



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52135

Entry Year 2017

Acreage: 3,827

County Emmet

Management Area: Mackinaw Lake Plain

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**Revision Date:** 2015-05-08

**Stand Examiner:** Tricia St. Pierre

**Legal Description:**

T39N R04W, Sec 22, 23, 24, 25, 26, 27, 34, 35, and 36.

**Identified Planning Goals:**

The goals within this compartment are to provide protection and sound management practices for the natural resources herein and to sustainably manage the recreational opportunities those resources provide. There are many economic, social, and environmental consequences to consider when making management decisions within this compartment.

**Soil and topography:**

This compartment contains three distinct soil type associations. The first exists in the Dune areas to the west of French Farm Lake. This association is referred to as the Deer Park Dune Land association. It contains deep, well drained, nearly level to very steep sandy soils on old lake beaches. The next association is the Carbondale-Tawas-Roscommon Association which exists on both sides of French Farm Lake. The soil type is present between the lake beach ridges, as well as in the low lying Cedar types to the southeast of French Farm Lake. This association is comprised of poorly drained organic and sandy soils. The third soil group is the East Lake-Blue Lake-Kalkaska association, which is located in the eastern sections of this compartment. These soils are well drained, nearly level, sandy soils.

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

State ownership in this compartment is fairly well consolidated with the exception of one private 40-acre parcel and external boundaries that adjoin with private, not state, ownership. The Trails End Bay Colony is located west of the compartment along Wilderness Park Drive.

**Unique Natural Features:**

There are many unique natural features that exist or have the potential to exist within this compartment. There is a large wooded Dune and Swale complex west of French Farm Lake, along a hardwood-conifer swamp and a Great Lakes Marsh. Eagle, Osprey, Loon, and tern also exist or have the potential to exist within this compartment. Other unique species include Sprague's pygarcia, pinedrops, beauty sedge, dwarf lake iris, Lake Huron Tansy, Pitcher's thistle, Houghton's goldenrod, Hill's pondweed, Ram's head lady slipper, butterwort, Torrey's bulrush, spotted pondweed, limestone oak fern, Michigan monkey flower, and Hungerford's crawling water beetle. There is great potential for eagle, osprey, Great Blue Heron, merlin, goshawk, and Blanding's Turtle.

**Archeological, Historical, and Cultural Features:**

As mentioned in the locked comments, 20EM57 is located within this compartment. The site is still considered significant, and should be avoided. This stand should also not be used as a staging ground, workspace, or driven through as part of work in other nearby stands.

The location of this compartment in relation to Mackinaw, as well as its unique landforms, makes it a sensitive area with respect to cultural, historical, and archaeological values.

**Special Management Designations or Considerations:**

There is a significant inclusion of a sensitive Dune and Swale complex to the west of French Farm Lake. The stands therein are protected by the Sand Dune Protection and Management program, which prevents any removal of vegetation, among other restrictions. The legal act pertaining to this protected area is Part 353, Sand Dune Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

**Watershed and Fisheries Considerations:**

Both French Farm Lake and the French Farm Creek are located within this compartment. Though none of the treatments proposed appear as though they will impact this area directly, these are small waterbodies that would be significantly impacted through the loss of riparian vegetation, so the appropriate BMP's should be followed.

**Wildlife Habitat Considerations:**

French Farm Flooding is a waterbody managed for wildlife values. Periodic drawdowns of the flooding will promote

vegetation for waterfowl. Furbearers such as beaver and muskrat are common.

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

Sections 22-27, T39N R4W, Emmet County

Surface sediments consist of lacustrine sand and gravel and dune sand. The glacial drift thickness varies between 10 and 100 feet. The Devonian Detroit River and Bois Blanc groups subcrop below the glacial drift. The Detroit River could be used for stone and there is a quarry in Section 24 (Bois Blanc Quarry?). A State gravel pit (French Farm Pit) is located and leased (Nonmetallic lease 160) in Section 25 and potential appears to be good. The nearest oil and gas production, the Antrim Shale gas play, is located 36 miles to the south. There is no known oil and gas potential in the area.

### **Vehicle Access:**

The vehicular access to this compartment is decent, especially with the snowmobile trail bisecting the east half and utility lines cutting across other portions (although these are typically low and wet maintenance-access trails). There are a few navigable logging trails within the stands themselves, but the predominant access will be along county roads or via the snowmobile trail. The Dune and Swale complex to the west of French Farm Lake is accessible in part by two roads running parallel to the shoreline, one of which continues on to the dam at the south end of the lake.

### **Survey Needs:**

There exist no imminent survey needs, and most corners have been established and are documented.

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

Recreational opportunities abound in this compartment. Fishing, hunting, snowmobiling, hiking, and bicycling are the most popular, while many other opportunities exist. The North Central State Trail provides summer enthusiasts with a bicycling route, and winter adventurers with a groomed snowmobile trail. The North Country Trail also runs through this compartment, receiving foot and mountain bike traffic. Ice- and open water- fisherman frequent French Farm Lake. There were meandering cross country ski trails throughout parts of this compartment, as well as snowshoe trails over the winter.

### **Fire Protection:**

There is good water access on the west side of French Farm Lake. Lake Michigan would be a good option too. There aren't many highly volatile or fire-dependent cover types within this compartment, and combined with the lowland swamps having a very long fire-disturbance pattern, fire danger is minimal.

### **Additional Compartment Information:**

There is a very large thicket of Japanese Knotweed north of this compartment on County land. It should be eradicated and the surrounding area should be closely monitored. Invasives would be devastating to this compartment, especially water/edge invasive species.

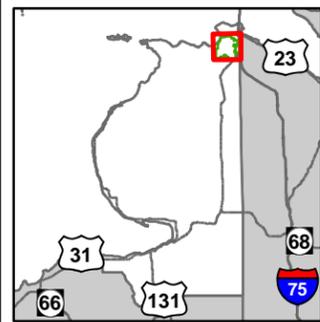
### **The following reports from the Inventory are attached:**

- 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:**

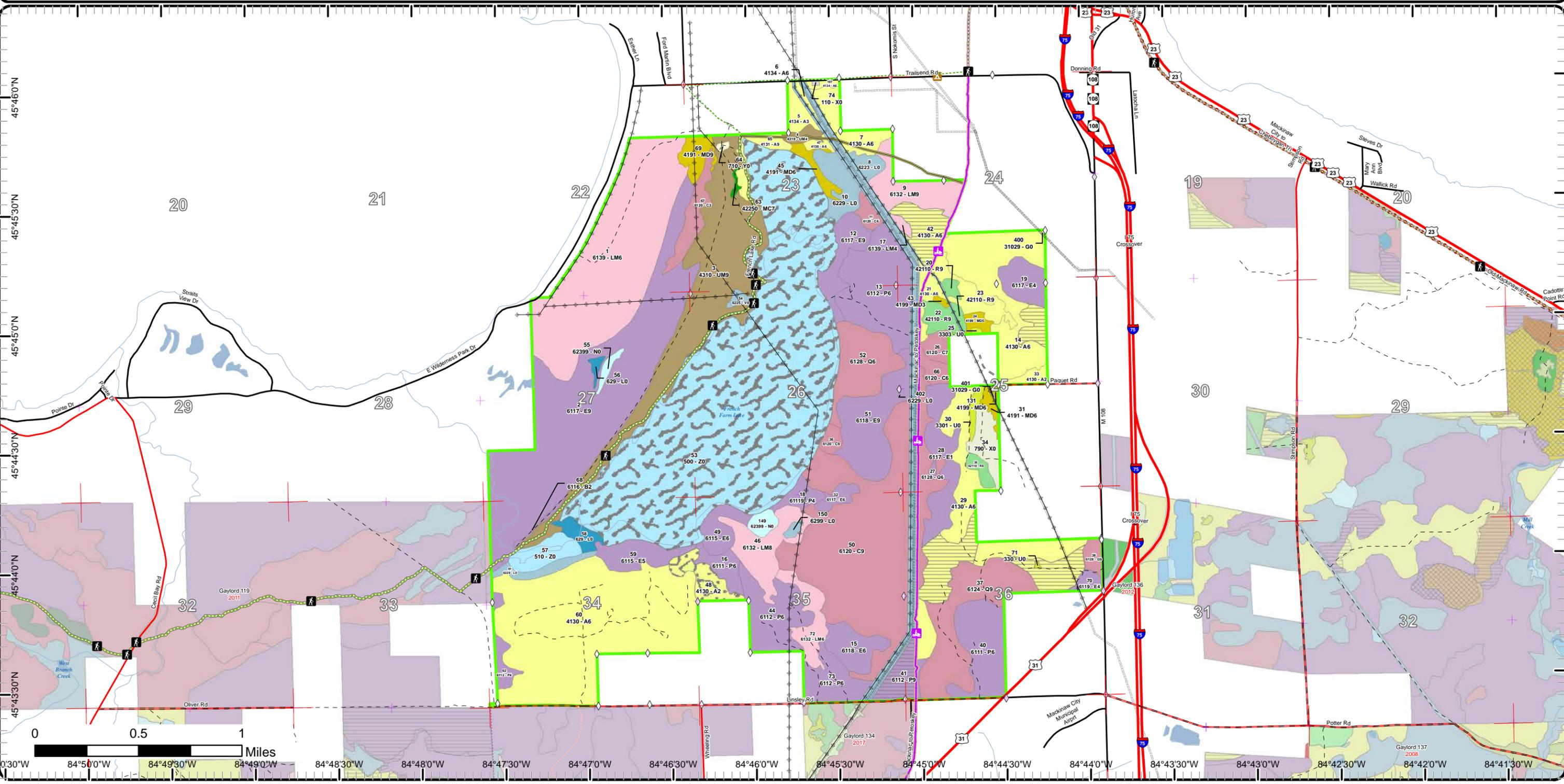
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments



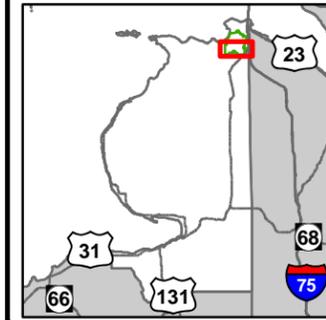
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 T39N,R04W, Sec. 22-27, 34-36  
 County: Emmet  
 Unit: Gaylord  
 Mgmt Area: Mackinaw Lake Plain  
 YOE: 2017  
 Acres: 3827 GIS Calculated  
 Examiner: Tricia St. Pierre  
 Map Revised: 5/20/2015  
 Map Phase: Pre-Review

