



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61007

Entry Year 2026

Acreage: 2,716

County Benzie

Management Area: Grand Traverse Moraine

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**Stand Examiner:** Pat Ruppen

### Legal Description:

T26N R14W Sec. 6  
T26N R15W Sec. 1, 12  
T27N R14W Sec. 21, 28-33

### Identified Planning Goals:

This compartment falls within the Benzie Moraines Management Area (MA). The plan for this MA lists objectives for forest cover type management, featured wildlife species, rare species & special resource areas, etc. In brief, cover type management calls for uneven-aged management of northern hardwoods with some limited clearcutting on lower quality sites; balancing of stand age classes for even-aged types such as aspen and red pine; and opportunistic harvesting of minor cover types, including lowland forest.

In 2013, several harvests were set up in this compartment out of the normal year-of-entry primarily to remove pest-threatened ash and beech. These harvests, along with those completed in the previous inventory cycle, cover almost all the northern hardwood stands in the compartment, leaving very little acreage of this type that could be prescribed in the present cycle. No treatments are recommended.

No red pine plantations meet the guidance for thinning harvest during this inventory cycle. No treatments are recommended.

The MA plan guidance calls for some harvesting in lowlands. However, the majority of such stands within the compartment are being proposed for Special Conservation Area (SCA) status for reasons given in the "Proposed SCA Details" part of this package (Report 8). A second SCA is being considered for a remote area of northern hardwoods in combination with a lowland conifer swamp southeast of Hooker Road. Management in both proposed SCAs should be limited to fish & wildlife habitat improvement, exotic species control, or minimal improvement for recreational access.

### Soil and topography:

Flat, poorly drained lowlands occupy the southwest part of the compartment along the Platte River, the North Branch of the Platte, and their tributaries. State lands abut the eastern shores of Platte and Little Platte Lakes. Lowlands are primarily Houghton-Adrian and Dair-Adrian mucks, with some histosols. Upland moraine areas in the northeast part of the compartment are gently to steeply rolling with Benzonia, Fogg-Benzonia, and Kaleva sand types. The North Branch of the Platte River drains this moraine area through a northeast-southwest oriented valley.

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

The compartment has a mixture of state and private land parcels. State land predominates to the east, with mostly private lands north, south, and west. Sleeping Bear Dunes National Lakeshore lies just to the northwest. Surrounding private lands are generally rural, with low density housing. Lake frontage on Platte and Little Platte Lakes is heavily developed. The village of Honor is just south of the compartment.

### Unique Natural Features:

Much of the lowland area in the southwest part of the compartment coincides with two MNFI element occurrences, namely a rich conifer swamp and a northern fen. This area harbors an unusually high concentration of tamarack for this part of the state. Large areas of floating bog abut the lakes and water courses. The Platte River and its tributaries form a complex, braided drainage network through these lowlands.

### Archeological, Historical, and Cultural Features:

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

### Special Management Designations or Considerations:

Two blocks of land within the compartment are being proposed as Special Conservation Areas, one covering the lowlands in the southwest part of the compartment, the other covering a remote northern hardwood/lowland conifer area in the middle of the compartment.

### **Watershed and Fisheries Considerations:**

This compartment contains portions of the Platte River, Deadstream Swamp, and the North Branch of the Platte River. The Platte River watershed is a high quality, naturally reproducing brown trout, steelhead, and coho salmon stream, with generally very high water quality. Suitable buffers (as outlined in Water Quality Management Practices on Forest Land) appear to be appropriate for the proposed treatments.

### **Wildlife Habitat Considerations:**

Compartment 7 contains land made up of two diverse glacial land types, a flat lake plain and steep moraine ridges. Habitat types found on the lake plain consist mainly of various wetlands, including stands of cedar, tamarack, lowland hardwoods, lowland brush, bogs, and a small portion of Little Platte Lake. State ownership on this lake plain is mostly contiguous. Whereas state ownership on the moraine ridges is moderately fragmented. Cover types on the moraine ridges are predominately northern hardwoods with several red pine plantations and a couple of small openings.

Little, if any, management practices have been done on state forest land situated on the lake plain, for several reasons, including limited access because of high water tables and stream crossings, lack of necessity for treatment, and the fragile nature of these wetland communities. Most of this area is left to the natural cycles and disturbances that occur here. However, much of this area is considered a Rich Conifer Swamp and prevention and removal of invasive species as well as the continued protection of natural processes and disturbance regimes should be maintained. These include fluctuations in the hydrologic cycle and water table, wind throws, and succession. Some wildlife species associated with these ecosystems include: four-toed salamander, blacked-backed woodpecker, American woodcock, bobcat, and black bear.

Management practices on the moraine ridges have been and should continue to be designed to perpetuate northern hardwood forests. Some wildlife species require large acreages of contiguous northern hardwood forest to complete their life cycle. Several wildlife habitat components to look for and promote in northern hardwoods are vertical structure, standing snags, dead and down logs, diversity of tree species, and a conifer component of hemlock, spruce, or pine. Some wildlife species found in northern hardwood types include red-eyed vireo, broad-winged hawk, gray fox, and eastern gray squirrel.

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

There is no known metallic mineral potential in this part of the state. Active sand/gravel pits exist one mile of the southern end of the compartment to the east and west. Much of the compartment is low and wet with limited potential for development of sand and gravel. The best potential for aggregates in the compartment appears to be in sections 28, 32, & 33. The compartment is on the far edge of the Antrim Shale gas play. The Antrim Shale beneath the compartment is believed to be thin to absent, and potential for future Antrim gas development is considered very low. Several Antrim wells were drilled just southeast of the compartment, but pipelines were never extended to the area, and the wells have since been orphaned. Potential for oil & gas from other known producing formations beneath the compartment is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

### **Vehicle Access:**

Access is sufficient in the upland areas of this compartment off county roads. A constructed loop road through the large hardwood tract west of Ely Road requires periodic maintenance. There are large downfalls across the road at this time and also an area of erosion that should be addressed. An isolated 40-acre parcel in section 29 abuts Gudemoos Road, but timber harvesting access would likely need to be through private land. There is one gated trail in the lowland portion of the compartment accessing Platte Lake; otherwise vehicle access is limited to Platte and Indian Hill roads on the periphery, and Deadstream Road through the middle of the swamp.

### **Survey Needs:**

Survey corners may be needed in the north part of the state ownership in section 1 to define a private inholding, and abutting private land in section 31 for potential timber harvest. Otherwise, existing corners are adequate.

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

There are no designated recreational facilities within this compartment. Boaters and anglers frequently access the North Branch of the Platte River where it crosses Deadstream Road. Numerous vehicles are often parked along the road shoulders and on a short spur leading to an unofficial access on the river. The remainder of the lowland forest area has difficult access, but may be used by some hunters and trappers, especially closer to county roads. Upland forests are used for mushroom picking, hunting, and other dispersed recreation. (T.M.N. 4/14/14)

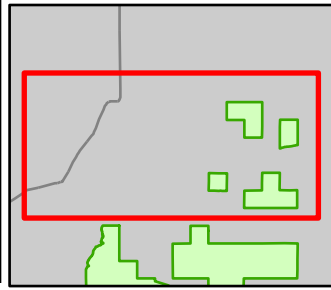
### **Fire Protection:**

This area is protected by the Traverse City Field office, with staffing at the Platte River DNR office on high fire danger days, as well as the Benzonia Fire Department.

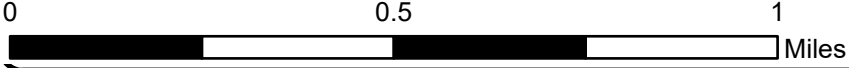
### **Additional Compartment Information:**

An old cabin and outhouse in disrepair are located near the southeast corner of Platte Lake on land acquired by the state

Cover Type & Treatments Map



Compartment: 61007  
 27N14W Sec. 21, 28-30  
 County: Benzie  
 Unit: Traverse City  
 Mgmt Area: Grand Traverse  
 Moraine  
 YOE: 2026  
 Acres: 2715.9 GIS Calculated  
 Examiner: Pat Ruppen  
 Map Revised: 07/08/2024  
 Map Phase: Pre-Review

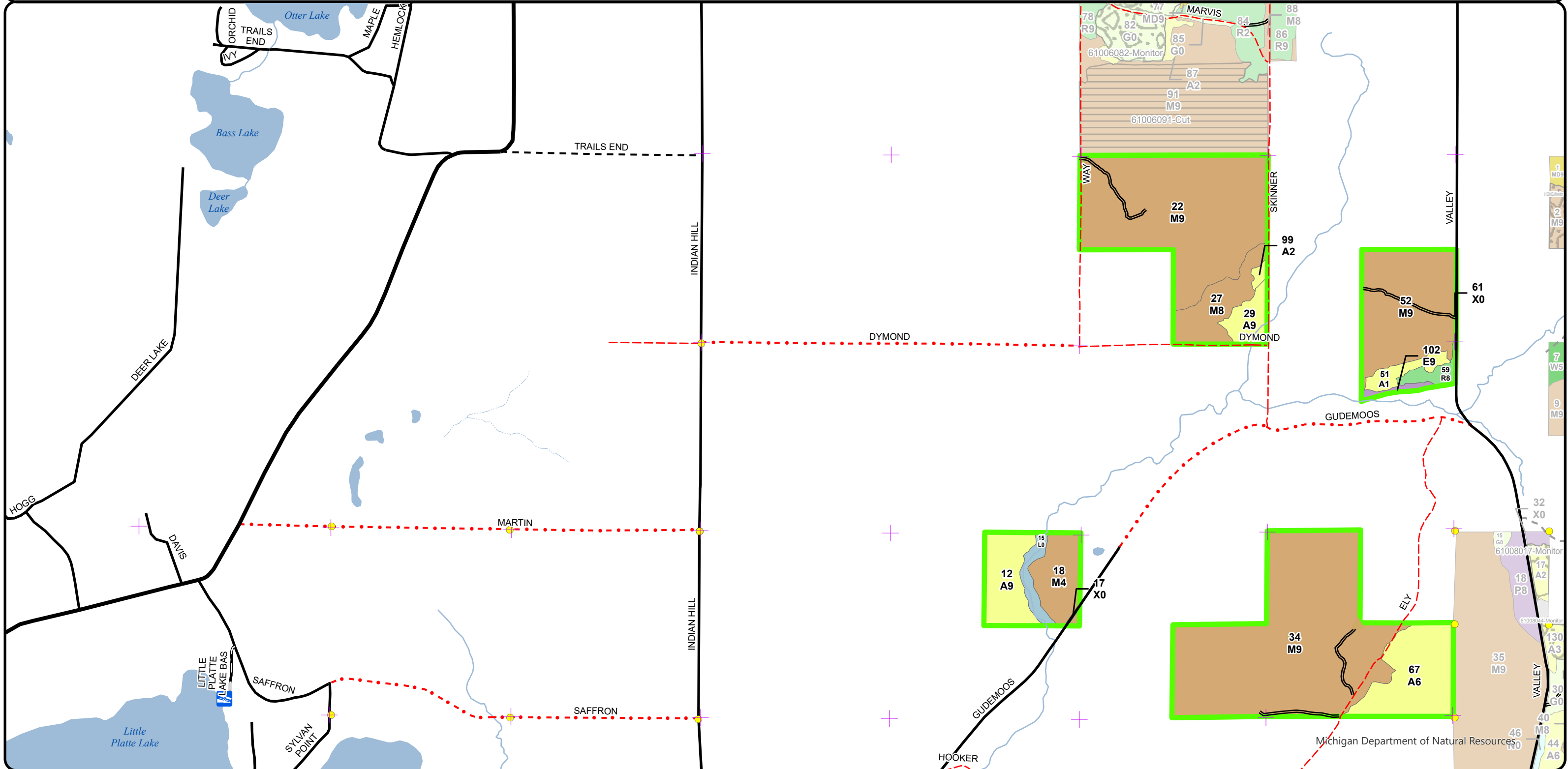


- Berms
- Boating Access Site
- Survey Grade Corners
- Remonumented Section Corners
- DNR - Primary Forest Road
- DNR - Secondary Forest Road

