling									
Jack Pine	Low	< 5 feet	Sapling									
White Pine	Low	< 5 feet	Sapling									
Red Maple	Low	10 - 20 feet	Sapling									
62	500 - Water	Nonstocked	5.9		Immature	No	Ox bow in the Muskegon River valley.					
63	42200 - Natural White Pine	Sawtimber Well	5.5	81	81-110	N/A	Thinned in 2010 as part of Jeffs Jack # 63-074-06. White and red pine dominated stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	80	Log	16	81
								Red Pine	20	Log	12	
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Low	5 - 10 feet	Sapling	
Red Oak	Low	>20 feet	Pole									
White Pine	Medium	>20 feet	Pole									



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64	6229 - Mixed lowland shrub	Nonstocked	1.2			No																																																			
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65	4130 - Aspen	Sapling Well	13.5	22	Immature	N/A	Natural regen. Looks good. Harvested in fall 2000 (Coyote Aspen 63-039-97-01).																																																		
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67	6127 - Lowland Pine	Poletimber Well	2.2	78	51-80	N/A	Lowland conifer stand. Pervious inventory indicated this stand was thinned around 2010, removing jack pine, aspen and maple.																																																		
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68	42220 - Natural Jack Pine	Poletimber Well	11.5	51	51-80	N/A	Jack pine stand.																																																		
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69	6126 - Lowland Jack Pine	Sapling Well	11.0	24	Immature	N/A	2016-Natural regenerating stand.																																																		
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70	42200 - Natural White Pine	Sawtimber Poor	2.3	72	1-50	N/A	Pine filling in what was once a grassy opening. Canopy cover is on the low end of the 25%-50%.																																						
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71	6229 - Mixed lowland shrub	Nonstocked	1.4		Unspecified	No	This is a lowland shrub type.																																						
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72	42110 - Planted Red Pine	Sawtimber Well	6.5	82	81-110	N/A	Planted red pine stand. Stand is situated slightly above water table. Low BA. Leave for diversity this entry.																																						
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73	6120 - Lowland Cedar	Sawtimber Well	46.5	98	141-170	N/A	Cedar dominated stand. Small pockets of stand dominated by balsam, aspen, or red maple. One pocket dominated by a combination of balsam, aspen and red maple.																																						
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74	42250 - Pine, Oak	Sawtimber Poor	7.1	69	1-50	N/A	Low stocked stand.																																						
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75	3302 - Low Density Conifer Trees	Nonstocked	8.0		Unspecified	4132 - Aspen, Jack Pine	jack pine regeneration site. Harvested in 2010. Seedling present.																																						
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76	6229 - Mixed lowland shrub	Nonstocked	5.6			No																																							
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77	42220 - Natural Jack Pine	Sapling Well	36.9	7	Immature	N/A	Stand was final harvested in 2018. Retention left in east edge as well as some scattered green marked trees. Large wind event blew down some of green marked trees at time of sale.																																														
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78	6126 - Lowland Jack Pine	Poletimber Poor	2.8	51	1-50	N/A	Low density jack pine lowland bog type. Canopy closure is in the low end of the 25%-50% range. Southern portion of stand is dominated by white pine on a minor elevation change.																																														
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79	4130 - Aspen	Sapling Well	67.2	22	Immature	N/A	natural aspen regeneration. Harvested in fall 2000 (Coyote Aspen 63-039-97-01).																																														
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80	4130 - Aspen	Sapling Poor	131.5	6	Immature	N/A	Oak Ridge that was seed tree cut in 2018. Left with 20 to 30 BA of oak, white oak was left preferentially. Large wind event in 2018 ,caused some lost of green marked trees, not too much though. Heavy deer area. Aspen regen coming ok.																																														
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81	6112 - Lowland Aspen	Poletimber Well	53.0	45	111-140	N/A	Stand is new area left uncut in adjacent sale in 2022. #63-030-21 Raymond's Ridge Jack. These are pockets of immature timber and very wet ground.																																														