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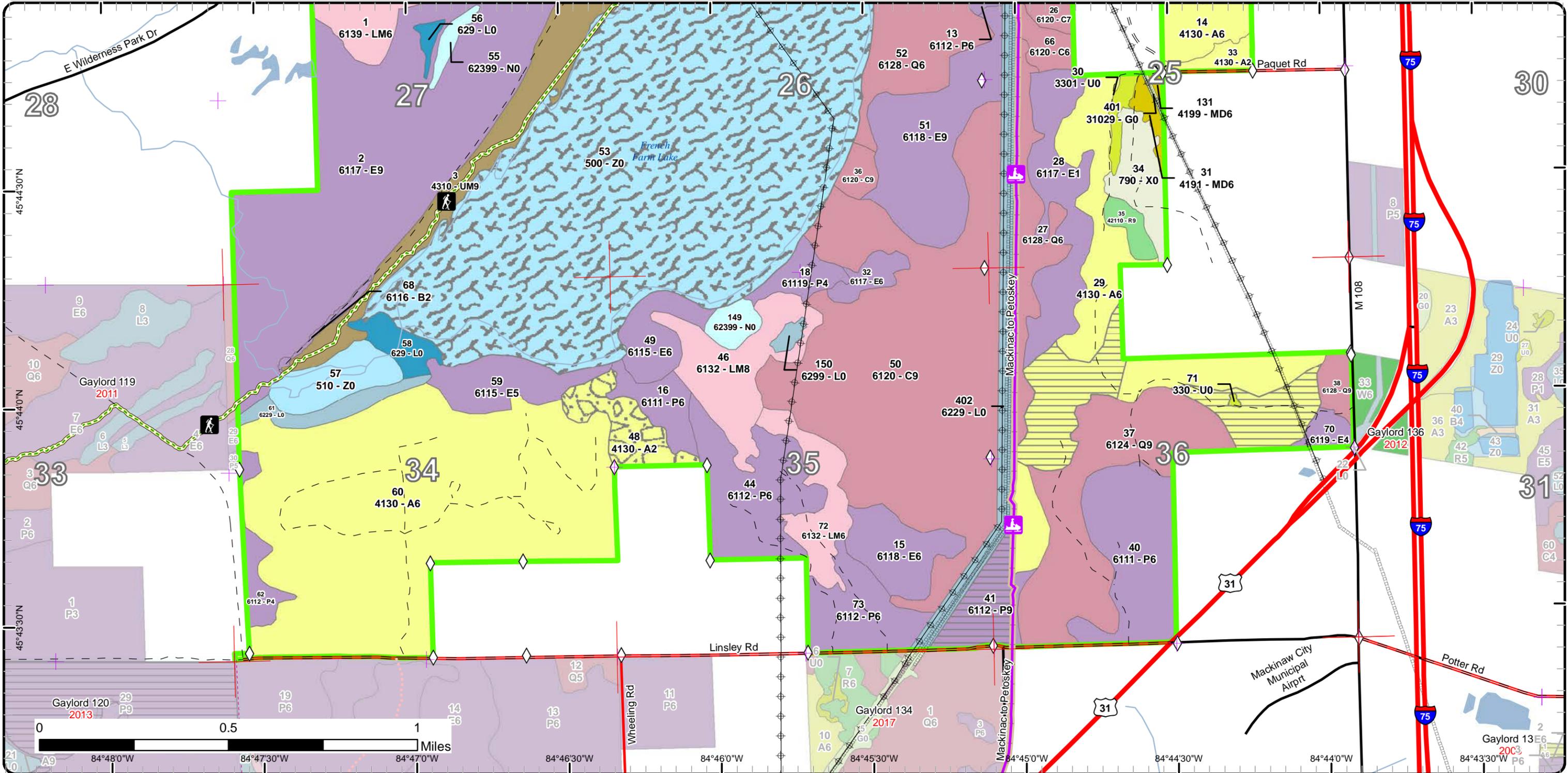


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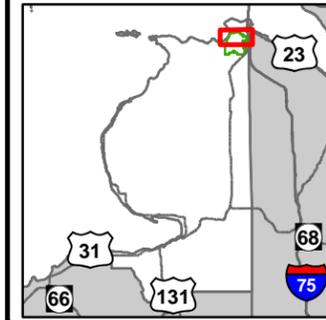


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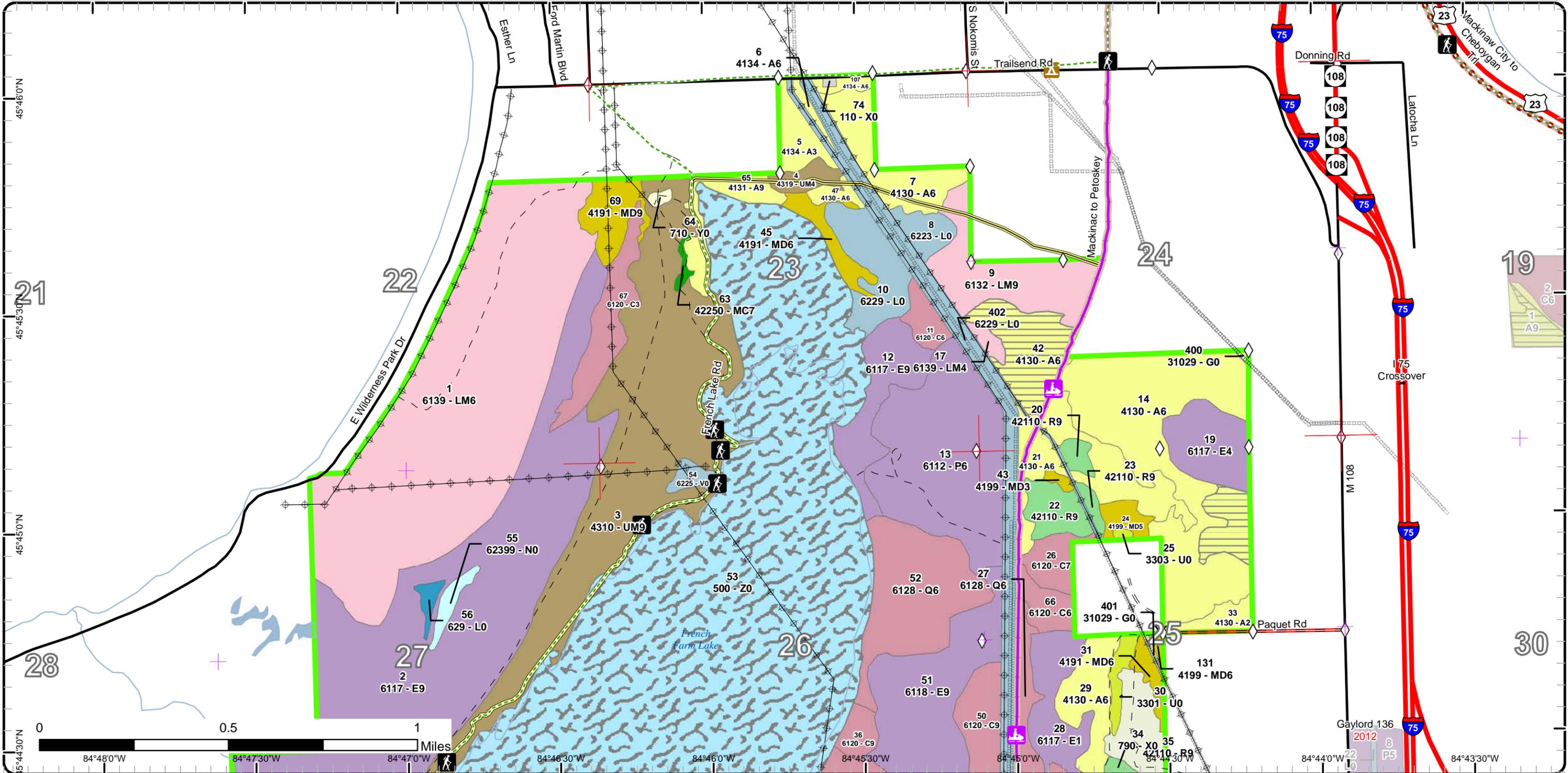