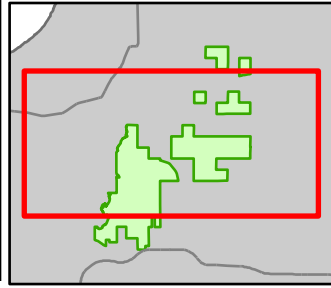
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road

- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Counties

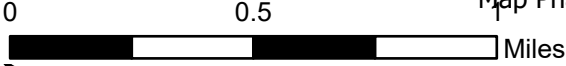
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub



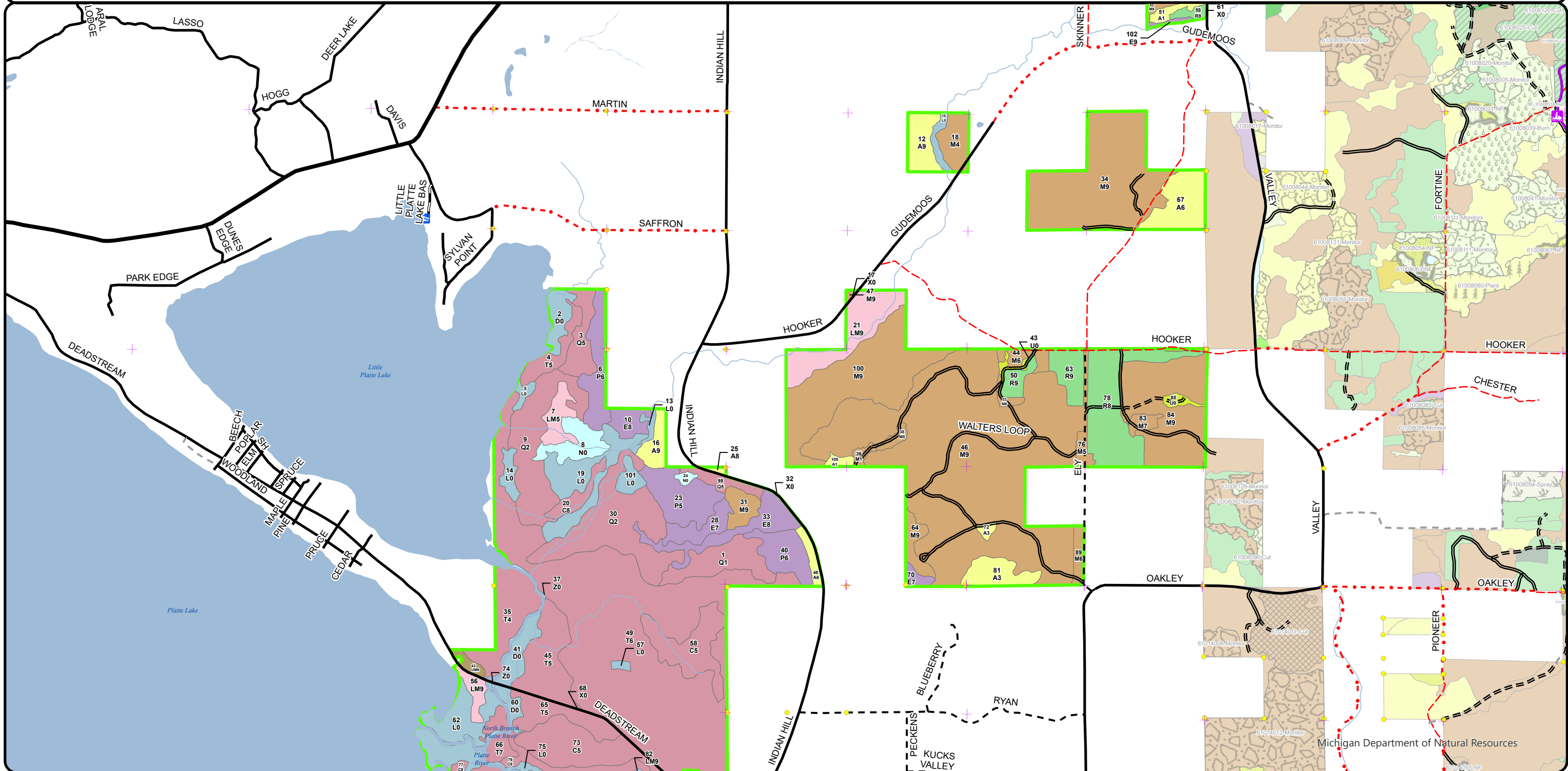
Cover Type & Treatments Map



Compartment: 61007  
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 T26N, R15W, Sec: 1, 12  
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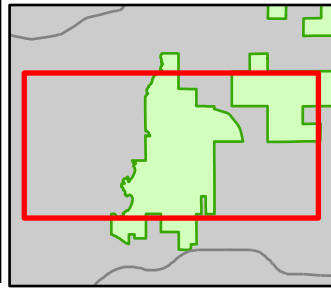


- Berms
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- Survey Grade Corners
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- Snowmobile Trails
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
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- 500 - Water
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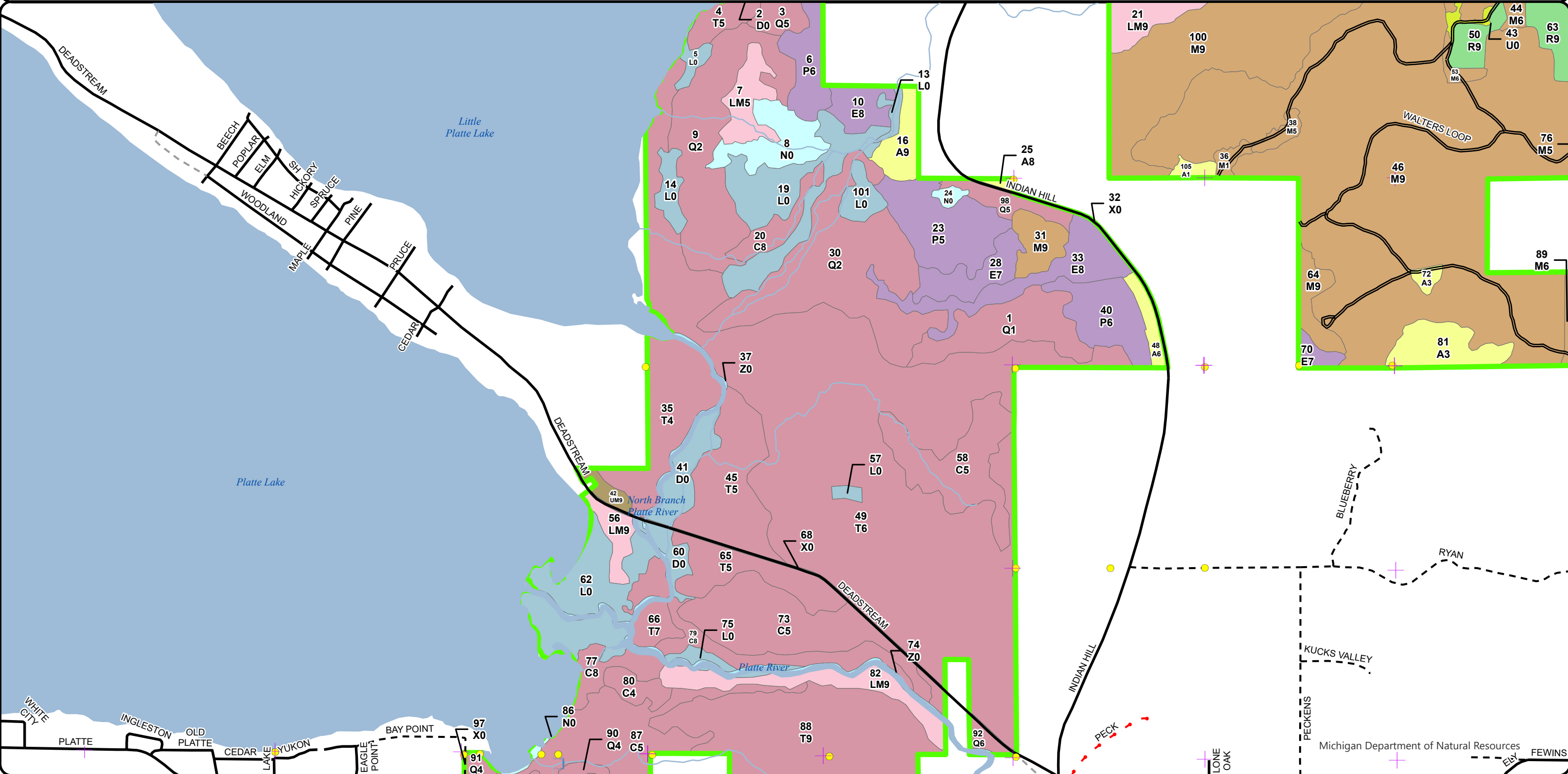
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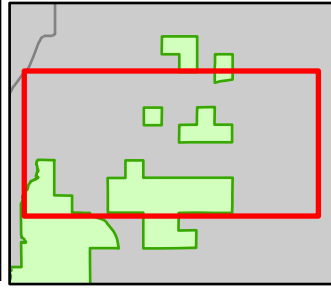
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- Culvert
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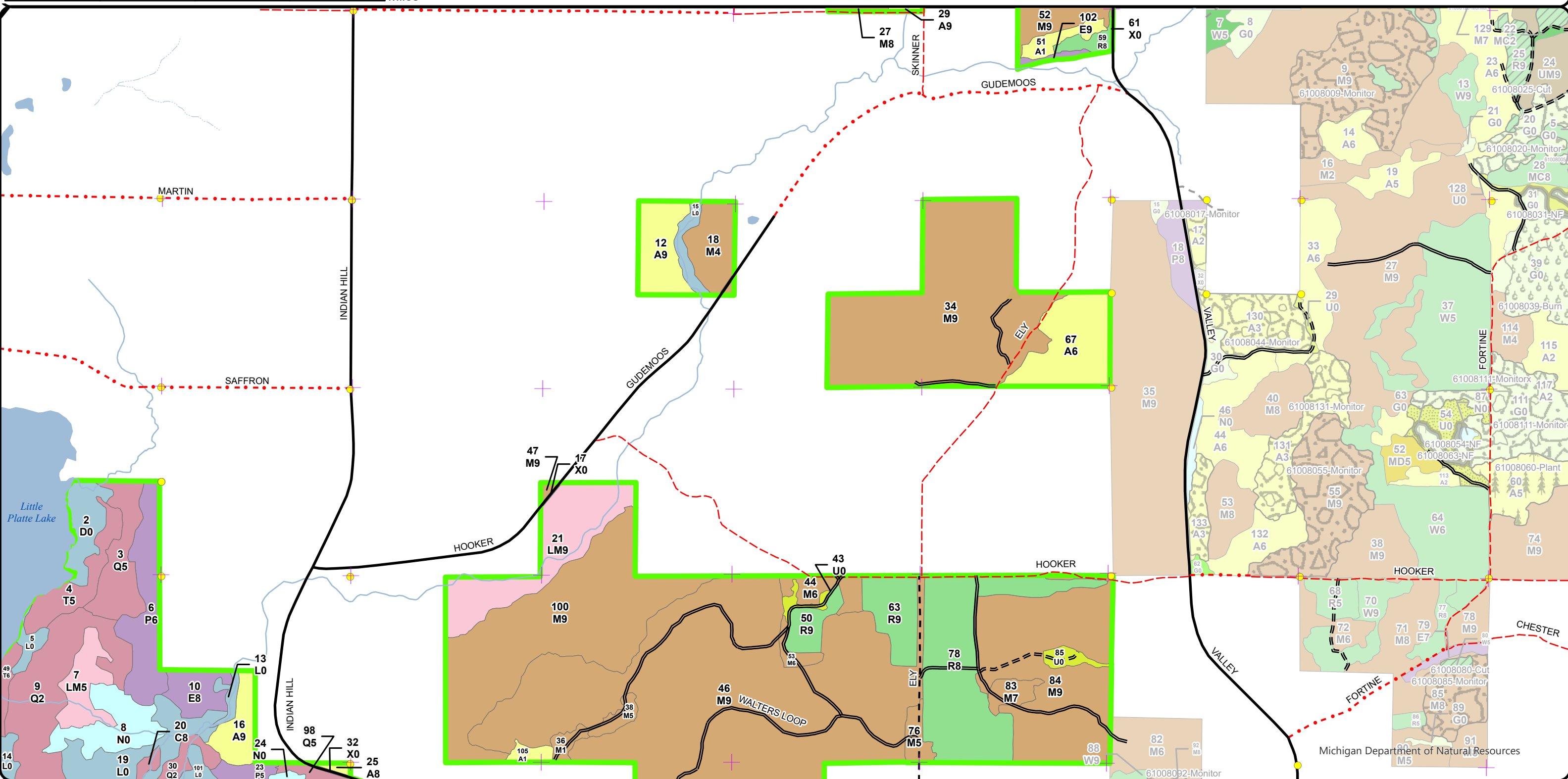