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82	4130 - Aspen	Sapling Well	24.6	22	Immature	N/A	Harvested in fall 2000 (Coyote Aspen 63-039-97-01).																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
<b>83</b>	4125 - Black, N. Pin Oak	Poletimber Well	7.6	67	51-80	N/A	Oak dominated stand with some red maple and aspen. Oak appears to be red and red/black hybrid. Poor form. Leave for cover and retention.																																								
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<b>84</b>	4130 - Aspen	Sapling Poor	29.0	22	Immature	N/A	Harvested in fall 2000 (Coyote Aspen 63-039-97-01).																																								
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<b>85</b>	4131 - Aspen, Oak	Sapling Well	44.1	7	Immature	N/A	Cut as part of MISS Rosco Mix # 63-042-06. Regenerating stand. Red maple, aspen and oak regeneration present.																																								
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<b>86</b>	4124 - Red with White Oak	Sawtimber Well	33.9	100	111-140	N/A	Mixed oak stand with a portion dominated by white pine. Also, white pine scattered throughout.																																								
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<b>88</b>	4131 - Aspen, Oak	Poletimber Medium	14.7	61	81-110	N/A	Aspen and oak stand. Poor quality in northern portion of stand. Harvest with retention of some oak and white Pine.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
<b>89</b>	4124 - Red with White Oak	Sawtimber Well	3.5	100	111-140	N/A	Mixed oak stand with a portion dominated by white pine. Also, white pine scattered throughout. Same sand as Stand 86. Leave as Long term retention/Diversity.																																		
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<b>90</b>	629 - Mixed non-forested wetland	Nonstocked	11.4	0	Unspecified	No																																			
<b>91</b>	6120 - Lowland Cedar	Sawtimber Well	1.3	98	141-170	N/A	Cedar dominated stand. Small pockets of stand dominated by balsam, aspen, or red maple. One pocket dominated by a combination of balsam, aspen and red maple.																																		
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<b>92</b>	4130 - Aspen	Sapling Medium	7.7	7	Immature	N/A	New stand added. Was previously part of stand 28 to north. Treated at same time as part of Jeff Road Mix #63-016-16, Less residual in this southern half, warranting a new stand.																																		
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<b>93</b>	330 - Low-Density Trees	Nonstocked	4.4	0	Unspecified	No	New stand. Previously part of stand 78. This is the lowest of the ground and wettest. Some trees, but mostly wetland.																																		
<b>94</b>	42220 - Natural Jack Pine	Sapling Well	22.9	24	Immature	N/A	Harvested in 1998 (63-067-97-01 Coyote Jack). Strips are dominated by natural jack pine, with variable stocking. Pockets of sparse regeneration, with high stocking present. Eastern harvest are included a low wet pocket, which has low stocking at this time.																																		
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<b>95</b>	4126 - White, Black, N. Pin Oak	Sawtimber Poor	33.7	96	1-50	N/A	New stand split form adjacent stand 80. This portion of stand has more residual oak left warranting a new stand. Stand was seed tree cut in 2018. Left with 30-50 BA of oak, white oak was left preferentially. Large wind event in 2018 caused some loss of green marked trees. Heavy deer area. Aspen regen. is coming ok.																																		
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<b>96</b>	330 - Low-Density Trees	Nonstocked	8.9	0	Unspecified	No	New Stand broken off of old stand 68. Area is wet and borderline non-productive, but with sparse trees on higher "bumps".																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>99</b>	6113 - Lowland Maple	Sawtimber Medium	3.2	82	81-110	N/A	Creek bottom dominated by red maple. White pine found on edges.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	60	Log/Pole	11	82	Red Maple	Low	5 - 10 feet	Sapling
White Pine	20	Log/Pole	12		White Pine	Low	5 - 10 feet	Sapling
Bur Oak	10	Pole	8					
Black Ash	10	Pole	7					

<b>101</b>	4133 - Aspen, Mixed Pine	Poletimber Medium	8.4	22	Immature	N/A	This stand was thinned in 2000. Currently an aspen/white pine stand with variable regeneration present. Previous: Seed tree harvested in 2000
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	30	Pole	7	
Red Oak	5	Log/XLog	17	
Balsam Fir	5	Sapling	3	
Quaking Aspen	60	Sapling	4	22