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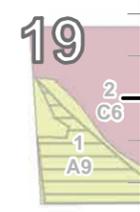
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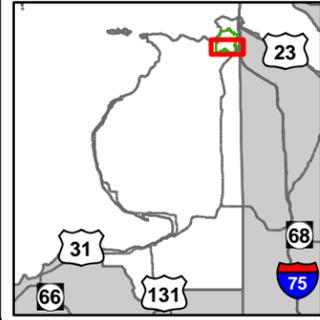
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Gaylord 136  
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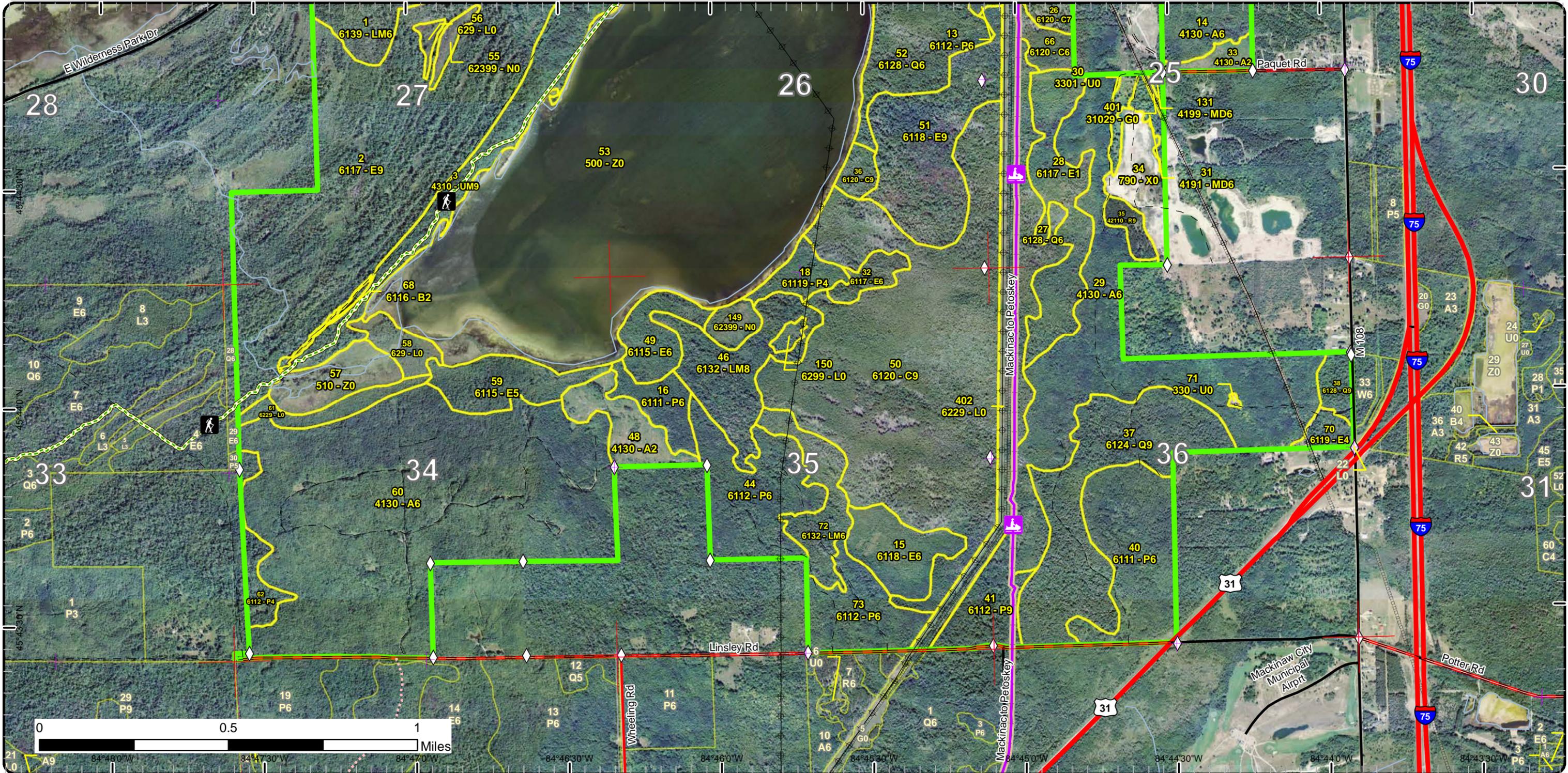
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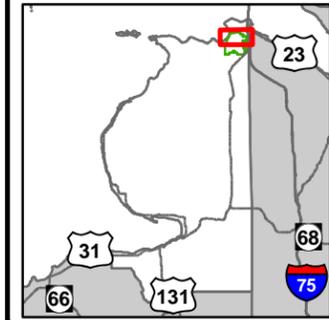
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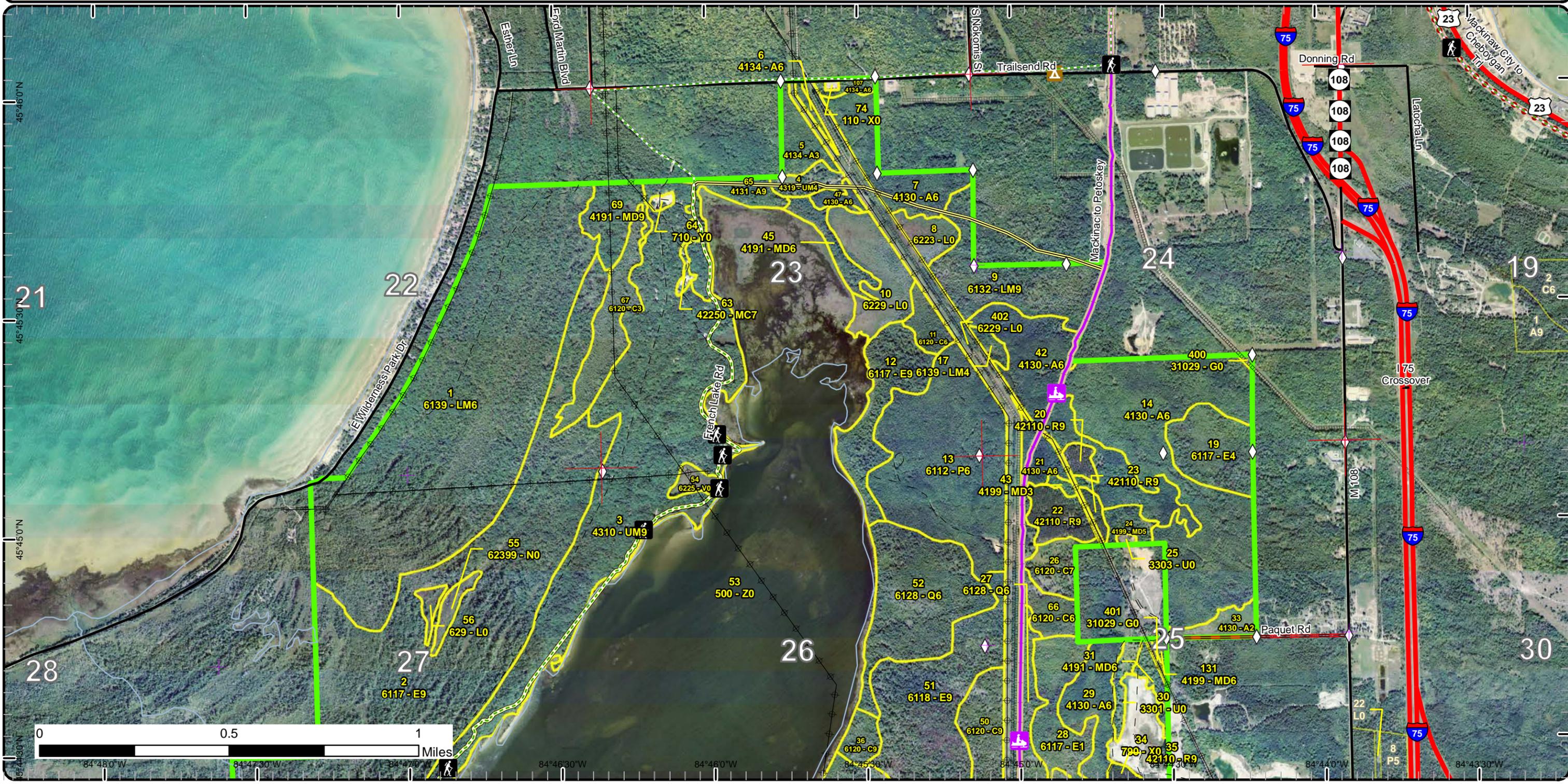


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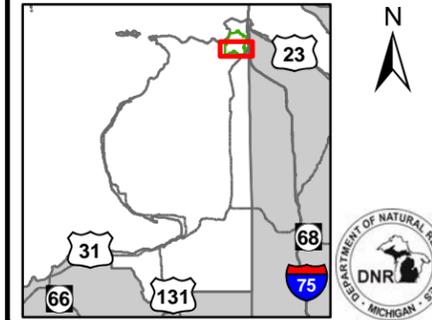


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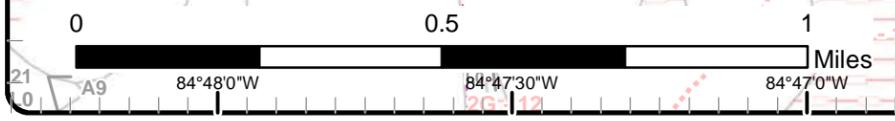
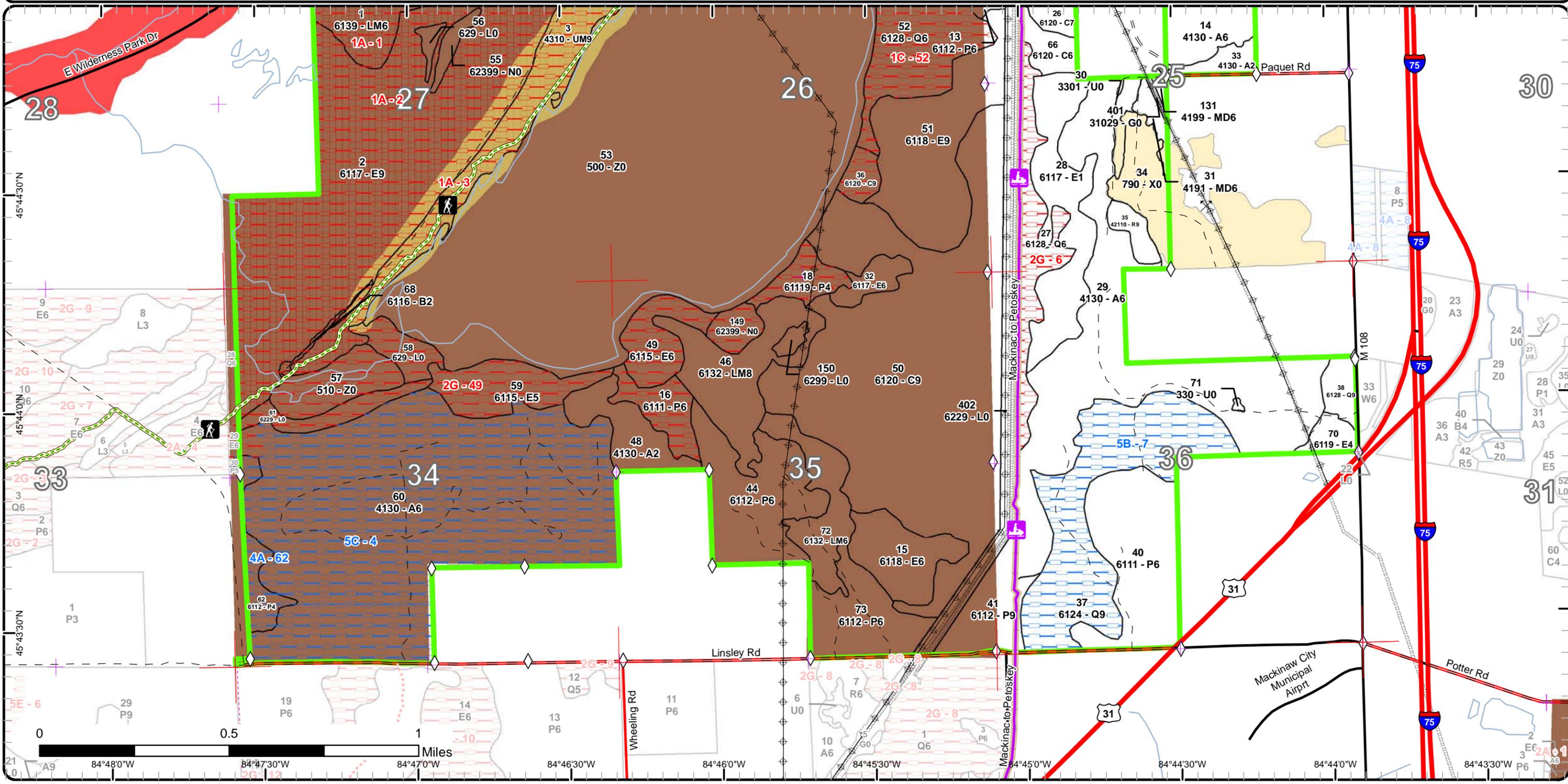


# Special Conservation Areas & Site Conditions Map

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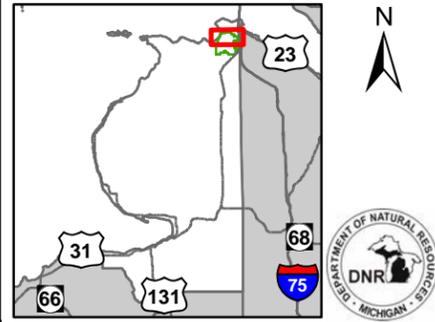