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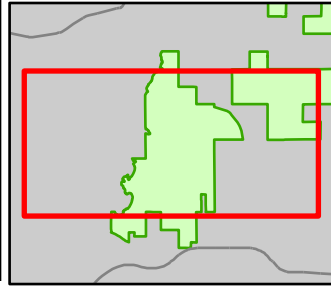
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- |  |  |                                  |                                   |
|--|--|----------------------------------|-----------------------------------|
| ▲ Berms                                  | - - - Federal / State - Dirt / Gravel Road | ■ Lakes and Rivers               | ■ 612 - Lowland Coniferous Forest |
| ● Survey Grade Corners                   | - · · · County - Gravel Road               | ■ Compartment Boundary           | ■ 613 - Lowland Mixed Forest      |
| ⊕ Remonumented Section Corners           | - - - County - Dirt Road (Seasonal)        | □ Counties                       | ■ 122 - Roads/Parking Lot         |
| ══ DNR - Secondary Forest Road           | - - - Private - Dirt / Gravel Road         | ■ 411 - Northern Hardwood        | ■ 330 - Low Density Trees         |
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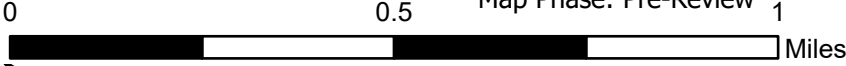




Stand Boundary Map

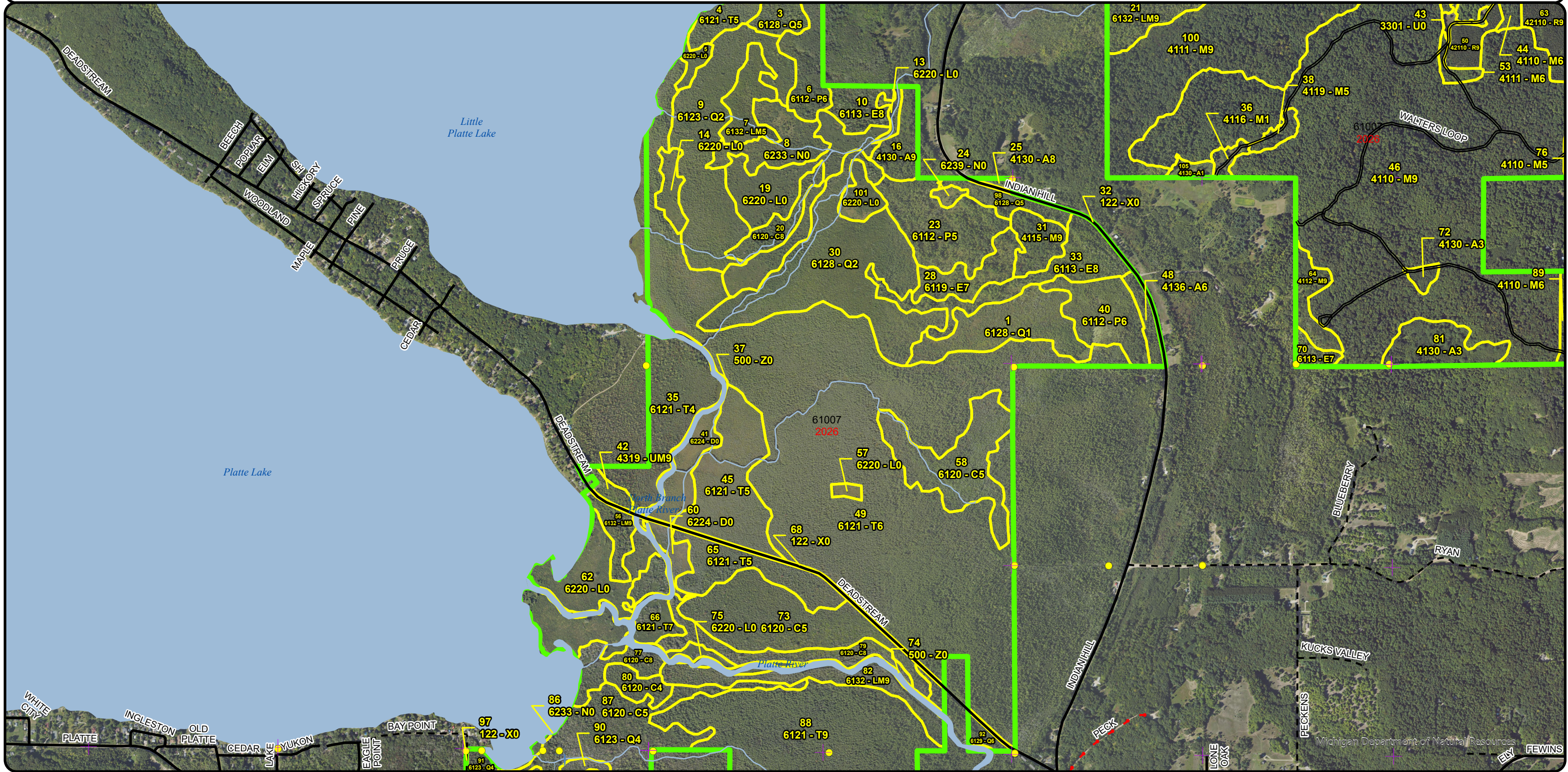


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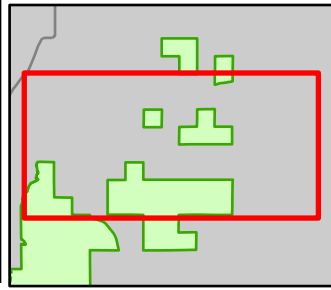
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Stand Boundary Map

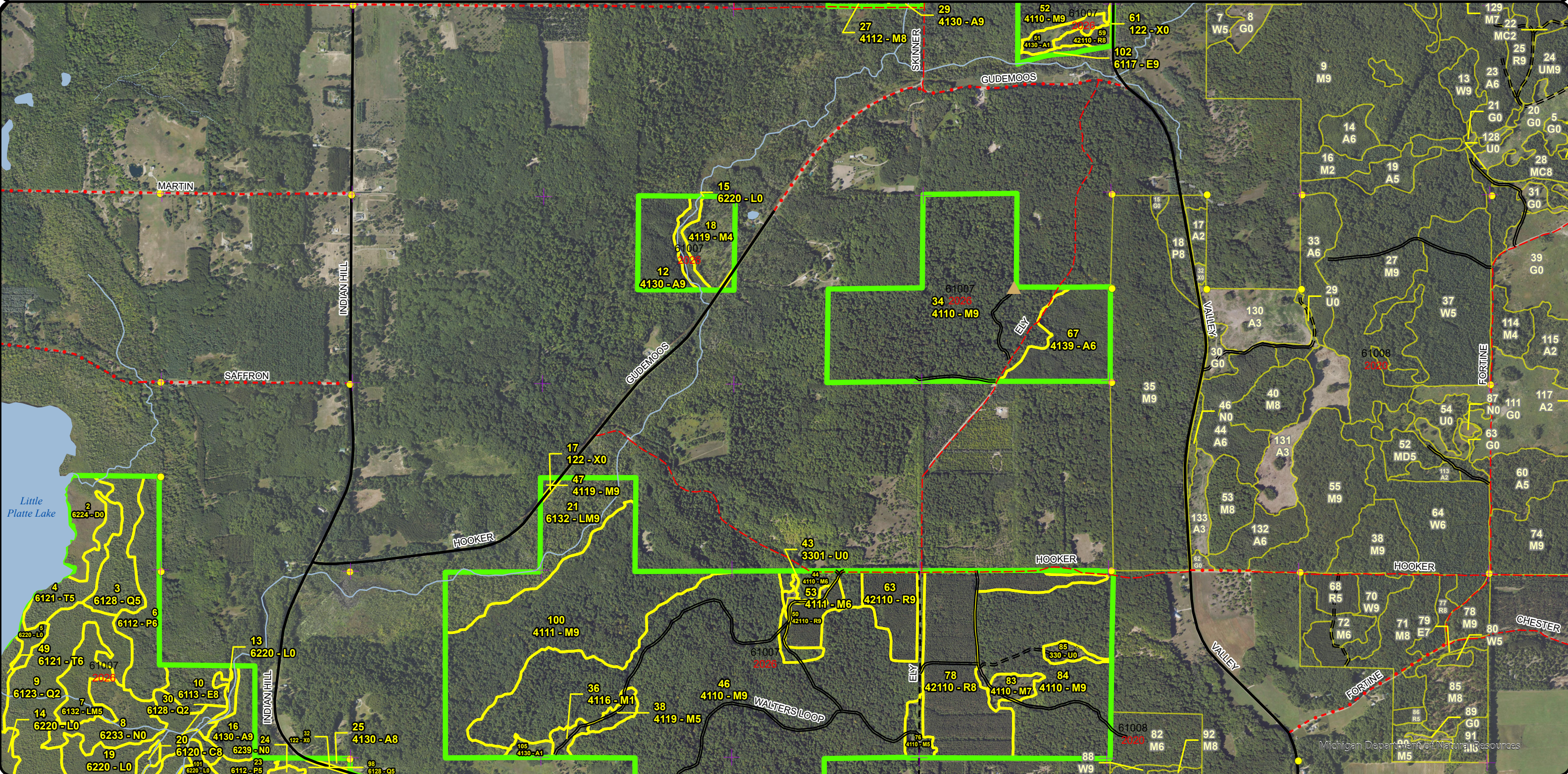


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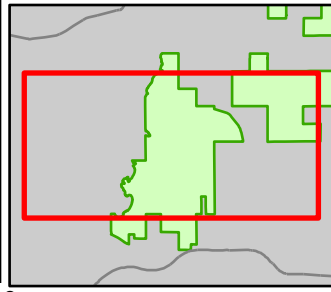
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**Special Conservation Areas & Site Conditions Map**