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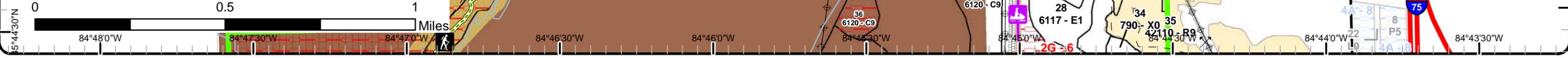
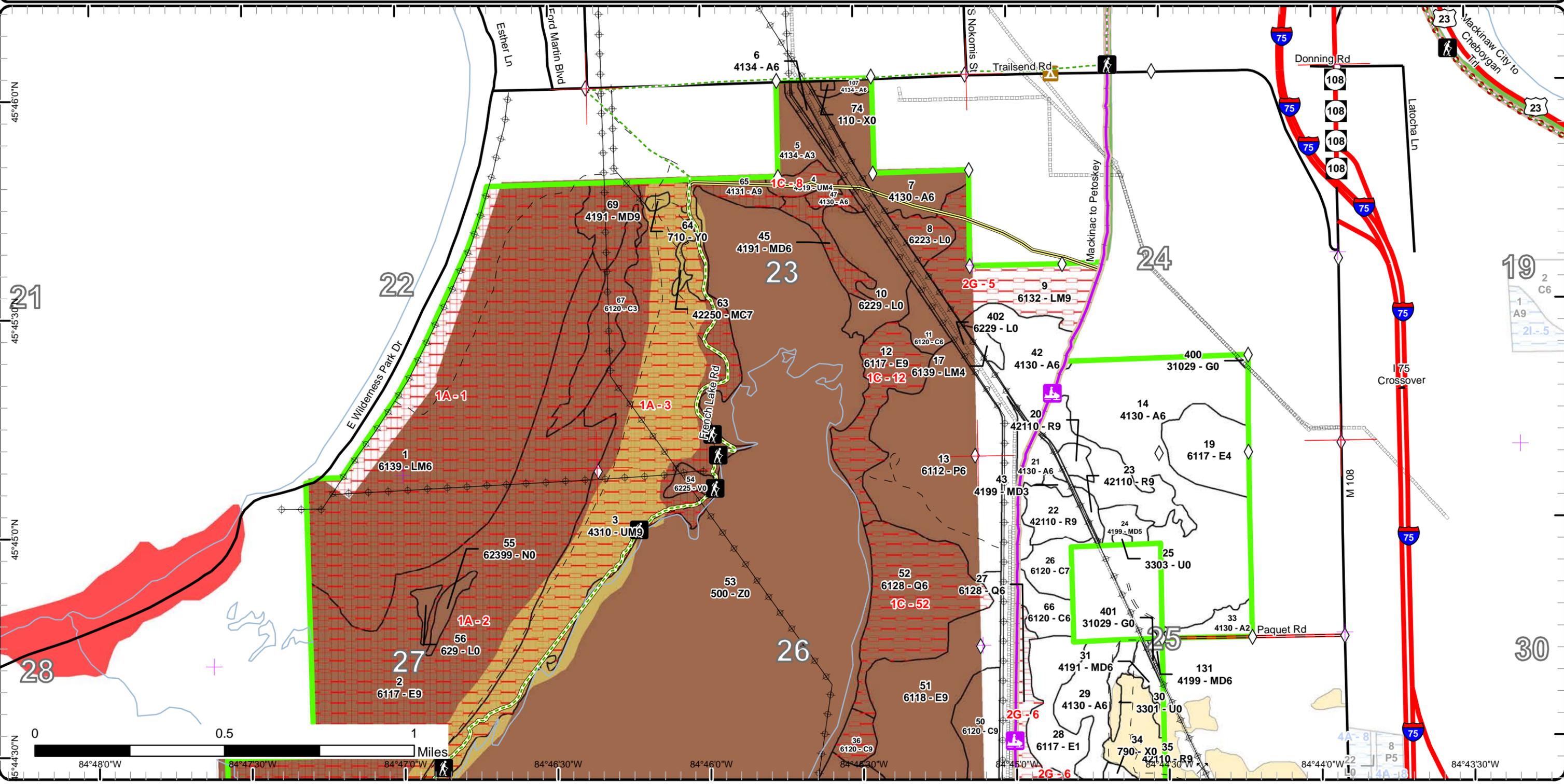


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Report 1 – Total Acres by Cover Type and Age Class

Gaylord Mgt. Unit

Compartment 135 Year of Entry 2017

Tricia St. Pierre : Examiner



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	32	0	0	7	697	0	0	0	16	0	0	0	0	0	0	0	0	752
Bare/Sparsely Vegetated	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	25	0	7	18	11	0	269	0	0	0	0	0	330
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Aspen/Balsam Poplar	0	0	0	0	0	264	0	13	0	13	26	0	0	0	0	0	0	0	316
Lowland Conifers	0	0	0	0	0	0	0	0	0	130	0	0	58	0	0	0	0	9	197
Lowland Deciduous	0	0	0	51	26	36	50	9	0	0	32	0	0	0	0	0	0	396	600
Lowland Mixed Forest	0	0	0	0	3	29	0	0	90	0	0	0	0	0	0	0	0	261	383
Lowland Shrub	154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	2	6	0	1	5	16	0	10	0	0	0	0	0	0	40
Natural Mixed Pines	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Paper Birch	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Red Pine	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	27
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	0	0	0	0	0	7	0	0	0	0	0	0	0	205	0	0	0	0	212
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	758	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	758
<b>Total</b>	<b>964</b>	<b>32</b>	<b>2</b>	<b>51</b>	<b>38</b>	<b>1039</b>	<b>102</b>	<b>23</b>	<b>104</b>	<b>193</b>	<b>69</b>	<b>10</b>	<b>327</b>	<b>205</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>666</b>	<b>3825</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2017

Compartment 135

Total Compartment Acres: 3,827

### Acres of Harvest

Commercial Harvest - 165  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 759

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	142	0	0	0	0	0	0	0	0	142
Lowland Aspen/Balsam Poplar	23	0	0	0	0	0	0	0	0	23
<b>Total</b>	<b>165</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>165</b>

### Proposed and Next Step Treatments by Harvest Method

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



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
14	52135014-Cut	13.5	4130 - Aspen	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

**Habitat Cut: No**                      **Site Condition: None**

Prescription Clearcut all trees to 2" dbh. Area retention may be left in islands or on stand edges, especially around low areas or underrepresented species. Do  
Specs: not cut any pine or spruce.

Next Step  
Treatments:

Acceptable Acceptable regeneration will satisfy minimum stocking requirements for aspen.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

14	52135014- Cutx	34.8	4130 - Aspen	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Proposal
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**Habitat Cut: No**                      **Site Condition: None**

Prescription Clearcut all trees to 2" dbh. Area retention may be left in islands or on stand edges, especially around low areas or underrepresented species. Do  
Specs: not cut any pine or spruce.

Next Step  
Treatments:

Acceptable Regeneration will satisfy minimum stocking levels for aspen.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

29	52135029-Cut	37.4	4130 - Aspen	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No**                      **Site Condition: None**

Prescription Clearcut all trees to 2" dbh. Area retention may be left in islands or on stand edges, especially around low areas or underrepresented species. Do  
Specs: not cut any pine or spruce.

Next Step  
Treatments:

Acceptable Acceptable regeneration will meet the minimum stocking requirements for aspen.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

29	52135029- Cutx	27.1	4130 - Aspen	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No**                      **Site Condition: None**

Prescription Clearcut all trees to 2" dbh. Area retention may be left in islands or on stand edges, especially around low areas or underrepresented species. Do  
Specs: not cut any pine or spruce.

Next Step  
Treatments:

Acceptable Acceptable regeneration will satisfy minimum stocking levels for aspen.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
41	52135041-cut-oi	22.6	6112 - Lowland Aspen	Sawtimber Well	90	141-170	Harvest	Clearcut	61299 - Mixed Swamp Conifer (OI)	Even-Aged	Completed - Pending Edits

**Habitat Cut:** No      **Site Condition:** None

Prescription OPIC - FMD: Swamp conifer stand with lowland poplar and swamp HWD componet. Bam is declining heavily Stand is low and wet most of year. Final harvest during winter or dry season. Protect cedar in specs, . D.H. 03/28/2005 Per comp review on June 22,  
Specs:

Next Step  
Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for lowland poplar and swamp hardwood. A mix of conifer is also acceptable in the composition. This stand might take longer than average to regenerate to standard levels.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

42	52135042-Cut	29.5	4130 - Aspen	Poletimber Well	42	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut:** No      **Site Condition:** None

Prescription Clearcut all trees to 2" dbh. Area retention may be left in islands or on stand edges, especially around low areas or underrepresented species. Do not cut any pine or spruce.  
Specs:

Next Step  
Treatments:

Acceptable Regen: Acceptable regeneration will satisfy the minimum stocking levels for aspen.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

48	52135048-Monitor	24.1	4130 - Aspen	Sapling Medium	5	Immature	Monitoring	Natural Regen (Intermediate)	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut:** Yes      **Site Condition:** None

Prescription Regeneration survey to determine adequate stocking of stand. Considering similar stands in this compartment with similar histories, this will likely just need more time to regenerate.  
Specs:

Next Step  
Treatments:

Acceptable Regen: Acceptable regeneration includes a mix of upland and lowland associated species including (but not limited to) aspen, maple, and mixed conifers.

Other Comment: There was snow on the ground during inventory, so stocking levels could be higher than observed. Old next step comments:

Proposed Start Date: 10/1 /2016

53	52135053-NF	734.4	500 - Water	Nonstocked	Unspecified	NonForestMgt	Water Level Management	500 - Water			Proposal
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**Habitat Cut:** Yes      **Site Condition:** None

Prescription French farm flooding will be drawn down periodically to maintain aquatic vegetation to benefit waterfowl and furbearing wildlife.  
Specs:

Next Step  
Treatments:

Acceptable Regen:

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

**Total Treatment Acreage Proposed: 923.4**

## Report 5 – Site Conditions

Gaylord Mgt. Unit

Compartment: 135

Tricia St. Pierre : Examiner

Year of Entry: 2017

### Dominant Site Conditions

	1C	2G	4A	5B	5C
Aspen		3			315
Bare/Sparsely Vegetated					
Bog					
Cedar	7				
Herbaceous Openland					
Low-Density Trees					
Lowland Aspen/Balsam Poplar		29	13		
Lowland Conifers	58	36		94	
Lowland Deciduous	31	50			
Lowland Mixed Forest		43			
Lowland Shrub		34			
Marsh		9			
Mixed Upland Deciduous					
Natural Mixed Pines					
Paper Birch					
Red Pine					
Sand, Soil					
Upland Mixed Forest	7				
Urban					
Water	0	24			
Total Forested Acres	103	229	13	94	315
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	1A: Federal/State/Local Law	261	3K: Rare or unique landforms	3A: Potential old growth / biodiversity	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment: 135

Year of Entry: 2017

2	Unavailable	1A: Federal/State/Local Law	350	3K: Rare or unique landforms	3A: Potential old growth / biodiversity	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	1A: Federal/State/Local Law	250	3K: Rare or unique landforms	3A: Potential old growth / biodiversity	Unspecified	Unspecified
<b>Comments:</b>							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	315	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Delay treatment on this stand until it is better developed. If aspen acreage is desired to even out age classes, see aspen stands to the northeast.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	52	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Available	5B: Maintain for regeneration purposes	94	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand might also be too wet to cut. The adjacent stand has been Rx'ed and sold, and is waiting to get cut. I would be interested to see what happens with regeneration before we enter this stand. I still want to consider strip clearcuts of varying widths and direction.							

## Report 5 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment: 135

Year of Entry: 2017

8	Unavailable	1C: Other dept or div proc/practices	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	1C: Other dept or div proc/practices	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
49	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	142	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> These areas are too wet for harvesting activity and lack marketable wood. Most stand boundaries (and therefore site condition boundaries) were a result of the 1970s block cutting where producers could not push any further into these sites because of the conditions.							
52	Unavailable	1C: Other dept or div proc/practices	65	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
62	Available	4A: No Markets Available for these Forest Products	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 6 – 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 7 – 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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
HCVA	Critical Dunes	Critical dune areas are established via the public legislative process, and governed by Part 353, Sand Dune Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). The current distribution of designated critical dunes is established by the DEQ 1989 Atlas of Critical Dune Areas.
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.