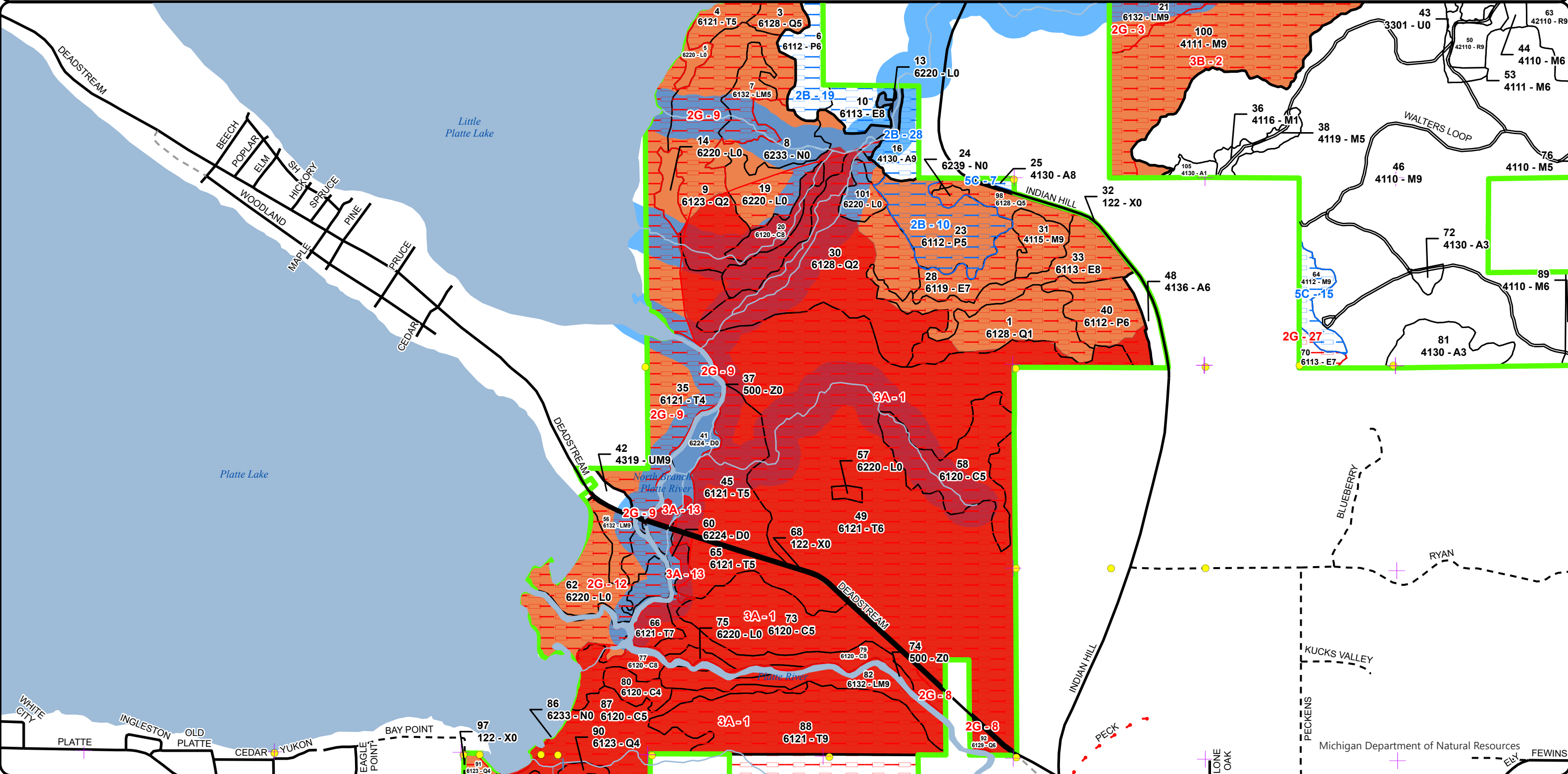
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- Lakes and Rivers
- Compartment Boundary
- Counties
- SCA
- Available w/ Constraints
- Unavailable

- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area

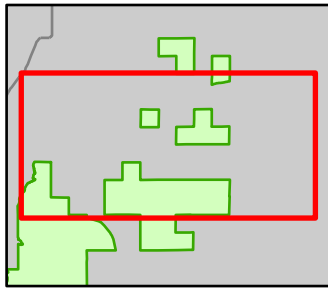
5C: Delay treatment for age/size class diversity or exceptional site quality





**Special Conservation Areas & Site Conditions Map**

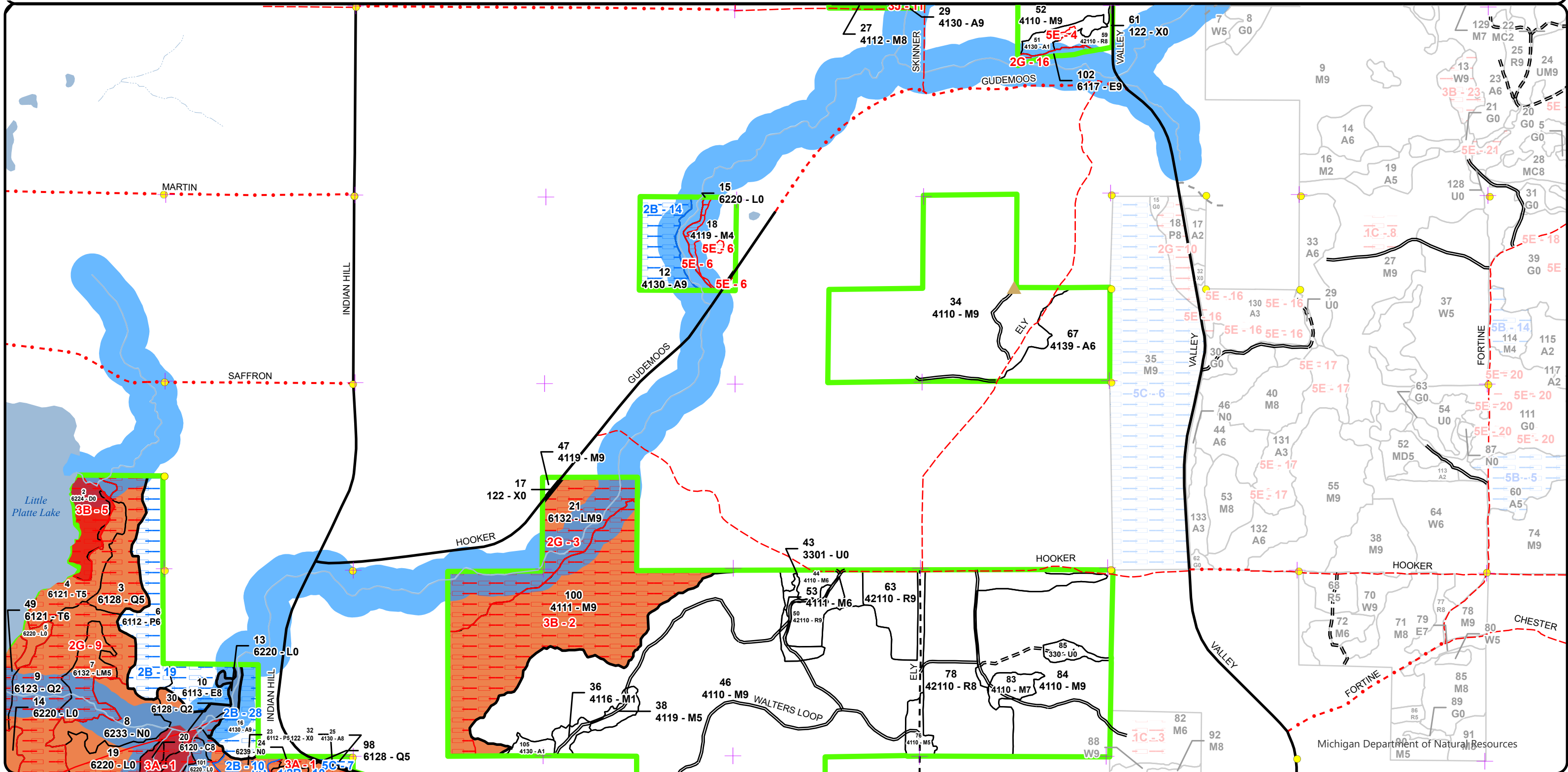
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- Counties
- SCA
- Available w/ Constraints
- Unavailable

- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area



in 1994.

The E1/2 W1/2 SESE fo T26N R14W Section 6 (10 acres) is desirable to acquire should it come up for sale or exchange.

**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**

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	9	1	52	0	0	25	20	1	0	0	0	0	0	0	0	0	0	107
Cedar	0	0	0	0	0	0	0	0	0	0	0	129	0	0	0	58	0	7	193
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	8	0	0	0	50	34	5	0	0	0	0	0	0	0	0	0	0	97
Lowland Conifers	0	0	0	0	0	110	28	8	0	0	0	0	19	0	0	0	0	117	281
Lowland Deciduous	0	0	0	0	0	0	0	4	0	5	2	15	0	0	0	0	0	39	64
Lowland Mixed Forest	0	0	0	0	0	14	0	0	0	0	63	0	0	8	0	0	0	0	85
Lowland Shrub	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130
Marsh	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Northern Hardwood	0	0	0	0	0	0	40	4	0	0	196	53	640	0	0	0	0	3	936
Red Pine	0	0	0	0	0	0	25	65	0	0	0	0	0	0	0	0	0	0	90
Tamarack	0	0	0	0	0	0	0	0	0	0	382	168	0	41	0	0	0	38	629
Treed Bog	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
<b>Total</b>	<b>228</b>	<b>17</b>	<b>1</b>	<b>52</b>	<b>0</b>	<b>174</b>	<b>152</b>	<b>106</b>	<b>1</b>	<b>5</b>	<b>643</b>	<b>365</b>	<b>659</b>	<b>49</b>	<b>0</b>	<b>58</b>	<b>0</b>	<b>208</b>	<b>2713</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2026

Acres of Harvest

Compartment 7  
Total Compartment Acres: 2,716

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

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Mgt. Unit

Report 3 -- Treatments

Compartment:

Year of Entry:



Treatment  
Name

Acres

Stand  
CoverType

Size  
Density

Stand  
Age

BA  
Range

Treatment  
Type

Treatment  
Method

Cover Type  
Objective

Age  
Structure

Habitat  
Cut

Total Treatment  
Acreage Proposed: 0



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Pat Ruppen : Examiner

Compartment: 7  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions							
		With Condition				2B	5C	2G	3A	3B	3J	5E	
108	68	<b>31</b>		9	Aspen	<b>30</b>	<b>1</b>					8	0
194	0	<b>0</b>		194	Cedar			0	194				
6	6	<b>0</b>		0	Herbaceous Openland								
6	6	<b>0</b>		0	Low-Density Trees								
96	8	<b>60</b>		29	Lowland Aspen/Balsam Poplar	<b>60</b>			29				
283	2	<b>0</b>		280	Lowland Conifers	<b>0</b>		67	213				
64	4	<b>11</b>		49	Lowland Deciduous	<b>11</b>		7	43				
63	0	<b>0</b>		63	Lowland Mixed Forest			63		0			
129	45	<b>0</b>		84	Lowland Shrub	<b>0</b>		43	41				
23	21	<b>0</b>		2	Marsh	<b>0</b>			2				
937	811	<b>10</b>		116	Northern Hardwood	<b>0</b>	<b>10</b>	0	12	101	0	3	
90	90	<b>0</b>		0	Red Pine								0
628	0	<b>0</b>		628	Tamarack			88	540	1			
33	14	<b>0</b>		20	Treed Bog			4	4	12			
4	4	<b>0</b>		0	Upland Mixed Forest								
12	11	<b>0</b>		0	Urban		<b>0</b>	0	0				
17	11	<b>0</b>		5	Water			5					
2,693	1,101	<b>113</b>		1,480	Total Forested Acres	<b>101</b>	<b>12</b>	277	1,076	114	8	4	
	41%	<b>4%</b>		55%	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>3A: Conservation Values incompatible with harvest at this time</b>	1,095	2G: Too wet (sensitive soils, does not include access issues)	5D: Unproductive Forest Land	Unspecified	Unspecified
<b>Comments:</b>							
MNFI has this as an element occurrence; rich conifer swamp community.							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

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2	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	101	3A: Conservation Values incompatible with harvest at this time	2B: Unknown if access through adjacent landowner(s) is possible	2F: Too steep	Unspecified
<b>Comments:</b> Parts of stand too steep or across wet draws. This area could be nominated as a SCA.							
3	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> cedar swamp							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	13	2G: Too wet (sensitive soils, does not include access issues)	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
<b>Comments:</b> MNF1 listed element occurrence: northern fen community.							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Less than 1 acre of state timber							

## Report 4 – Site Conditions

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8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	157	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area includes extensive lowland conifer blowdown stands.							
10	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream crosses SE corner of stand, plus several ditches/natural drainages within stand, making operability extremely difficult if rutting/water quality issues are to be avoided.							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	68	3J: Water quality / BMPs (stream, river, or lake)	5D: Unproductive Forest Land	Unspecified	Unspecified
<b>Comments:</b> Area includes extensive lowland conifer blowdown stands, streams/ivers, lowland brushlands, some floating bog.							

## Report 4 – Site Conditions

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13	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> MNFI listed element occurrence: northern fen community.							
14	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Even if mgmt. access is attainable across private land to the west, there are some wet draws in the stand that should probably be left alone, as well as a possible riparian buffer. Access from north or south is not feasible because of terrain.							
15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	3J: Water quality / BMPs (stream, river, or lake)	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified
<b>Comments:</b> Streamside - riparian.							
19	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

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27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	Available	2B: Unknown if access through adjacent landowner(s) is possible	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							





**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
<b>Deadstream Swamp</b> <b>Comments</b>	Habitat Area	Habitat Corridor	<b>SCA</b>	1341
<b>Walters Loop</b> <b>Comments</b>	Habitat Area	Habitat Corridor	<b>SCA</b>	144
Proposed for a New SCA due to difficult management access, high quality northern hardwoods of advanced age, multiple species of concern, and potential future habitat values. Habitat-related management should remain a possibility in this area.				



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

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	31.2	45	1-50	N/A	2024: remote call 2004: sparse mixed regen in old blowdown, some remnant cedars
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Paper Birch					35	Sapling	4	45	Red Osier Dogwood				Low	5 - 10 feet	Tall Shrub
Balsam Fir					25	Sapling	3		Tag Alder				Medium	10 - 20 feet	Tall Shrub
Tamarack					10	Sapling	3								
Northern White Cedar					25	Pole	8								
Black Ash					5	Sapling	4								

2	6224 - Treed Bog	Nonstocked	13.8		Unspecified	No	Floating bog, stunted cedar. Some pitcher plant. Phragmites invading.
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Sub-Canopy Species				Density	Avg. Height	Size
Northern White Cedar				Low		Sapling
Tag Alder				Low		Tall Shrub
Tamarack				Trace		Sapling
Sweet Gale				Medium		Tall Shrub
Mixed Bog Heaths				Medium		Non-Wood
Phragmites (spp.)				Low		Non-Wood
Sphagnum Moss				High		Non-Wood
Cattail spp.				Low		Non-Wood
Sedges				Full		Non-Wood

3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	19.2	112	51-80	N/A	2024: remote call 2004: Blowdown swamp w/remnant WP/RM/et al., thick BF regen and BA, a few WC/BS/EH.BF sapling age may reflect blowdown date.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Black Ash					2	Pole	8		Tag Alder				Low	10 - 20 feet	Tall Shrub
Northern White Cedar					18	Pole/Log	9		Balsam Fir				High	Variable	Sapling
White Pine					30	Log	16	112	Black Ash				Low	>20 feet	Sapling
Paper Birch					5	Pole	8								
Black Spruce					10	Pole	8								
Red Maple					20	Log/Pole	12	77							
Balsam Fir					5	Pole	8								
Hemlock					10	Log	12								

4	6121 - Tamarack	Poletimber Medium	14.8	95	51-80	N/A	2024: remote call. 2004: mixed saplings include black ash, paper birch, red maple
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Tamarack					100	Pole/Log	9	95	Northern White Cedar				Low	>20 feet	Pole
									Tag Alder				Medium	10 - 20 feet	Tall Shrub
									Deciduous Saplings				Low	Variable	Sapling

5	6220 - Alder/willow	Nonstocked	4.1		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
6	6112 - Lowland Aspen	Poletimber Well	26.6	48	81-110	N/A	A few old remnant basswood, b. ash, hemlock along with cedar among A/BF regen from past cut.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Northern White Cedar		2	Log/Pole	10	115	Northern White Cedar	Low	>20 feet	Pole
Quaking Aspen		98	Pole	8	48	Hemlock	Low	Variable	Pole
						Balsam Fir	Medium	Variable	Sapling
7	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	13.9	47	1-50	N/A	2024: remote call		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		18	Pole	5		Northern White Cedar	Low	10 - 20 feet	Sapling
Northern White Cedar		30	Pole/Log	9		Tag Alder	High	>20 feet	Tall Shrub
Paper Birch		50	Pole	6	47	Balsam Fir	Medium	Variable	Sapling
Black Ash		2	Sapling	2					
8	6233 - Wet Meadow	Nonstocked	19.2		Unspecified	No	2024: remote call		
						<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
						Tamarack	Trace		Pole
						Sedges	High		Non-Wood
						Cattail spp.	High		Non-Wood
						Deciduous Saplings	Trace		Pole
						Balsam Fir	Trace		Sapling
						Tag Alder	Medium		Tall Shrub
9	6123 - Lowland Fir	Sapling Medium	59.2	52	Unspecified	N/A	2024: remote call. 2004: Formerly understory cedar now share canopy w/BF saplings after blowdown/regen event.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		10	Sapling/Pole	2		Tag Alder	High	>20 feet	Tall Shrub
Balsam Fir		63	Sapling/Pole	4	52	Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Black Spruce		13	Pole/Sapling	5	40	Willow spp.	Low	10 - 20 feet	Tall Shrub
Northern White Cedar		10	Pole	8	128				
Black Ash		2	Sapling	4					
White Pine		2	XLog	18					
10	6113 - Lowland Maple	Sawtimber Medium	10.8	92	51-80	N/A	2024: remote call 2012: Some CWD; overmature aspen, a few hemlock, paper birch, yellow birch, cherry & basswood. Deer wintering area.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		15	Log	12		Black Ash	Low	>20 feet	Sapling
Red Maple		85	Log/Pole	13	92	Balsam Fir	Medium	Variable	Sapling
						Red Maple	Low	Variable	Sapling
						Balsam Fir	Low	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
12	4130 - Aspen	Sawtimber Well	18.5	52	141-170	N/A	2024: Aspen is mature and would likely regenerate well through residual hardwoods if removed. Maple, beech, cherry and red oak poles growing through aspen. Would be challenging to harvest due to terrain and access is un-assured. 2014: Ridges and valleys, very hilly. Traces of hemlock, red oak, cherry, and yellow birch.																																																				
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Quaking Aspen	60	Log	13	69																																																							
Paper Birch	10	Log/Pole	11	69																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																								
Balsam Fir	Low	>20 feet	Pole																																																								
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17	122 - Road/Parking Lot	Nonstocked	0.7		Unspecified	No	Gudemoos Rd.																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>18</b>	4119 - Mixed Northern Hardwoods	Poletimber Poor	16.2	52	1-50	N/A	2024: Mixed retention scattered and in patches with patchy aspen regen. Good in places and poor in wetter areas. Rutting damage from last harvest. Browsing damage. Trespass issue with driveway and gate noted in last inventory. 2020: Cut in March 2019, aspen and fir were removed, mixed hardwood residuals; retention island and a retention strip along the river. Small patch also retained southeast of road.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	2	Pole	7	
Red Oak	2	Log	14	
White Pine	2	Log/Pole	12	
Red Maple	58	Pole/Sap/Log	7	52
Black Ash	2	Pole	8	
Quaking Aspen	5	Pole	8	52
Sugar Maple	20	Pole/Sap/Log	7	
Hemlock	2	Log/Pole	10	
Yellow Birch	2	Log/Pole	10	
Northern White Cedar	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	5 - 10 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	Medium	5 - 10 feet	Sapling

<b>19</b>	6220 - Alder/willow	Nonstocked	38.9		Unspecified	No	2024: remote call
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Sub-Canopy Species	Density	Avg. Height	Size
Sedges	Full		Non-Wood
Balsam Fir	Trace		Pole
Tag Alder	High		Tall Shrub
Balsam Poplar	Trace		Pole
Black Ash	Trace		Pole

<b>20</b>	6120 - Lowland Cedar	Sawtimber Medium	9.8	145	51-80	N/A	2024: remote call
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	75	Log	12	145
Balsam Fir	15	Pole	8	
Black Spruce	10	Pole/Log	9	