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6139 - Mixed Lowland Forest	Poletimber Well	260.6	75	141-170	<p>Log white spruce, lots of pole black spruce. Occasional red oak on upper ground, especially in the north and east. There are a few pockets in the north east that are more similar to the mixed pine/oak dune and swale stand to the east. Hemlock occurs in dense pockets. Regenerating hemlock is very dense and clumpy, not spread evenly throughout the stand. Same for low white cedar/BAM/BA/Q. There are some fire scars on old stumps. QA includes a mix of bigtooth aspen, especially on higher ground towards the eastern boundaries of the stand.</p> <p>OPIC - FMD: This stand is part of the Dune / Swale complex of receding lake levels over the last 5000 years. The high beach ridges are mostly aspen/Oak/Red pine with balsam fir in the understory. The low areas are comprised of Hemlock/Cedar/Bam. Some of the lower areas are lowland brush and marsh types in the interdunal wetlands, having several species of concern. This stand was separated from the others because of it hemlock dominance in several areas. The stand is located in an area protected by the Sand Dune Protection and Management program, which prevents any removal of vegetation, among other restrictions. The legal act pertaining to this protected area is Part 353, Sand Dune Protection and Management, of the Natural resources and enviromental Protection act, 1994 PA 451, as amended.</p>
2	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	323.4	90	111-140	<p>Stand had slight variations between the north and south halves. The south half has a little higher stocking in the understory with a slightly greater diversity. In the south, there are pockets of dead black ash; also white cedar, quaking aspen (deteriorating) in swales. Pockets of bigtooth aspen on dune with white pine, red maple, paper birch. The northern half of the stand has more cedar, spruce, white pine, and black ash in the swales and greater occurrence of blow-down. Ridges (in the extreme north) are dominated by a few oak, mostly pine and bigtooth aspen. There are a few swales of sparsely vegetated, NF openings throughout this complex. Some of which have small channels running through them.</p> <p>Corrected OIPC: This stand is part of the Dune / Swale complex of receding lake levels over the last 5000 years...Some of the lower areas are lowland brush and marsh types in the interdunal wetlands, having several species of concern. This stand was separated from the others because of it's Cedar dominance in several areas. The stand is located in an area protected by the Sand Dune Protection and Management program, which prevents any removal of vegetation, among other restrictions. The legal act pertaining to this protected area is Part 353, Sand Dune Protection and Management, of the Natural resources and enviromental Protection act, 1994 PA 451, as amended.</p>