<b>21</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	40.9	98	111-140	N/A	2024: Nice mix of lowland species. Drainage through and river on south edge. 2014: Lots of poison ivy. Some big quaking aspen. Occasional black cherry.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Log/Pole	11	
Quaking Aspen	13	Log	15	91
Northern White Cedar	39	Log/Pole	12	98
Hemlock	15	Log	12	
Yellow Birch	3	Pole	9	
Black Ash	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash	Medium	10 - 20 feet	Sapling
Yellow Birch	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>22</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	92.8	93	81-110	N/A	2024: AVG BA=103. Stand has been thinned in past. Generally lower quality sugar maple with beech, BT Aspen and cherry. Slightly over stocked but not many crop trees. Could thin but may be best to just let stand grow for now. Stocking and diameters are variable. Area in SW corner of stand with RM and Beech poles. Little desirable regeneration. Large beech scattered through stand. Beech scale noted but not mortality. If stand is thinned more of these could be removed or girdled. Beech poles growing in stand look good. 2014: Trace of YB. Some cavity trees. Some big aspen, beech. Scattered regen pockets. Trace of BC and WA.TS# 020-06. Orange marked thinning. TCR 2010.
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Canopy Species	% Cover	Size Class	DBH	Age
Ironwood	2	Pole	6	
Black Cherry	2	XLog/Log	18	
Beech	15	Log/Pole/XLog	13	
Sugar Maple	70	Log/Pole	12	93
Bigtooth Aspen	5	Log	14	
Red Maple	6	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	Variable	Sapling
Sugar Maple	Low	Variable	Sapling
Ironwood	Low	Variable	Sapling

<b>23</b>	6112 - Lowland Aspen	Poletimber Medium	33.7	55	51-80	N/A	2024: remote call 2014: Standing dead ash, elm. Fir understory is denser in the west end of the stand. There is a patch of more concentrated hardwoods/less aspen in the northeast part of the stand. Aspen age varies from mid-30s to mid-40s because of extended cutting period in the stand from 1969-1977.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Log	12	
Basswood	5	Log/Pole	11	
Paper Birch	2	Pole/Log	8	
Northern White Cedar	2	Pole/Log	9	
American Elm	2	Log/Pole	10	
Quaking Aspen	86	Pole	8	55

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	>20 feet	Pole
Northern White Cedar	Low	>20 feet	Pole
Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

<b>24</b>	6239 - Mixed Emergent Wetland	Nonstocked	2.1		Unspecified	No	2024: remote call. 2012: Old habitat cut. Numerous snags.
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Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low		Sapling
Willow spp.	Trace		
Cattail spp.	High		Non-Wood
Mixed Sedges/Grasses	High		Non-Wood
Paper Birch	Low		Sapling
Red Osier Dogwood	Trace		Tall Shrub
Tag Alder	Medium		Tall Shrub
American Elm	Trace		Pole
Black Ash	Low		Sapling

<b>25</b>	4130 - Aspen	Sawtimber Medium	1.2	70	81-110	N/A	aspen age estimated from difficult ring count stand includes cleared right of way for county road
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	95	Log	13	70
Basswood	2	Log	10	
Sugar Maple	3	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
27	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	17.4	95	51-80	N/A	2024: Low quality mixed diameter red maple logs with sugar maple. Thickets of cherry regen with ironwood. Trace of YB, BC.																																																											
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28	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	15.0	104	1-50	N/A	This is a dying stand of mature black ash. Some of the ash are still alive, or have dead tops & stem sprouting. Stand may be essentially non-forested in a year or two. Trace amounts of paper birch, cedar, and q. aspen present.																																																											
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29	4130 - Aspen	Sawtimber Well	8.2	64	111-140	N/A	Traces of ash, basswood, yellow birch, elm, black cherry.																																																											
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30	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	79.3	45	1-50	N/A	2024: remote call 2004: sparse mixed regen in old blowdown, some remnant cedars																																																											
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31	4115 - Y.Birch, Hemlock NH	Sawtimber Well	11.5	119	171-200	N/A	2024: remote call. 2012: "Upland", but hummocky, high-water table. Very little seedlings, saplings. Hemlock age estimated from ring count. Deer yard.																																																											
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32	122 - Road/Parking Lot	Nonstocked	2.2		Unspecified	No	Indian Hill Rd.																																																											





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>33</b>	6113 - Lowland Maple	Sawtimber Medium	28.0	88	51-80	N/A	Some winter deer use. Lots of blowdown. Scattered old white pine. Good mixed regeneration in open gaps; mixed conifer saplings includes hemlock, cedar, white pine, black spruce. 2004 comments: Much of type is on slight ridges in swamp. Variable type, but large old RM throughout.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Hemlock		20	Log/Pole	13		Northern White Cedar		Low	>20 feet	Pole
Red Maple		62	Log/Pole	13	88	Hemlock		Low	>20 feet	Pole
Basswood		4	Log	13		Black Ash		Medium	Variable	Sapling
Yellow Birch		4	Log/Pole	10		Conifers		Low	10 - 20 feet	Sapling
Northern White Cedar		10	Log/Pole	10		Balsam Fir		Low	Variable	Sapling
						Yellow Birch		Low	10 - 20 feet	Sapling
<b>34</b>	4110 - Sugar Maple Association	Sawtimber Well	125.7	118	81-110	N/A		2024: Beech scale and mortality on remaining beech. Thick ironwood and beech understory. Little desirable regeneration noted. Residual stocking is fine at this time. 2014: TS#61-010-13. Cut orange marked and all ash 5"+. Trace of hemlock near road; also scattered elm, bigtooth aspen.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			<b>Density</b>	<b>Avg. Height</b>
Red Maple		2	Log	16		Ironwood	High		5 - 10 feet	Sapling
Basswood		26	Log	15		Beech	Medium		Variable	Sapling
Beech		10	XLog/Log	18		Black Cherry	Low		5 - 10 feet	Sapling
Black Cherry		2	Log	14		Sugar Maple	Low		Variable	Sapling
Sugar Maple		60	Log	13	118					
<b>35</b>	6121 - Tamarack	Poletimber Poor	37.7	95	1-50	N/A	2012: remote call. 2004: Pitcher plant, labrador tea, leatherleaf. Floating bog. Patches of phragmites. May be some poison sumac, but unsure of ID.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Tamarack		85	Pole/Log	9	95	Black Spruce		Low	Variable	Sapling
Northern White Cedar		2	Log	12		Tag Alder		Medium	10 - 20 feet	Tall Shrub
Red Maple		3	Log	12		Sweet Gale		Low	5 - 10 feet	Tall Shrub
Black Spruce		5	Pole	8		Black Ash		Low	10 - 20 feet	Sapling
White Pine		5	XLog/Log	22						
<b>36</b>	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	3.4	15	Immature	N/A	2024; Shifted stand from NF- Forested. Aspen and SM creeping into stand. Let stand develop.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Bigtooth Aspen		20	Sapling	2	15					
Sugar Maple		50	Sapling	2	15					
Quaking Aspen		10	Sapling	2						
Black Cherry		10	Sapling	2						
Ironwood		10	Sapling	2						
<b>37</b>	500 - Water	Nonstocked	3.8		Unspecified	No	N. Branch Platte River			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
38	4119 - Mixed Northern Hardwoods	Poletimber Medium	4.0	68	1-50	N/A	2024: Low density hardwoods with SM,IW,Beech, BC saplings thick in understory. Good amount of SM. 2014:1 red oak log. Scattered log sized trees but mostly M regen.																																														
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39	6112 - Lowland Aspen	Sapling Medium	7.6	7	Immature	N/A	2024: Good aspen regeneration. Mixed with shrubs. Some scattered white pine retained from harvest. Clearcut in November 2016. Mixed shrubs include honeysuckle, red osier dogwood, high-bush cranberry, hawthorn, and some autumn olive. Scattered cedar, fir and cherry retained. Lots of poison ivy.																																														
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40	6112 - Lowland Aspen	Poletimber Well	23.3	42	Unspecified	N/A	2024: remote call. 2012: May be partly old habitat cut. BF seedlings. Some patches WC seedlings. Lots of CWD. A few elm.																																														
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41	6224 - Treed Bog	Nonstocked	13.9		Unspecified	No	2024: remote call. 2004: Floating bog mat, stunted WC & T. Pitcher plant. Phragmites along the road.																																														
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42	4319 - Mixed Upland Forest	Sawtimber Well	4.1	93	111-140	N/A	2024: Stand was marked for thinning but not sold. Best to stay out of this small stand and let it succeed naturally. Someone planted native seedlings in the opening and put little signs next to them. Most are browsed off. 2014: High water table, numerous depressions/puddles. Some CWD. The 3% for yellow birch includes cherry, beech, paper birch, and red oak. Small clearing with some concrete foundation, old outhouse pad, old utility pole (former park??). Garlic mustard is encroaching from the adjacent private land to the northwest.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**43** 3301 - Low Density Deciduous Trees Nonstocked 2.4 Unspecified No 2024: Old home site in adjacent stand noted in last inventory. Old field filling in with hardwoods.

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low		Sapling
Red Pine	Trace		Sapling
Beech	Trace		Seeding
Common Or Ground Juniper	Trace		Tall Shrub
Black Cherry	Trace		Pole
Sugar Maple	Low		Pole

**44** 4110 - Sugar Maple Association Poletimber Well 8.9 58 1-50 N/A 2024: Once cleared land that is filling in over time. Mix of maple logs, pole s and saplings. Did not notice old foundation that was mentioned in last inventory. May be in stand 43 which is more open. Stands were re-shaped and merged this inventory to match current status. 2014: Multiple dead and live apple trees. Lilac hedge. Stand has many dead or dying white ash (these are not included in the stand BA).

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Pole	8	
Sugar Maple	90	Pole/Sap/Log	8	58
Basswood	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Ironwood	Low	5 - 10 feet	Sapling
Sugar Maple	Medium	Variable	Sapling

**45** 6121 - Tamarack Poletimber Medium 40.6 125 51-80 N/A 2024: REMOTE CALL 2014: viewed/updated from roadside. Phragmites along the road. Some Michigan holly. 2004 comments: Boggy. Numerous WC seedlings 1-5'. Dense rings on tamarack - hard to count accurately. Some poison sumac.