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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4310 - Pine, Oak Mix	Sawtimber Well	205.0	129	111-140	<p>Topography of this stand is highly variable; there are multiple user groups that use this area. Campground, NCT, fishing, ATV/ORV/Snowmobile. There is some dieback in a few oaks and they should be monitored for oak wilt. Fire scars on occasional old stump with lots of multi-stemmed, lesser (but not necessarily poor) quality oak, birch, and red maple. White pine regeneration is fairly consistent throughout stand. Occasional alder, hazel, ninebark in lower depressions near shoreline. Unique transition along west edge into lower ground: larger diameter timber, balsam fir subcanopy with an occasional spruce; log aspen, birch, maple, pine.</p> <p>OPIC - FMD: This stand is part of the Critical Dune area and borders French Farm Lake. This stand is comprised of upland wooded barrier dunes with slight to steep slopes. Stand has mostly Red Oak, Red Pine, and White Pine, with a few scattered pole sized BT aspen. The North Country Pathway leads through the stand and is used frequently. The area also receives heavy use by campers, and ORV's. The stand is located in an area protected by the Sand Dune Protection and Management program, which prevents any removal of vegetation, among other restrictions. The legal act pertaining to this protected area is Part 353, Sand Dune Protection and Management, of the Natural resources and environmental Protection act, 1994 PA 451, as amended.</p>
4	4319 - Mixed Upland Forest	Poletimber Poor	7.2	40	1-50	<p>There are a few scattered XL white pine. This is a highly variable stand with mixed ages, densities, and species. See OI Comments: OPIC - FMD: Open U type with scattered pin cherry and white spruce. No treatment. Preserve stand, no activity or treatment of any kind ...See locked comment.</p>
5	4134 - Aspen, Spruce/Fir	Sapling Well	11.8	40	Immature	<p>Occasional white pine along edge of utility line. Extremely dense balsam fir. Stand begins to thin and increase in DBH to the west and south; very gradual increase in diameter as you go south except for a pocket of lower stocking, larger diameter in southeast. Occasional 8" white spruce. BTA is primarily along east edge. OPIC - FMD: Regenerating aspen, white spruce and BF. Some B. Ash and RM regen also present in the stand. No Treatment D.H. 03/28/2005</p>
6	4134 - Aspen, Spruce/Fir	Poletimber Well	2.2	40	51-80	<p>Edge weeds creeping in from utility line edges. Lesser quality stand overall. OPIC - FMD: Stand located between utility ROWs. Regenerating aspen, white spruce and BF. Some B. Ash and RM regen also present in the stand. No Treatment D.H. 03/28/2005</p>
7	4130 - Aspen	Poletimber Well	28.3	45	81-110	<p>Stand is regenerating well except for a couple of pockets of mortality and lower densities in the south-most portion of the stand; lower ground in as you progress south. Few pockets of bigtooth aspen. Couple pockets of log-sized timber. NCT bisects stand. Extreme NE edge along private is dominated by balsam fir. Trace amounts of red maple (pole) and paper birch (pole, sap) in the canopy; beech and red oak in the subcanopy along trail. Beech is present in trace amounts throughout stand. Trace amounts of ironwood, paper birch, basswood, red maple, red oak, black ash, dogwood along powerline edge. OPIC - FMD: Regen more advanced in this stand compared to stand 5 and 6. Slightly higher ground, a little older- converting to pole timber. No Treatment. D.H. 03/28/2005</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
9	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	43.3	70	81-110	<p>Low, wet stand. Live stream along/around the south boundary. Paper birch is falling out and red maple is lesser quality in spots. Quite a bit of CWD and tip-ups. Heavier to red maple in the northeast. There's a small rise in elevation towards the center of the stand that opens up to mixed conifer.</p> <p>OPIC - FMD: Swamp conifer stand with pole to saw sized aspen mixed in. Aspen is poor quality, immature in most places. Stand is low, poorly drained soils. Stand was excluded from harvest during french farm block sale in the 80's for being to wet, which is still the case.</p>
11	6120 - Lowland Cedar	Poletimber Well	8.1	80	111-140	<p>Occasional aspen creeping in from adjacent stands to the south/southwest, also along power line. Few pockets of blow-down, but not large-scale. OPIC - FMD: Cedar stand, pole sized near pipe line/power line. No Treatment. D.H. 03/28/2005</p>
12	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	31.5	90	81-110	<p>Overstory is falling apart, giving way to a more diverse understory. Possibly non-native phragmites along the shore, just north of the point. A lot of black ash along shoreline lost to EAB. North end of stand is heavier to white cedar. This is a log sized stand giving way to a much more diverse, variable pole/sap stand. OPIC - FMD: Old aspen overstory - Dense cedar understory- mixed type in some areas, more towards a Q type. No way to harvest overstory with out destroying cedar understory. Let stand naturally convert to Cedar type. No Treatment. D.H. 03/28/2005</p>
13	6112 - Lowland Aspen	Poletimber Well	94.7	42	51-80	<p>Occasional BAM in the SW, occasional white spruce in the canopy. QA dominating low spots; some very dense balsam fir regeneration. Edges of the stand are lower in the south, west, and north. Some buffalo berry on the edge of the utility lines; occasional flowering dogwood. Opening in the southeast has red oak, pin cherry, balsam fir, red pine, white pine, knapweed, paper birch, juniper, white ash (with EAB), and one white cedar.</p>
14	4130 - Aspen	Poletimber Well	115.5	42	51-80	<p>Variable basal area, 20-90. Occasional advancement to logs throughout stand, typically along skid trails or in lesser stocked areas. Couple inclusions of hardwood in the north and east. Southern edge, especially adjacent to private, has quite a bit of larger timber; some log spruce, pole/log fir, etc. Slight transition on south edge with XL/Log White Pine and White spruce adjacent to clearcut to south.</p> <p>Slow(er) growing, dense conifer understory throughout most of the stand. Occasional elm, log aspen, scattered. There are occasional clumps of sugar maple, bigtooth aspen, paper birch. OPIC - FMD: Aspen regen from FF block tsale, some areas have come back heavy to white birch. Doing well. No Treatment. D.H. 03/28/2005</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	6118 - Lowland Deciduous with Cedar	Poletimber Well	29.1	45	81-110	<p>Deer present but little herbivory on cedar. Pole sized trees dominate edges with pockets of 3" dbh. Occasional black ash - saplings annihilated (deer browse). Old stumps from '70s cut. Stand age does not reflect cutting records which suggests that this stand took longer to regenerate, likely because of the high water table. There are a couple internal pockets of water, cattails, and phragmites surrounded mostly by balsam fir. There is one central, small pocket of white pine and black spruce. A little larger diameters (3-6") in the north, not quite as dense.</p> <p>NOTE: the cut record indicates that this stand is 40+ years old, but core samples count out to mid-late 20s, which suggests that on this and similar sites, regeneration could take upwards of 20 years to regenerate and/or reach breast height. OPIC - FMD: Stand was harvested with FF Block in early 70's. Wet areas were left and not harvested which are scattered around in this stand. Stand is now lowland popple with scattered pockets of older Q type inclusions. No Treatment. D.H. 03/28/2005</p>
16	6111 - Lowland Balsam Poplar	Poletimber Well	16.6	46	81-110	<p>Unharvested areas upwards of 80 years old. Occasional red maple, scattered elm. 12" BA = 84 YO, 8" BA = 61 YO, 6" BA = 45 YO. EAB present, not afflicting most ash (yet). Heavy BAM in the south transitioning to predominately black ash and paper birch in the north. More log black ash in the north too. A few scattered sap sized bigtooth aspen. OPIC - FMD: Stand was harvested with FF Block in early 70's. Wet areas were left and not harvested which are scattered around in this stand. Stand is now lowland popple with scattered pockets of older Q type inclusions. No Treatment. D.H. 03/28/2005</p>
17	6139 - Mixed Lowland Forest	Poletimber Poor	3.4	30	Immature	A little bit of open water in the middle of the stand.
18	61119 - Lowland Aspen/Balsam Poplar (OI)	Poletimber Poor	12.9	61	1-50	<p>Could not locate the stand data sheet for this stand, but it was visited. If I recall correctly, it is a mix of lowland deciduous and cedar creeping in, and quite a lot of alder closer to the shoreline. Also pockets of blow down and some streams. OPIC - FMD: Lowland Aspen, predominantly BAM and quaking, poor quality. A few sawlogs, mostly pole timber and sapling sized trees. Noted a fair amount of elm poletimber as well- did not show up in plots. Was excluded from harvest in 1970's. Stand is wet year around. Beaver activity noted. No treatment. D.H. 03/29/2005</p>
19	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	26.2	35	51-80	<p>Central shrub thicket with low density trees. Basal area ranges from 30-80 (occasionally upward of 100) just inside of stand boundaries, along perimeter, especially in the south and southeast. Occasional dead ash and dead elm on the south edge. Also some white pine, black ash, red maple, white cedar logs in south. Just southeast of the center is a pocket of sap/pole black ash, 4" ave dbh, with a white cedar understory and occasional balsam fir. Sporadic log sized quaking aspen, white pine encroaching central shrub thicket. OPIC - FMD: Swamp conifer with scattered old aspen, poor quality, not worth harvesting considering impacts on residual stand. Many areas heavy to cedar. Pocket of marsh in middle of stand. No Treatment. D.H. 03/28/2005</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	42110 - Planted Red Pine	Sawtimber Well	4.0	53	111-140	<p>Thinned in 2008.</p> <p>Red maple, balsam fir, choke cherry, red pine regen along utility line with some ground juniper.</p> <p>Recently thinned. 30% crowns. Good quality pine, but not great - appears that the initial 3rd row thin was too soon - residual stock is limby. Current BA swings come out to 112 BA, ranging from 90-130. One red maple, log, in canopy in the south (multi-stemmed).</p> <p>OPIC - FMD: RP plantation beginning to produce numerous saw sized trees. Stand was thinned last YOE, every third row taken out. Stand is ready for marked thinning this YOE, reduce BA to 100. D.H. 03/28/2005</p>
21	4130 - Aspen	Poletimber Well	12.6	42	51-80	<p>Buffalo berry, white pine, balsam fir, and knapweed present along east utility line. One hemlock sap, 2", 10'. CWD from thinning aspen. White spruce, balsam fir, and white pine canopy along south end of east utility line.</p> <p>Lesser quality quaking aspen already deteriorating. Subcanopy mostly results from same aged hardwood and conifer having been suppressed by out-competing aspen.</p> <p>Consistent log sized bta throughout; pockets with higher BA (upwards of 100). Some log aspen (14+" dbh) left along snowmobile trail during harvest. Occasional red oak present. There is a low drainage that runs through the stand parallel but 30'(+/-) off of east utility line.</p> <p>OPIC - FMD: Aspen regen from FF block tsale, Doing well. No Treatment. D.H. 03/28/2005</p>
22	42110 - Planted Red Pine	Sawtimber Well	13.1	53	111-140	<p>Thinned in 2008.</p> <p>Stand is entering log status (still many poles). Stand had been thinned last YOE but BA is still 110-170. Crowns are 20%, good quality sawlogs. Growth rings show some response to thinning.</p> <p>Lowland tendencies throughout stand especially in the southwest with trace amounts of red maple, red pine, balsam fir, white cedar, white pine, and juniper coming up in the understory.</p> <p>Hole in southeast: red pine, white pine, balsam fir, paper birch, white spruce, knapweed, juniper, buffalo berry, bigtooth aspen (pocket), and hawthorn of variable size classes.</p> <p>OPIC - FMD: RP plantation beginning to produce numerous saw sized trees. Stand was thinned last YOE, every third row taken out. Stand is ready for marked thinning this YOE, reduce BA to 100. D.H. 03/28/2005</p>
23	42110 - Planted Red Pine	Sawtimber Well	2.8	53	111-140	<p>Thinned in 2008.</p> <p>25% crowns. Browse on white ash understory. Very dense regen in middle of stand with log basswood and white ash. Edges have some log sugar maple seeding into stand.</p> <p>OPIC - FMD: stand same as 22, split because of pipeline. RP plantation beginning to produce numerous saw sized trees.</p> <p>Stand was thinned last YOE, every third row taken out. Stand is ready for marked thinning this YOE, reduce BA to 100. D.H. 03/28/2005</p>
24	4199 - Other Mixed Upland Deciduous	Poletimber Medium	6.4	42	51-80	<p>Highly variable stand with undefinable boundaries to the surrounding aspen stand. West pocket is dominated by bta; northwest dominated by balsam fir and red maple; north central white ash, paper birch, balsam fir; northeast - paper birch fading into paper birch, bta, basswood as you go south; digressing into sapling-pole sized and less dense mixed timber in the east and southeast. Ironwood consistent throughout.</p> <p>OPIC - FMD: Scatterd upland brush with a few aspen creeping in from edges, still sapling sized. No Treatment. D.H. 03/28/2005</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6120 - Lowland Cedar	Sawtimber Poor	11.3	90	51-80	<p>Recently harvested with a lot of the parent stand remaining. Lots of blowdown and exposed root balls. Variable diameters, densities, and species composition in residual stand; pockets of mature/parent timber. The landing is non-stocked except for grasses, sedge, and thistle. Red maple, quaking aspen, black spruce, white pine are present in the understory. Dense pocket of aspen to the northeast of the landing, otherwise regeneration is mostly limited to pre-existing seedlings/saplings.</p> <p>OPIC - FMD: Treatment Update (Scheele 7/1/11): Stand harvested as part of French Lake Mix (52-128-09-01). Did not cut Cedar, Hemlock, or Spruce. Old Comments: Low lying aspen saw timber with swamp hws and mod-heavy conifer componet. Stand seasonably wet. Some areas have heavy cedar concentration. Final Harvest stand, leaving cedar and hemlock. Protect these species with specs. PVT line work necessary. Stand will have to be harvested in the winter or possibly during a dry summer/ fall. D.H. 03/28/2005 Per comp review on June 22, 2005: Try to encourage cedar regeneration and leave average 2 – 3 cedar logs per acre for hemlock nursery logs.</p>
27	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	36.2	80	51-80	<p>Some dead larch (check for larch sawfly or larch beetle in the spring). Higher densities of paper birch along edges. A few log sized birch snags throughout southern half of stand. Variable stand composition. Transition from South to North: larch -&gt; cedar -&gt; paper birch -&gt; cedar/larch/birch/white pine -&gt; cedar/larch -&gt; balsam fir, black spruce, cedar, larch. Pocket of cedar mortality (flooded) in the north. OPIC - FMD: Low swamp conifer along snowmobile trail / RR grade. No Treatment. D.H. 03/28/2005</p>
28	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	50.9	27	Immature	<p>Lowland sapling stand; slow growing. Pockets heavy to alder, other pockets with more mature timber (pb, rm (8-10"), qa). Some pockets dominated by larch. Possibly (likely?) cut at the same time as the aspen block cuts in the '70s, but regeneration has been slow to establish and grow. Few paper birch snags, 12".</p>
29	4130 - Aspen	Poletimber Well	152.9	42	51-80	<p>Low pockets throughout stand, especially on edges. West edge of stand drops down to low Q-types, lowland associated species. Pockets of log aspen. The west-central portion of the stand is hummocky. Occasional willow in depressions. Lowlands dominated by QA, uplands by BTA. Much smaller diameters in lower pockets. P ocket of paper birch, white cedar, sugar maple, red oak, bigtooth aspen, red pine, red maple next to red pine plantation (northeast). Variable species along northeast edge: inclusion of sugar maple, basswood, cherry, beech, red pine, balsam fir, white spruce, ironwood, paper birch, white cedar, white pine, red oak, juniper, hazel, and sumac.</p>
31	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.4	70	51-80	<p>This is a variable northern hardwood mix. From north to south the stand drops in elevation, dominated by maple/basswood/white pine/bta in the north and paper birch/white pine/red maple in the south. Pa per birch falling out in spots. Low pocket it middle of black and white ash, dominated by paper birch. Occasional red oak. South end of stand is dominated by paper birch with white pine, ash, sugar maple, red oak (especially along edge), and red maple. Trace amounts of red pine (pole/log) in north. O PIC - FMD: Northern hws on land under mineral lease. Pole sized, some areas heavy to paper birch. No Treatment. D.H. 03/28/2005</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	9.5	65	81-110	Could not locate the data for this stand, but it was a very small upland "ridge" surrounded by lowland, dominated by red maple, paper birch, balsam fir, cedar, and lowland aspen. Lot of coyote tracks running the ridge through this stand. High balsam understory.
33	4130 - Aspen	Sapling Medium	7.9	4	Immature	<p>Heavy browsing on ash. Stand is upland with lowland associated species, indicating that it has some low areas or is seasonally wet. Thistle, milkweed, goldenrod, native phragmites, mullein, elderberry, and winterberry are present. Lots of CWD from sale; couple snags left standing too. Regenerating but spotty. White cedar is in ditch along road and not present in the stand otherwise.</p> <p>OPIC - FMD: Treatment Update (Scheele 7/1/11); Stand harvested as part of French Lake Mix (52-128-09-01). Old Comments: Mature Q Aspen over thick BF understory. Seasonally damp. Final Harvest, winter cut or dry summer only. Good access on seasonal county rd. D.H. 03/28/2005</p>
35	42110 - Planted Red Pine	Sawtimber Well	7.4	53	111-140	<p>Thinned in 2008.</p> <p>Current BA = 120. (130-140 BA in the north thinning down with some canopy gaps to 100-110 in the south.)</p> <p>Sub-canopy is predominately along the western and southern edges with some various species seeding in along the gravel pit. Almost all sugar maple seedlings are in the southern portion of the stand in a fairly dense pocket. The western inner crescent has a dense and variable understory of red oak, balsam fir, quaking aspen, red maple, and choke cherry. There's a canopy gap in the southeast with pole and log sized balsam fir reaching into the canopy. Also came across trace amounts of white spruce and juniper in the south. Paper birch poles are along the southwest edge, mostly in the adjacent stand's boundaries. Red pine crowns are 20-15%. Good quality plantation. One log sugar maple in the canopy in the south.</p> <p>OPIC - FMD: RP plantation beginning to produce numerous saw sized trees. Stand was thinned last YO, every third row taken out. Stand is ready for marked thinning this YO, reduce BA to 100. D.H. 03/28/2005</p>
36	6120 - Lowland Cedar	Sawtimber Well	7.3	75	81-110	<p>Very wet stand. EAB damage. Quaking aspen is dead standing. Rare plants (esp. fens) likely given habitat.</p> <p>Stand Boundaries changed, but old stand had these comments attached: OPIC - FMD: Diverse stand. Some areas heavy to WP-Tamarack 60-70 years old, other areas heavy to aspen/birch/Bam 20-30 yrs old with cedar inclusions scattered in stand. Majority of stand is mixed conifers with lowland aspen component. No treatment. D.H. 03/29/2005</p>
37	6124 - Lowland Spruce-Fir	Sawtimber Well	93.6	85	81-110	<p>Stand transitions from lowland spruce/fir/cedar in the south to mixed lowland/upland white pine (with trace amounts of red pine)/fir/spruce/mixed hwd/aspen in the northeast. Smaller diameter spruce in the south (mostly pole timber), but overall log-sized throughout stand. Few pockets in the north and center of stand with dense (2") cedar. Old logging road is being filled in with balsam fir and larch, also mixed aspen/birch in spots.</p> <p>Couple instances of blow-down. Small red pine pocket in the north. Diversion ditch is still diverting.</p> <p>Stand could be too wet for treatment. Check out later in the year.</p> <p>OPIC - FMD: White spruce poletimber with scattered aspen, BF, and cedar Poles mixed in. Low and wet. Ditch runs through stand- probably to reduce water table for harvesting in early 1900's. No Treatment. D.H. 03/28/2005</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	9.1	115	81-110	<p>Decadent white pine stand with mature paper birch, bigtooth aspen, and quaking aspen. Log-sized paper birch is beginning to decline. Mostly spruce in southeast corner (south of road). North half of stand is dominated by pine, south half has more spruce. Pin Cherry, red oak, and red pine are mostly along the eastern perimeter.</p> <p>OPIC - FMD: Mostly white spruce with scattered BF and quaking aspen pole timber. Stand is low and wet. No Treatment. Access trespass w pvt property sign on access rd. Need to follow up with trespass tracking system. D.H. 03/28/2005</p>
40	6111 - Lowland Balsam Poplar	Poletimber Well	61.7	42	51-80	<p>Southwestern-most acreage is older, more diverse; appears to have been left uncut in the '70s block cuts. Southeastern tip is open grass.</p> <p>There's a band in the north-central portion of the stand where vegetation is less dense, water is evident - inclusion of paper birch saps in gaps; hummocks, alder, willow, some larch regenerating; less aspen, more fir; less dogwood but more alder. More quaking aspen in the north, a couple cedar too. Two small pockets dominated by spruce and fir.</p> <p>OPIC - FMD: Quaking aspen growing on AuGrey sands. Growing slow, probably took a few years to establish. White spruce scattered around. No Treatment. D.H. 03/28/2005</p>
41	6112 - Lowland Aspen	Sawtimber Well	25.7	90	141-170	<p>Older, larger diameters in cedar and aspen in south portion of stand. Few pockets of blow down. North triangle is dominated by aspen/mixed deciduous. Sold to Precision for CC, expires 12/1/17, Linsley Road Aspen.</p> <p>OPIC - FMD: Swamp conifer stand with lowland poplar and swamp HWD componet. Bam is declining heavily Stand is low and wet most of year. Final harvest during winter or dry season. Protect cedar in specs, . D.H. 03/28/2005 Per comp review on June 22, 2005: Try to encourage cedar regeneration and leave average 2 to 3 cedar logs per acre for hemlock nursery logs.</p>
42	4130 - Aspen	Poletimber Well	55.3	42	81-110	<p>Scattered hardwood (basswood, sugar maple, red maple, beech) along snowmobile trail. Inclusion of immature hardwood/mixed aspen pocket to the east of red pine (stand 20), and some mature hardwood in ditch between RP stands 20 and 23. Black knot on occasional cherry saplings; few red pine seedlings adjacent to red pine plantations. A couple pockets with lowland characteristics, especially on the west edge near the utility line. Red oak poles in southeast; one yellow birch in low area near utility line.</p> <p>Some pockets of log-sized aspen, especially in NW.</p> <p>Conifer component includes white pine, balsam fir, white spruce, and hemlock in the canopy (WP and Hemlock in trace amounts); heavier conifer component in north-central along snowmobile trail.</p> <p>Opening in southeast: red oak, pin cherry, balsam fir, red pine, white pine, knapweed, paper birch, juniper, white ash (with EAB), and one white cedar.</p> <p>OPIC - FMD: Aspen regen from FF block tsale, some areas have come back heavy to white birch. Doing well. No Treatment. D.H. 03/28/2005</p>
43	4199 - Other Mixed Upland Deciduous	Sapling Well	1.5	35	51-80	<p>OPIC - FMD: Aspen regen from FF block tsale, Doing well. No Treatment. D.H. 03/28/2005</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	6112 - Lowland Aspen	Poletimber Well	55.1	45	81-110	<p>Highly variable stand, especially on the edges. Uneven-aged appearance in areas with trees that weren't harvested in the '70s.</p> <p>OPIC - FMD: Stand was harvested with FF Block in early 70's. Wet areas were left and not harvested which are scattered around in this stand. Stand is now lowland popple with scattered pockets of older Q type inclusions. No Treatment. D.H. 03/28/2005</p>
45	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.2	100	81-110	<p>Log sized aspen and some log sized paper birch are beginning to deteriorate; birch is regenerating in spots. The northeast corner of this stand is low and wet The peninsula to the south is dominated by pine, oak, and aspen, more similar to the pine/oak/aspen complex on the dunes to the west of the lake. 70% canopy closure in the north, closer to 90% in the south.</p> <p>OPIC - FMD: This stand is part of the Critical Dune area and borders French Farm Lake. This stand is comprised of upland wooded barrier dunes with slight to steep slopes. Stand has mostly Red Oak, Red Pine, and White Pine, with a few scattered pole sized BT aspen. The North Country Pathway leads through the stand and is used frequently. The area also recieves heavy use by campers, and ORV's. The stand is located in an area protected by the Sand Dune Protection and Management program, which prevents any removal of vegetation, among other restrictions. The legal act pertaining to this protected area is Part 353, Sand Dune Protection and Management, of the Natural resources and enviromental Protection act, 1994 PA 451, as amended.</p>
46	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	46.5	75	1-50	<p>OPIC - FMD: Lowland Aspen, predominantly BAM and quaking, poor quality. A few sawlogs, mostly pole timber and sapling sized trees. Noted a fair amount of elm poletimber as well- did not show up in plots. Was excluded from harvest in 1970's. Stand is wet year around. Beaver activity noted. No treatment. D.H. 03/29/2005 Higher density of cedar through center of stand, especially in northeast (transitioning into cedar swamp). Blow-down and tip-ups common throughout stand, lots of CWD, a little bit of layering in the cedar. Aspen and black ash dominate a couple 1+ ac pockets. Few XL black ash and BAM.</p>
47	4130 - Aspen	Poletimber Well	3.8	38	81-110	<p>NCT runs through stand. Cut with aspen throughout compartment in the 70s/80s.</p> <p>OPIC - FMD: This stand is part of the Critical Dune area and borders French Farm Lake. The stand is located in an area protected by the Sand Dune Protection and Management program, which prevents any removal of vegetation, among other restrictions. The legal act pertaining to this protected area is Part 353, Sand Dune Protection and Management, of the Natural resources and enviromental Protection act, 1994 PA 451, as amended.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4130 - Aspen	Sapling Medium	24.1	5	Immature	<p>Eagle nest on north edge exposed to the south with semblance of a buffer to the north. A couple white pine (sap). Stand is a mix of upland and lowland with the associated species. Browse on black ash, maple. Few low pockets too wet for equipment to harvest add structural diversity. Lots of CWD including a couple drags forgotten by loggers. Stand does not appear to be regenerating as well as it could be. Recommend a regen survey in a few years. NOTE REGARDING REGENERATION: As compared to the E6 (stand 15) to the southeast, the E6 took 20+ years to regenerate/reach breast height, so perhaps regeneration surveys should be prolonged.</p> <p>OPIC - FMD: Treatment Update (Scheele 7/1/11): Stand harvested as part of French Lake Mix (52-128-09-01). Old Comments: Variable stand going from A9 to P9 to E4. Higher ground has aspen sawtimber that is overmature. Lower areas have B. ash saplings with scattered large aspen. Stand is low and wet in some areas and most of the way around it. Final Harvest. Access is going to be tough, probably want to freeze a rd in. Existing logging rd gets fairly close to the stand from FF Block Tsale. May have to line out areas of E4. D.H. 03/28/2005 Per comp review on June 22, 2005: Mark 4 - 8 trees per acre of same proportional mix of stand for coarse wood debris.</p>
49	6115 - Lowland Ash	Poletimber Well	21.4	50	1-50	<p>~1 ac inclusion of a littoral zone/tributary to the far west, vegetated by lowland plants (alder, willow, cattail). Few quaking aspen and bam follow the stream back into the surrounding stands.</p> <p>Occasional cedar; few pockets of dense balsam fir. Occasional red maple and paper birch (on south edge, primarily). There are a few beech saplings on the southern edge.</p> <p>EAB present.</p> <p>OPIC - FMD: Swamp hws- mostly B. Ash- stand borders FF Lake. Low and wet year around. No Treatment. D.H. 03/28/2005</p>
50	6120 - Lowland Cedar	Sawtimber Well	269.3	118	141-170	<p>Predominately log-sized cedar in the south slowly transitioning to densely stocked pole white cedar in the north. Scattered pockets of aspen in the canopy (falling out); occasional paper birch and red maple. Balsam fir and cedar regen is spotty with better success on the edges of and within pockets of blowdown.</p> <p>Layering seems to be more effective for cedar regeneration in this stand. South edge along stand 15 is log and xl cedar with lots of blow down and balsam fir regeneration. Trace amounts of larch, typically near the edge along the utility line. Higher variability in diameters, species composition, and canopy closure on edges: paper birch, bam, quaking aspen, white cedar, larch, balsam fir, black ash, alder, willow, and red maple present. Few log black spruce; some mistletoe in north spruce.</p> <p>OPIC - FMD: Dense stand of cedar poles. Bam mixed in, a few WB. No Treatment. D.H. 03/28/2005</p>
51	6118 - Lowland Deciduous with Cedar	Sawtimber Well	72.1	85	111-140	<p>White pine along se edge near utility line. Line of 4" dbh paper birch, presumably an old road/very disturbed soil. Few dead larch, mostly in the north east. Pockets of white cedar, 16" paper birch, BAM; some XL QA scattered. Occasional BAM, larch, XL QA in hardwood pocket dominated by red maple. Cedar regenerating within and on the edge of blow-down.</p> <p>Little stream develops and meanders to the lake in the southwest.</p> <p>FORMER COMMENTS (stand boundaries altered): OPIC - FMD: Diverse stand. Some areas heavy to WP-Tamarack 60-70 years old, other areas heavy to aspen/birch/Bam 20-30 yrs old with cedar inclusions scattered in stand. Majority of stand is mixed conifers with lowland aspen component. No treatment. D.H. 03/29/2005</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	57.9	119	111-140	Plents of CWD. Log white cedar along exterior, few log balsam fir. Little regen under dense cedar, balsam fir seeding in where there are gaps. Smaller diameter towards center with more balsam fir regen, also some larch, black spruce - very stunted white cedar. Few supercanopy black spruce and white pine scattered. One elm found. Pockets of tip-ups/blow-down. Northwest has occasional white cedar regenerating, overstory is dominated by quaking aspen and paper birch, log. Some scattered BAM. OPIC - FMD: Dense stand of cedar poles. Bam mixed in, a few WB. No Treatment. D.H. 03/28/2005
59	6115 - Lowland Ash	Poletimber Medium	28.7	55	1-50	Variable densities and diameters throughout; log stand in west-center with a concentration of XL/L QA, balsam fir, and occasional spruce. Northwest is dominated by smaller pole/sap black ash. East half has a few drainages throughout. OPIC - FMD: Swamp hwds, predominantly B ASH. A few sawlogs, mostly pole timber and sapling sized trees. Noted a fair amount of elm poletimber as well- did not show up in plots. Was excluded from harvest in 1970's. Stand is wet year around. Beaver activity noted. No treatment. D.H. 03/29/2005
60	4130 - Aspen	Poletimber Well	318.1	48	Unspecified	Some dead black ash (EAB). Occasional bigtooth aspen pockets. Lower pockets include some BAM and black ash. Larger diameter trees along roads or in areas with less density. Paper birch has greater densities in the eastern portion of the stand and in pockets along the roads and skid trails, but fades out as you progress west. Seldom 8-10" dbh aspen. Trace amounts of spruce, tamarack, and cedar. OPIC - FMD: Aspen regen from FF Block Tsale, this area was harvested in late 70's. Regen is now very close to reaching pole sized, but plots showed less than 20 BA has reached pole timber standards. Some lower areas have come back to lowland poplar with BAM, quaking, and WB. A few pockets of tag alder show on the photos. Roads are still in fairly good condition, a few wet areas. Abundant snoeshoe hare sign, as well as coyote tracks. Lots of grouse in stand, especially where conifer componet is well represented. No treatment. D.H. 03/29/2005
62	6112 - Lowland Aspen	Poletimber Poor	13.3	85	51-80	Upper canopy 40-50% closed; lower canopy 100% closed. Heavy browse on dogwood. XL QA 18-20" dbh. Variable diameters and densities throughout stand, variable composition from north (dominated by fir) to south (dominated by aspen). A few red maple and paper birch in the far north. OLD COMMENTS: OPIC - FMD: Lowland poplar with quaking and Bam, BF in the understory. Not harvested with FF block in late 70's, either because no line was established or area was to wet to harvest and get adequate regen back. Stand appears to have had a timber trespass done recently, need to find corners and verify trespass. Bam and quaking aspen are of poor quality and BF understory is too thick to ensure adequate regeneration of the stand to aspen. Leave stand alone and let overstory become dead and down. The large adjacent stand (A3) has little CWD on the forest floor. No treatment. D.H. 03/29/2005
63	42250 - Pine, Oak	Sawtimber Poor	1.8	70	1-50	Steep slopes to either side of this dune. Exposed and abused sand - trail through the middle. Variable heights, densities, diameters, and clumpiness throughout the stand. OPIC - FMD: Open sand dune with no forested cover. Receiving ORV damage yearly. Part of protected critical dune area. D.H. 03/29/2005



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	4131 - Aspen, Oak	Sawtimber Well	15.8	80	111-140	Trace amounts of red pine (along shoreline) and red maple in the canopy. Some beaver damage. Few XL red oak and bigtooth aspen. More log-sized oak and larger distribution of oak in the east half of the stand. Basal area is variable, from 80-150. OPIC - FMD: This stand is part of the Critical Dune area and borders French Farm Lake. The stand is located in an area protected by the Sand Dune Protection and Management program, which prevents any removal of vegetation, among other restrictions. The legal act pertaining to this protected area is Part 353, Sand Dune Protection and Management, of the Natural resources and environmental Protection act, 1994 PA 451, as amended.
66	6120 - Lowland Cedar	Poletimber Well	10.3	80	141-170	There are some pockets dominated by sawlogs throughout this stand. The south and north extremes have the inclusion of red maple (south), bam (south), paper birch (north), and quaking aspen (north), otherwise the stand is consistently cedar and spruce, and the occasional larch. Understory is exclusively in the southern half of the stand and on edges of gaps. Live stream runs through the south end of the stand. Pocket of cedar mortality (flooded) in the north. Illegal permanent blind + cleared shooting lane. OPIC - FMD: Low swamp conifer along snowmobile trail / RR grade. No Treatment. D.H. 03/28/2005
67	6120 - Lowland Cedar	Sapling Well	24.9	50	81-110	Lowland cedar thicket. West edge is very wet with much smaller diameter cedar and spruce. Stand diameters, height, and density increase as you go from west to east. North tip is a bit higher ground with some trace amounts of pine/hwd. O PIC - FMD: This stand is part of the Dune / Swale complex of receding lake levels over the last 5000 years. The stand is located in an area protected by the Sand Dune Protection and Management program, which prevents any removal of vegetation, among other restrictions. The legal act pertaining to this protected area is Part 353, Sand Dune Protection and Management, of the Natural resources and environmental Protection act, 1994 PA 451, as amended.
68	6116 - Lowland Birch	Sapling Medium	1.9	12	Immature	Stand is a result of former road clearing/maintenance. Alder is 20% of the canopy but could not be represented in MiFI. As the stand grows, the alder will be suppressed to the understory. A couple hemlock on the east edge, about half way through the stand. Few white cedar reach canopy. BTA includes a mix of BTA and QA. Canopy closure is 100% if you exclude the opening above the road and down near the dam. OPIC - FMD: The stand is located in an area protected by the Sand Dune Protection and Management program, which prevents any removal of vegetation, among other restrictions. The legal act pertaining to this protected area is Part 353, Sand Dune Protection and Management, of the Natural resources and environmental Protection act, 1994 PA 451, as amended.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	16.4	85	111-140	<p>Variable topography; little bit of a ridgeline running N-S through stand with a couple "peaks". Came across one beech, pole, with scale; a few beech seedlings scattered. More red pine present in the south. Very small amount of cedar around the east edge, transitioning into a lowland cedar swamp.</p> <p>OPIC - FMD: This stand is part of the Critical Dune area and borders French Farm Lake. This stand is comprised of upland wooded barrier dunes with slight to steep slopes. Stand has mostly Red Oak, Red Pine, and White Pine, with a few scattered pole sized BT aspen. The North Country Pathway leads through the stand and is used frequently. The area also receives heavy use by campers, and ORV's. The stand is located in an area protected by the Sand Dune Protection and Management program, which prevents any removal of vegetation, among other restrictions. The legal act pertaining to this protected area is Part 353, Sand Dune Protection and Management, of the Natural resources and environmental Protection act, 1994 PA 451, as amended.</p>
70	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	7.3	45	1-50	<p>Trespass along north and west edge - road being used as access to private property.</p> <p>Very dense shrub thicket interior with deteriorating overstory. Heavier to black ash in the center of the stand; quaking aspen perimeter with scattered spruce, occasional pine. West and north edges are particularly varied composition. Tag alder swamp in southeast.</p>
72	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	28.9	45	81-110	<p>MiFi would not let me accurately describe the canopy cover of this stand. There are some super-canopy spruce and that are not accounted for in the species description.</p> <p>Spotty pockets of dense conifer, especially along trail. Bands of conifer throughout; some super-canopy white pine, white spruce, BTA. OI comments are relevant:</p> <p>OPIC - FMD: Stand was harvested with FF Block in early 70's. Wet areas were left and not harvested which are scattered around in this stand. Stand is now lowland popple with scattered pockets of older Q type inclusions. No Treatment. D.H. 03/28/2005</p>
73	6112 - Lowland Aspen	Poletimber Well	35.6	45	81-110	<p>Heavy browsing on ash. There are a few very low pockets with standing water, but stand is overwhelmingly lowland with a few drier pockets. Some scattered white pine and spruce in the super-canopy. Occasional white pine, pole, regenerating throughout stand. A couple pockets of BAM and QA - qa mostly on edge. Scattered red/pin oak, &lt;1%.</p> <p>OPIC - FMD: Stand was harvested with FF Block in early 70's. Wet areas were left and not harvested which are scattered around in this stand. Stand is now lowland popple with scattered pockets of older Q type inclusions. No Treatment. D.H. 03/28/2005</p>
107	4134 - Aspen, Spruce/Fir	Poletimber Well	3.5	33	51-80	<p>Canopy consists of balsam fir, aspen, paper birch, spruce. Super canopy consists of sugar maple, white ash, occasional oak along road, log paper birch, occasional spruce/fir. Little drainage with cedar, lowland shrubs behind utility station. OPIC - FMD: UTILITY STATION for near by Pipe Line.</p>