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	75	Pole	8	125
Black Spruce	5	Pole	8	
Northern White Cedar	20	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Pole
Tag Alder	Medium	10 - 20 feet	Tall Shrub

**46** 4110 - Sugar Maple Association Sawtimber Well 388.9 113 81-110 N/A 2024: Avg BA =106. Stocking in stand is a little high but generally not hindering growth. Beech scale is present but not seen on all trees. Beech mortality not noted. SM is generally getting large and likely losing value as quality declines and hearts expand. SM diameters are variable but many trees 20'dbh +. The beech and the oversized sm would be the only reason to enter this stand at this time. Little desirable regeneration was found. Some ash and sm saplings but generally beech and ironwood found in understory. The drains seem more likely to have SM saplings. 2014:North 1/2, m/l north of loop road, was select harvested 5/08 through 3/10; some live ash remaining as of 12/13, but not expected to live much longer. South 1/2: salvage sales in 2013-2014 to remove all ash; south 1/3 of sale area done Dec. 2013, north 2/3 done Aug. 2014. Canopy includes small numbers of cherry, hemlock, ironwood, & elm trees. Hilly terrain. Scale on some of the beech. S1/2 thinned TS# 040-96. Completed 2003.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	20	Log	14	
Bigtooth Aspen	1	Log	15	
Sugar Maple	61	Log/Pole	13	113
Red Maple	2	Log	16	
Beech	15	Log/XLog	17	
Red Oak	1	XLog	24	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
White Ash	Low	5 - 10 feet	Sapling
Beech	Medium	10 - 20 feet	Sapling
Ironwood	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>47</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	0.9	97	81-110	N/A	Low & wet along the road and powerline R.O.W.																																																						
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<b>48</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	5.9	54	81-110	N/A	2022: 2022: remote call. 2012: Heavy winter deer use. Several old white pines.																																																						
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<b>49</b>	6121 - Tamarack	Poletimber Well	359.8	92	81-110	N/A	2014: Light blowdown. A few witches' brooms on BS. Some WP in SE part of stand. Scattered paper birch, poison sumac, winterberry, black spruce and cedar seedlings. Poor winter cover; no deer sign.																																																						
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<b>50</b>	42110 - Planted Red Pine	Sawtimber Well	8.5	55	141-170	N/A	2024: Avg BA = 153. Let stand grow in. Row-thinned summer 2008. Second thinning spring 2019, residual BA about 150.																																																						
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<b>51</b>	4130 - Aspen	Sapling Poor	5.6	3	Immature	N/A	2024: Heavy browsing. Some aspen getting past browsing level. Good sprouting but heavy deer damage. Let stand develop. Clearcut in 2020; 0.4 acre retention patch on steepest slope above red pine plantation near center of stand. Scattered retained oak, maple. West edge of sale was too steep to harvest; now lumped in with adjacent stand 52.																																																						
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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>52</b>	4110 - Sugar Maple Association	Sawtimber Well	47.4	108	51-80	N/A	2024: Fair-Good quality sugar maple. Patches of cherry regen and some sm saplings lower slope. Most regen is ironwood and beech. 2014: TS# 029-06. Orange marked thinning. TCR 2009. Traces of BC, IW, Bass, YB, QA.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	4	Log	15	
Basswood	6	Log	16	
Beech	13	Log	17	
Black Cherry	5	Log/Pole	14	
Sugar Maple	70	Log/Pole	12	108
Yellow Birch	2	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Black Cherry	Low	10 - 20 feet	Sapling
Ironwood	Low	10 - 20 feet	Sapling
Beech	High	Variable	Sapling

<b>53</b>	4111 - S.Maple, Hard Mast Association	Poletimber Well	3.4	55	1-50	N/A	2024: Old open area that is filling in. SM saps and poles on south facing slope and IW and beech filling in the rest. 2014: Hardwood regen poles and saps with occasional log. Stand has many dead or dying white ash (these are not included in the stand BA).
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	70	Pole/Log	8	55
Beech	18	Pole/Log	8	60
Black Cherry	2	Pole	8	
Ironwood	10	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	Variable	Sapling
Beech	Low	Variable	Sapling
Ironwood	Low	5 - 10 feet	Sapling

<b>56</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	8.4	120	81-110	N/A	2024: REMOTE CALL 2014; Dead ash; scattered cedar & hemlock seedlings. 2004: age approximated from poor ring count.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Log	12	
Balsam Fir	5	Pole	8	
Northern White Cedar	20	Log/Pole	10	
White Pine	2	XLog	24	
Hemlock	20	Log/Pole	12	
Red Maple	34	Log/Pole	12	120
Yellow Birch	2	Log	10	
Basswood	12	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	Medium	>20 feet	Pole
Hemlock	Low	>20 feet	Sapling

<b>57</b>	6220 - Alder/willow	Nonstocked	1.8	Unspecified	No	2024: REMOTE CALL 2016: Scattered cedar, tamarack, and black spruce seedlings. Ground cover and some of the tree/shrub cover info is from 2004 inventory. 2004 comments: Old habitat cut - no sign of deer browsing, though abundant dogwood. Adjacent cover marginal. Unlisted plant = unidentified ferns.
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Sub-Canopy Species	Density	Avg. Height	Size
Red Osier Dogwood	Low		Tall Shrub
Unlisted - See Comments	Medium		
Poison Sumac	Trace		Tall Shrub
Paper Birch	Trace		Sapling
Cattail spp.	Trace		Non-Wood
Conifers	Trace		
Tag Alder	High		Tall Shrub
Michigan Holly	Trace		Tall Shrub
Sphagnum Moss	High		Non-Wood
Mixed Sedges/Grasses	Medium		Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>58</b>	6120 - Lowland Cedar	Poletimber Medium	36.5	145	51-80	N/A	2024: REMOTE CALL 2012: moderate blowdown WC and BA have dead tops
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Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	2	Pole	7	
Black Spruce	10	Pole	8	
White Pine	2	Log	16	
Paper Birch	6	Pole	8	
Northern White Cedar	60	Pole/Log	9	145
Tamarack	20	Log	12	92

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	Medium	>20 feet	Sapling
Tag Alder	High	10 - 20 feet	Tall Shrub

<b>59</b>	42110 - Planted Red Pine	Sawtimber Medium	4.0	62	111-140	N/A	2024: Red pine stand on side hill. TS# 072-16. Cut orange marked. Harvest 2020. 1/2 acre grassy opening in SE corner. Austrian pine component is adjacent to the road on the bank. Stand was thinned in summer 2020.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	3	Log/Pole	10	
Bigtooth Aspen	3	Log/Pole	11	
Red Pine	90	Log/Pole	12	62
Beech	2	Log/Pole	12	
Austrian Pine	2	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	< 5 feet	Sapling
Bigtooth Aspen	Low	5 - 10 feet	Sapling

<b>60</b>	6224 - Treed Bog	Nonstocked	5.8		Unspecified	No	2024 remote call 2004: Floating bog with pitcher plant, stagnant tamarack. (Fen?)
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Sub-Canopy Species	Density	Avg. Height	Size
Sedges	Full		Non-Wood
Sphagnum Moss	Low		Non-Wood
Phragmites (spp.)	Trace		Non-Wood
Sweet Gale	Medium		Tall Shrub
Leatherleaf	Medium		Tall Shrub
Tamarack	Medium		Pole
Northern White Cedar	Low		Seeding
Cattail spp.	Low		Non-Wood

<b>61</b>	122 - Road/Parking Lot	Nonstocked	1.1		Unspecified	No	Valley Rd.
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<b>62</b>	6220 - Alder/willow	Nonstocked	44.5		Unspecified	No	2024 remote call 2004; skunk cabbage
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Sub-Canopy Species	Density	Avg. Height	Size
Mixed Sedges/Grasses	Full		Non-Wood
Northern White Cedar	Low		Pole
Tamarack	Trace		Log
Tag Alder	Full		Tall Shrub
Paper Birch	Trace		Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
<b>63</b>	42110 - Planted Red Pine	Sawtimber Well	16.7	55	111-140	N/A	2024: AVG BA = 138. Let stand develop. 2014: Thinned summer 2008. Stand has a 0.8 acre block of very poor-quality hybrid pine (Austrian x Japanese red) toward the south end with a thick hardwood understory. Mean of 6 BA plots = 152. Several bent/broken trees from winter storm damage; also some old weeviling and porcupine damage in places. Small strip of old sugar maple along north edge of stand. The SM understory is patchy, mostly under the hybrid pine. Thinned again fall 2018 except for the hybrid pine strip; a small area along the west edge with heavy porcupine damage was clearcut with a few residuals.																																																												
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<b>64</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.4	112	111-140	N/A	2024: Stand is lower quality hardwood mix on wetter gradient. Functioning as wintering shelter for deer. No treatment advised. 2014: Trace amounts of red oak, basswood. Numerous standing dead white ash. Stand is on lower slope of a large hardwood area.																																																												
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<b>67</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	30.8	25	1-50	N/A	2024: Good growth on aspen. Mixed density and diameters. Thick iv and beech understory in places. Let stand develop. 2014: Many semi-open patches. No snags/residuals from previous harvest. Mixed deciduous saplings = cherry, ironwood, ash. TS# 039-96. Cut all merchantable but no green marked. TCR 1998.																																																												
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<b>68</b>	122 - Road/Parking Lot	Nonstocked	6.2		Unspecified	No	Deadstream Rd.																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
<b>70</b>	6113 - Lowland Maple	Sawtimber Poor	4.5	86	1-50	N/A	2024: Wet ground with cattails. Deer wintering area. 2014: Small openings with cattails. Much of the standing timber is dead or dying, especially ash. Mixed deciduous regen. includes beech, yellow birch & ironwood.																																																							
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<b>72</b>	4130 - Aspen	Sapling Well	2.7	21	Immature	N/A	2024; Older aspen on nw corner. Must have been unmerchantable. at time of last harvest. Let stand grow in.																																																							
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<b>73</b>	6120 - Lowland Cedar	Poletimber Medium	48.0	107	51-80	N/A	2024: remote call 2004: Standing dead black ash poles; canopy changed to more cedar dominance with a lower canopy closure than in 2004 survey because of ash die-off. 2004 comments: Some blowdown. Skunk cabbage. Alder thick in canopy gaps.																																																							
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<b>74</b>	500 - Water	Nonstocked	12.7		Unspecified	No	Platte River and lower stretch of N. Branch Platte River																																																							
<b>75</b>	6220 - Alder/willow	Nonstocked	5.0		Unspecified	No																																																								
<b>76</b>	4110 - Sugar Maple Association	Poletimber Medium	5.4	56	1-50	N/A	2024. Mixed maple sizes with some large old trees scattered and poles and saplings filing in over time. Let stand develop. 2014; This is an old field, with scattered dead fruit trees, succeeding to hardwoods; has a mix of dense maple regeneration and open patches, with a row of mature, planted sugar maple along both sides of the road. Standing dead ash. Mixed red pine and Scotch pine saplings and poles.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**77**      6120 - Lowland Cedar      Sawtimber Medium      11.4      147      1-50      N/A      2024: remote call. 2004: Lots of skunk cabbage. Much blowdown.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	1	Pole	8		Northern White Cedar	Low	>20 feet	Pole
Paper Birch	10	Log	12		Tag Alder	Medium	>20 feet	Tall Shrub
Northern White Cedar	68	Log/Pole	10	147				
Tamarack	12	Log	14					
Red Maple	5	Log	14					
White Pine	4	XLog	20					

**78**      42110 - Planted Red Pine      Sawtimber Medium      61.2      64      111-140      N/A      Stand was thinned in 1998 according to OIPC. TSC-8-96. Stand has some old sugar maple along north edge and some scattered black and pin cherry. Marked thinning done in fall 2018 (except hardwood/white pine along edges thinned late 2019).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	94	Log/Pole	11	64	Sugar Maple	Low	Variable	Sapling
Red Maple	2	Log	12		Beech	Medium	10 - 20 feet	Sapling
Sugar Maple	2	Log	12		Ironwood	Medium	5 - 10 feet	Sapling
Black Cherry	2	Log	12					

**79**      6120 - Lowland Cedar      Sawtimber Medium      17.6      104      51-80      N/A      2024: remote call. 2014: Standing dead, dying ash; canopy giving way to cedar. Alder pockets along the river. 2004 comments: Lots of blowdown. Some very large WC in patches.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	20	Log/Pole	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	63	Log/Pole	12	104	Northern White Cedar	Medium	Variable	Pole
Red Maple	2	Log	12					
Basswood	15	Log	13					

**80**      6120 - Lowland Cedar      Poletimber Poor      7.3      112      1-50      N/A      2024: remote call. 2004: lots of blowdown; skunk cabbage

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	4	Log/Pole	10		Black Ash	Low	>20 feet	Sapling
Tamarack	10	Log	12		Tag Alder	High	10 - 20 feet	Tall Shrub
Black Ash	2	Pole	7					
White Pine	3	XLog	20					
Northern White Cedar	75	Log/Pole	10	112				
Paper Birch	6	Log/Pole	12					