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Gaylord Mgt. Unit

Report 8 – Forested Stands

Compartment: 135  
Year of Entry: 2017



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
131	4199 - Other Mixed Upland Deciduous	Poletimber Well	1.4	68	51-80	Browse on understory. Some log-sized paper birch are falling out; few snags. Concentrated pocket along east pvt line of bigtooth aspen with occasional pole sized aspen throughout most of the stand. Lesser quality hardwood stand; lots of multi-stemmed trees. South end of stand dips down but does not become wet. OPIC - FMD: Northern hwds on land under mineral lease. Pole sized, some areas heavy to paper birch. Split from 31 because of utility cooridor.No Treatment. D.H. 03/28/2005



Stand	Cover Type	Acres	Managed Site	General Comments:
8	6223 - Inundated Shrub Swamp	9.0	No	Dead cedar, likely flooded by utility line development, in south third of stand - some cedar (sap and pole) regenerating under. Channels of water throughout. OPIC - FMD: Lowland brush, mostly Tag alder. No Treatment. D.H. 03/28/2005
10	6229 - Mixed lowland shrub	26.2	No	Scattered dead cedar throughout much of the stand's perimeter. The interior is wet, mostly alder with mixed shrubs. OPIC - FMD: Split from stand 8 because of utility corridor. Lowland brush, mostly Tag alder. No Treatment. D.H. 03/28/2005
25	3303 - Mixed Low Density Trees	0.9	No	A couple dead sumac. Dump site - trespass from landowner to the south. Highly variable stand where vegetated. Some standing water (ice), but unable to determine amount or seasonal presence.
30	3301 - Low Density Deciduous Tree	5.7	No	Unmanaged low-density trees. Scotch pine seeding in from mature scotch pine planted on private to the north.
34	790 - Other Bare/Sparsely Vegetate	22.3	No	Active gravel pit. Water (ice) in pools around stand. Few clumps of trees remaining; a couple red oak, red and white pine, paper birch on east edge. Red oak, quaking aspen, white ash present in clumps. OPIC - FMD: Gravel pit under mineral lease-active and expanding. No Treatment. D.H. 03/28/2005
53	500 - Water	734.4	Yes	OPIC - FMD: French Farm Lake.
54	6225 - Bog	4.5	No	Could not determine presence of grasses, water, moss, etc. <1' due to snow conditions. A handful of white pine seedlings on north half of stand. Poor growing conditions, pine are stressed. OPIC - FMD: V type near FF lake, with in protected dune area.
55	62399 - Marsh (OI)	4.9	No	Live stream through stand with small channels, wet pockets throughout. OPIC - FMD: Marsh between Beach ridges in dune swale complex. Stand is within protected critical dune area. No Treatment. D.H. 03/28/2005
56	629 - Mixed non-forested wetland	3.0	No	Low and wet; few channels running throughout the stand. OPIC - FMD: Marsh between Beach ridges in dune swale complex. Stand is within protected critical dune area. No Treatment. D.H. 03/28/2005
57	510- Water (OI)	23.9	No	Edges likely flood seasonally. Saplings/pole timber present on the edges and are highly susceptible to mortality within flood zone. EAB in black ash. OPIC - FMD: French Farm Lake, southern portion with Dam located in SW corner.
58	629 - Mixed non-forested wetland	12.2	No	EAB: most of the standing ash is dead. Trace QA. Low-medium stocking of woody vegetation; too much snow to determine water level and prominence (estimated at medium). OPIC - FMD: Marsh between main body of water and southern pond of FF Lake. Surrounded by E type and water. No Treatment. D.H. 03/28/2005
61	6229 - Mixed lowland shrub	13.1	No	Dominated by alder, willow, BAM, and black ash. South edge is more forested by swamp hardwoods, but the rest is dominated by shrubs. EAB. OPIC - FMD: Swamp hwds- mostly B. Ash- stand borders FF Lake. Low and wet year around. No Treatment. D.H. 03/28/2005



Stand	Cover Type	Acres	Managed Site	General Comments:
64	710 - Sand, Soil	1.4	No	Scramble area/RDR. Stand is exposed sand with clumps of trees and shrubs. Trees are mostly sapling/pole, but there are a few logs scattered about. OPIC - FMD: Open sand dune with no forested cover. Receiving ORV damage yearly. Part of protected critical dune area. D.H. 03/29/2005
71	330 - Low-Density Trees	0.5	No	Too much snow to determine full inventory of species/grass/etc.
74	110 - Low Intensity Urban	0.6	No	UTILITY STATION for near by Pipe Line.
149	62399 - Marsh (OI)	8.6	No	High concentration of alder along the south and east edges, roughly 30% of the stand. Flowing water in north with a few rills also draining into the open water. OPIC - FMD: Marsh with beaver activity adjacent to FF Lake. Surrounded by Q type. No Treatment. D.H. 03/28/2005
150	6299 - Lowland Shrub (OI)	3.0	No	OPIC - FMD: Tag alder lowland surrounded by cedar and Q type. No treatment. D.H. 03/29/2005
400	31029 - Grass (OI)	0.5	No	OPIC - FMD: Utility ROW pipeline.
401	31029 - Grass (OI)	1.0	No	Few hardwood saps on edges - basswood, sugar maple, white ash. Mullein and queen ann's lace also present. Some pole sized aspen in clumps. Utility ROW. OPIC - FMD: Utility ROW pipeline.
402	6229 - Mixed lowland shrub	88.0	No	Mixed upland and lowland maintained utility line. Pocket of dense, sapling sized larch between stands 11 and 9. OPIC - FMD: Utility ROW pipeline/ powerline.