**81**      4130 - Aspen      Sapling Well      18.6      24      Immature      N/A      2024: Decent stocking and growth on aspen. Let stand develop. 2014: Some paper birch, white ash and sugar maple saplings; scattered rubus patches. Super canopy of remnant mature red oak. Small amount of autumn olive along west edge. Some small openings. TS#018-96. TCR 9/ 2000. Cut all merchantable but no oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	XLog/Log	26		Beech	Medium	Variable	Sapling
Bigtooth Aspen	60	Sapling	3	24	Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry	10	Sapling	3	24	Ironwood	Medium	5 - 10 feet	Sapling
Beech	10	Sapling	3					
Ironwood	10	Sapling	2	24				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
<b>82</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	22.3	94	51-80	N/A	2024: remote call. 2004: includes a couple stretches of alder along river. Older blowdown, not as difficult walking as other stands nearby.																																																	
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<b>83</b>	4110 - Sugar Maple Association	Sawtimber Poor	5.5	102	1-50	N/A	2024: little desirable regeneration. Beech sprout and ironwood. Some cherry thickets. 2014: Seed tree cut late 2019. Some mature hardwoods retained, plus some patched of advanced maple saplings.																																																	
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<b>84</b>	4110 - Sugar Maple Association	Sawtimber Well	85.2	99	81-110	N/A	2024: TS#61-030-06. TCR 2009. Cut orange marked . AVG BA=100. Let stand grow in. Little desirable regeneration- some maple in openings with ash ironwood and beech. 2013: Some forbs, moderate cwd, occasional snag.																																																	
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<b>85</b>	330 - Low-Density Trees	Nonstocked	3.6		Unspecified	No	2024: Some SM, RP, Scotch pine seeded in. SM is creeping in from edges.																																																	
<b>86</b>	6233 - Wet Meadow	Nonstocked	1.7		Unspecified	No	2024: remote call. 2004: Waterfowl loafing area along this shore. Mouth of a stream here.																																																	
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<b>87</b>	6120 - Lowland Cedar	Poletimber Medium	63.1	105	51-80	N/A	2024: remote call. 2004: lots of blowdown in patches																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>88</b>	6121 - Tamarack	Sawtimber Well	132.1	101	81-110	N/A	2024: remote call. 2004: relatively little blowdown		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		5	Pole/Log	8		Tag Alder	Low	10 - 20 feet	Tall Shrub
Northern White Cedar		2	Pole/Log	7		Northern White Cedar	High	>20 feet	Pole
Tamarack		93	Log/Pole	10	101				
<b>89</b>	4110 - Sugar Maple Association	Poletimber Well	7.0	55	51-80	N/A	2024: Stand is growing in and developing as saplings and poles grow in. Scotch pine is declining and could be removed when there is an opportunity. 2014: Single row of mature, planted sugar maple along the road. Standing dead/dying white ash ( not included in BA). Small number of black walnut trees at south end (10-12" dbh). Scotch pine is mostly in a 1/2 acre planted block in the NE part of the stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		85	Pole/Sap/Log	8	55	Ironwood	Medium	5 - 10 feet	Sapling
Ironwood		2	Sapling	5		Beech	Low	5 - 10 feet	Sapling
Black Cherry		3	Pole	8		Sugar Maple	High	Variable	Sapling
Scotch Pine		10	Log	12		Scotch Pine	Low	Variable	Sapling
<b>90</b>	6123 - Lowland Fir	Poletimber Poor	8.4	61	51-80	N/A	2024: remote call. 2014: Standing dead/dying ash was the previous overstory; understory fir, etc. is now the overstory. Some of the ash have live stem suckers.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		30	Pole	8		Tag Alder	High	10 - 20 feet	Tall Shrub
Balsam Fir		64	Pole	7	61	Northern White Cedar	Low	Variable	Sapling
Northern White Cedar		2	Pole	9		Balsam Fir	Low	>20 feet	Sapling
Black Spruce		2	Pole	7		Michigan Holly	Low	10 - 20 feet	Tall Shrub
Red Maple		2	Log/Pole	11		Northern White Cedar	Low	>20 feet	Pole
<b>91</b>	6123 - Lowland Fir	Poletimber Poor	27.6	56	1-50	N/A	2024: remote call. 2014: Standing dead/dying ash was the previous overstory; understory fir, etc. is now the overstory. Some of the ash have live stem sprouts. Scattered white pine. Some areas without conifer cover; just dead ash and brush.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		80	Pole	8	56	Black Ash	Medium	Variable	Sapling
Paper Birch		5	Log/Pole	10		Northern White Cedar	Low	10 - 20 feet	Sapling
Northern White Cedar		5	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Quaking Aspen		5	Log	12					
Red Maple		5	Log/Pole	12					
<b>92</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	5.3	115	81-110	N/A	2024: remote call. 2014 re-inventory from roadside observation. Standing dead ash.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		35	Pole/Sapling	8		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar		35	Pole/Log	8	115	Northern White Cedar	Low	Variable	Pole
Tamarack		30	Log/Pole	11		Tag Alder	Low	10 - 20 feet	Tall Shrub
<b>93</b>	3102 - Grass	Nonstocked	0.9		Unspecified	No			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>					
Quaking Aspen		Low		Pole					
Honeysuckle (spp.)		Low		Tall Shrub					
White Pine		Trace		Sapling					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
94	6220 - Alder/willow	Nonstocked	13.0		Unspecified	No	2024: remote call. 2012: Standing dead/dying black ash.					
								<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
								Mixed Sedges/Grasses	Full		Non-Wood	
								Northern White Cedar	Trace		Pole	
								Black Ash	Trace		Pole	
								Paper Birch	Trace		Pole	
								Tag Alder	Full		Tall Shrub	
								Red Maple	Trace		Pole	
								Quaking Aspen	Medium		Pole	
								Balsam Fir	Trace		Pole	
95	6112 - Lowland Aspen	Sawtimber Poor	5.0	60	1-50	N/A	2024: remote call 2012: Some big, wolfy open grown aspen. Aspen is in poor condition; some mortality. Standing dead/dying black ash, some with live suckers.					
								<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>
								Quaking Aspen	94	Log	13	60
								Red Maple	3	Log/Pole	11	
								Paper Birch	3	Log/Pole	11	
								<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
								Balsam Fir	Low	>20 feet	Pole	
Northern White Cedar	Low	>20 feet	Pole									
Black Ash	Low	Variable	Sapling									
Tag Alder	Low	Variable	Tall Shrub									
96	3102 - Grass	Nonstocked	5.2		Unspecified	No	2024: remote call. 2014: Scattered spruce saplings, black cherry poles, dead ash. Mixed fruiting shrubs include mostly honeysuckle, plus highbush cranberry, red osier dogwood, hawthorn, autumn olive, and grape.					
								<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
								Mixed Fruiting Shrubs	Low		Non-Wood	
								Northern White Cedar	Trace		Sapling	
								Quaking Aspen	Trace		Pole	
								Balsam Poplar	Trace		Pole	
								Paper Birch	Trace		Pole	
								Tag Alder	Trace		Tall Shrub	
								Quaking Aspen	Low		Sapling	
								Willow spp.	Trace			
97	122 - Road/Parking Lot	Nonstocked	1.4		Unspecified	No	Platte Rd.					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**98** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 9.1 110 51-80 N/A 2024: remote call. 2014: Part of this stand was a past habitat cut. Small amounts of yellow birch, elm. Lots of cedar is dead or has dead tops.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Log	18	
Northern White Cedar	44	Log/Pole	10	110
Basswood	2	Log/Pole	11	
Hemlock	3	Log/Pole	13	
Quaking Aspen	30	Pole	8	
Tamarack	4	Log	13	
Balsam Fir	10	Pole	8	
Paper Birch	5	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	Variable	Tall Shrub
Paper Birch	Low	>20 feet	Sapling
Black Ash	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

**99** 4130 - Aspen Sapling Medium 1.3 13 Immature N/A Stand originated from patch clearcut in 7/2010. Scattered residual sugar maple, beech, yellow birch and hemlock, mostly on steep bank along road.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	2	13
Bigtooth Aspen	70	Sapling	2	13
Black Cherry	5	Sapling	2	13
Ironwood	5	Sapling	2	
Sugar Maple	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	< 5 feet	Sapling
Common Blackberry	Medium	< 5 feet	Tall Shrub

**100** 4111 - S.Maple, Hard Mast Association Sawtimber Well 103.0 113 111-140 N/A 2024: Avg BA= 130. Stocking is variable. Heavier RM on slopes down by the lower area and river. Large woody debris heavy in stand. Stand could be thinned, but stand is factor limited for conservation values. A lot of terrain to work around. The stand is overstocked in general and there is enough quality to justify thinning if conservation restrictions were eliminated.. Stick nest noted mid stand on slope. . Reference point created. 2014: Dead/dying white ash. 2004 comments: Some aspen has shelf fungi and some are over 20" in diameter and concentrated somewhat in draws. Some slash and windfall and decent cwd. Lots of relief in topography. Moderate amount of snags.

Canopy Species	% Cover	Size Class	DBH	Age
Beech	12	Log/XLog	16	
Bigtooth Aspen	3	Log	15	
Black Cherry	4	Log	14	
Sugar Maple	50	Log/Pole	12	113
Hemlock	2	Log	15	
Basswood	15	Log	14	
Red Maple	13	Log/Pole	13	
Red Oak	1	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	10 - 20 feet	Sapling
Ironwood	Low	Variable	Sapling
Sugar Maple	Low	10 - 20 feet	Sapling

**101** 6220 - Alder/willow Nonstocked 7.4 Unspecified No Mixed lowland conifers = WC, BF, T.

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Trace		Sapling
Cattail spp.	Medium		Non-Wood
Reed Canary Grass	High		Non-Wood
Tag Alder	High		Tall Shrub
Conifers	Trace		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**102** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 2.1 98 81-110 N/A Riparian area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	15	Log/Pole	11		Northern White Cedar	Medium	>20 feet	Pole
Red Maple	40	Log/Pole	13	98	Hemlock	Medium	>20 feet	Pole
Quaking Aspen	15	Log	11		Ironwood	Low	Variable	Sapling
Yellow Birch	12	Pole/Log	8		Deciduous Saplings	Low	Variable	Sapling
Paper Birch	5	Pole/Log	8		White Ash	Low	5 - 10 feet	Sapling
Northern White Cedar	13	Pole/Log	8					

**103** 612 - Lowland Coniferous Forest Sawtimber Well 43.2 93 51-80 N/A 2024: remote call.

**104** 6121 - Tamarack Poletimber Well 7.2 91 81-110 N/A 2024: remote call.

**105** 4130 - Aspen Sapling Poor 3.1 4 Immature N/A 2024: Patchy aspen regen. Blackberries. Formerly an aspen-dominated lobe of stand 46; clearcut with scattered residuals in spring 2019.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	75	Sapling	1	4	Black Raspberry	Medium	5 - 10 feet	Tall Shrub
Ironwood	20	Sapling	1	4				
Black Cherry	5	Sapling	1	4				

**115** 6113 - Lowland Maple Poletimber Well 4.0 69 51-80 N/A 2024: remote call 2017: Age is from older/larger aspen. Seasonally wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Log/Pole	10	69	Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub
Red Maple	75	Log/Pole	10	69				