



# Compartment Review Presentation

## Gaylord Forest Management Unit

Compartment 52220

Entry Year 2018

Acreage: 1,905

County Mackinac

Management Area: Great Lakes Islands - NLP

**Revision Date:** 2016-05-12

**Stand Examiner:** Tricia St. Pierre

### Legal Description:

Bois Blanc Island, Sections 21, 22, 23, and 24.

### Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

### Soil and topography:

Bois Blanc Island is composed chiefly of limestone and dolomites sitting beneath shallow soils. The topography is generally flat with occasional and slight elevational changes, though these minor changes can have significant impact on hydrology and cover types. Soils are largely dominated by Guardlake fire sandy loam and Markey and Carbondale mucks, and to a lesser extent (but still significant) Shelter very cobbly loam, Esau extremely gravelly sandy loam, Alpena gravelly loam, and Beavertail muck. Minor components (less than 10% total) of substrate include Springlake loamy coarse sand, Battydoe fine sandy loam, Zela muck, Histosols and Aquents (ponded), Leafriver mucky peat, and Angelica muck. Kotar Habitat Types are most productive on the loamy soils, suggesting AFOAs on upland sites and PARVAa on the lower, wetter sites.

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

Bois Blanc itself is a relatively unspoiled, undeveloped island with few concentrated subdivisions and other larger blocks of State, The Nature Conservancy, and private ownership. This Compartment is met on the north by State ownership, and to the east and west by private (and some water). The south boundary is variable, sharing boundaries with water bodies, State ownership, and some private parcels. Development around the Island is minimal, and recreational pressures on this Compartment and others maintains at a steady level. Land use is largely recreational (ORV use, hiking, hunting, and camping) and the majority of the Island's residents are seasonal.

### Unique Natural Features:

There are many unique natural features in and surrounding this Compartment. Michigan Natural Features Inventory (MNFI) revealed known and potential occurrences of the following: Foster's Tern (*Sterna fosteri*), Hine's Emerald Dragonfly (*Somatochlora hineana*), Common Loon (*Gavia immer*), Osprey (*Pandion haliaetus*), Red-Shouldered Hawk (*Buteo lineatus*), Marsh Wren (*Cistothorus palustris*), American Bittern (*Botaurus lentiginosus*), Eastern Massassauga (*Sistrurus catenatus*), Fairy-Slipper (*Calypso bulbosa*), Douglas's Hawthorn (*Crataegus douglasii*), Bald Eagle (*Haliaeetus leucocephalus*), and Dwarf Lake Iris (*Iris lacustris*). Bois Blanc should be continuously monitored for new and known occurrences considering the uniqueness of the island, its natural communities, and the potential for new, interesting discoveries. A single Walnut tree was found during inventory.

### Archeological, Historical, and Cultural Features:

There are some significant historical features within this compartment. There are remnants of two log cabins, the foundation for a State fire tower, and other artifacts from historical events on the Island. There is also a dilapidated deer and rabbit enclosure from 1956 that, if maintained, could bear witness to significant herbivore impact studies.

### Special Management Designations or Considerations:

Beech Bark Disease (BBD), Emerald Ash Borer (EAB), and Dutch Elm Disease (DED) have plagued the landscape and will continue to do so until a solution is found. Much of the hardwood understory consists of beech in varying densities which is cause for concern over the future of these timber types. Spruce Budworm (SBW) is moving east from the west end of the UP and could also greatly impact Bois Blanc Island if it crosses over. Preferring balsam fir and spruce, it would be well fed on the Island and could also have devastating impacts, just like DED, EAB, and BBD. In addition, the presence and continuous threat of phragmites on the natural landscape is of great concern. Island residents have been good at identifying phragmites and working to get it treated in a timely manner, but persistent rhizomes, prolific seeds, and an abundance of suitable habitat is a significant threat to the natural ecosystem.

### Watershed and Fisheries Considerations:

Fisheries Concerns: This compartment contains Twin Lake Creek, as well as portions of Echo, Duncan, and Thompson

Lakes on Bois Blanc Island. The prescribed management actions are appropriate for the protection of these waterbodies.  
Note: These waterbodies do not appear on the MiFi basemap. The map should be updated to include these features.

### **Wildlife Habitat Considerations:**

High concentrations of rare species and unique access issues.

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

Lots 21-24, T39N R1W, Bois Blanc Island, Mackinac County

Surface sediments consist of lacustrine sand and gravel, sometimes thin to discontinuous. The glacial drift thickness is thin to discontinuous. The Devonian Bois Blanc Formation subcrops below the glacial drift. The Bois Blanc could be quarried for stone. Fire Tower gravel pit is located in Lot 23 (S&G Lease 149) and potential is possible in other areas. There is no known oil and gas potential in the area.

### **Vehicle Access:**

Vehicle access can be challenging within this compartment. Many of the old fire roads and trails are overgrown and maintained, if at all, only wide enough that an ORV can barely sneak through. There are quite a few odd trails that taper off that could be evidence of recreational use (like temporary hunting camps) or might have more of a historical tie to them. Central Drive provides reliable access to the east and north edges of the compartment, but interior access is rather limited.

### **Survey Needs:**

There are no essential survey needs at this time.

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

There are no dedicated recreational facilities within this Compartment, though there are two water access sites that are used regularly as a boat launch, camp sites, and parking for waterfowl hunting. Many of the trails that meander through this Compartment are used by ORVs and, in many instances, provide access to hunting blinds and camps.

### **Fire Protection:**

The majority of this compartment is comprised of lowland and hardwood types with very little fire danger. Dried grasses and dead ash and beech might serve as fuel enough to carry a fire, but there aren't many volatile cover types across this compartment or the island as a whole. Fire suppression could be difficult if a fire were to move towards or originate from the interior of this compartment, though there are reliable and accessible water sources should the need arise.

### **Additional Compartment Information:**

Permanent residents have expressed an interest in re-stocking the turkey population on the island. A recent stretch of harsh winters and predation (by coyotes and, possibly, wolves) has greatly diminished the population and locals are hoping to repopulate their beloved turkeys.

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

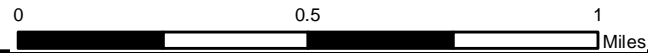
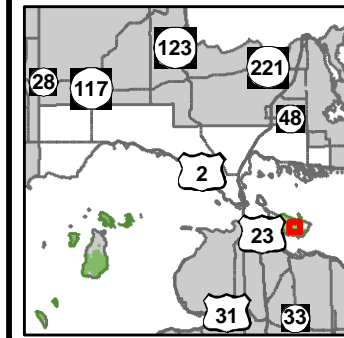
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

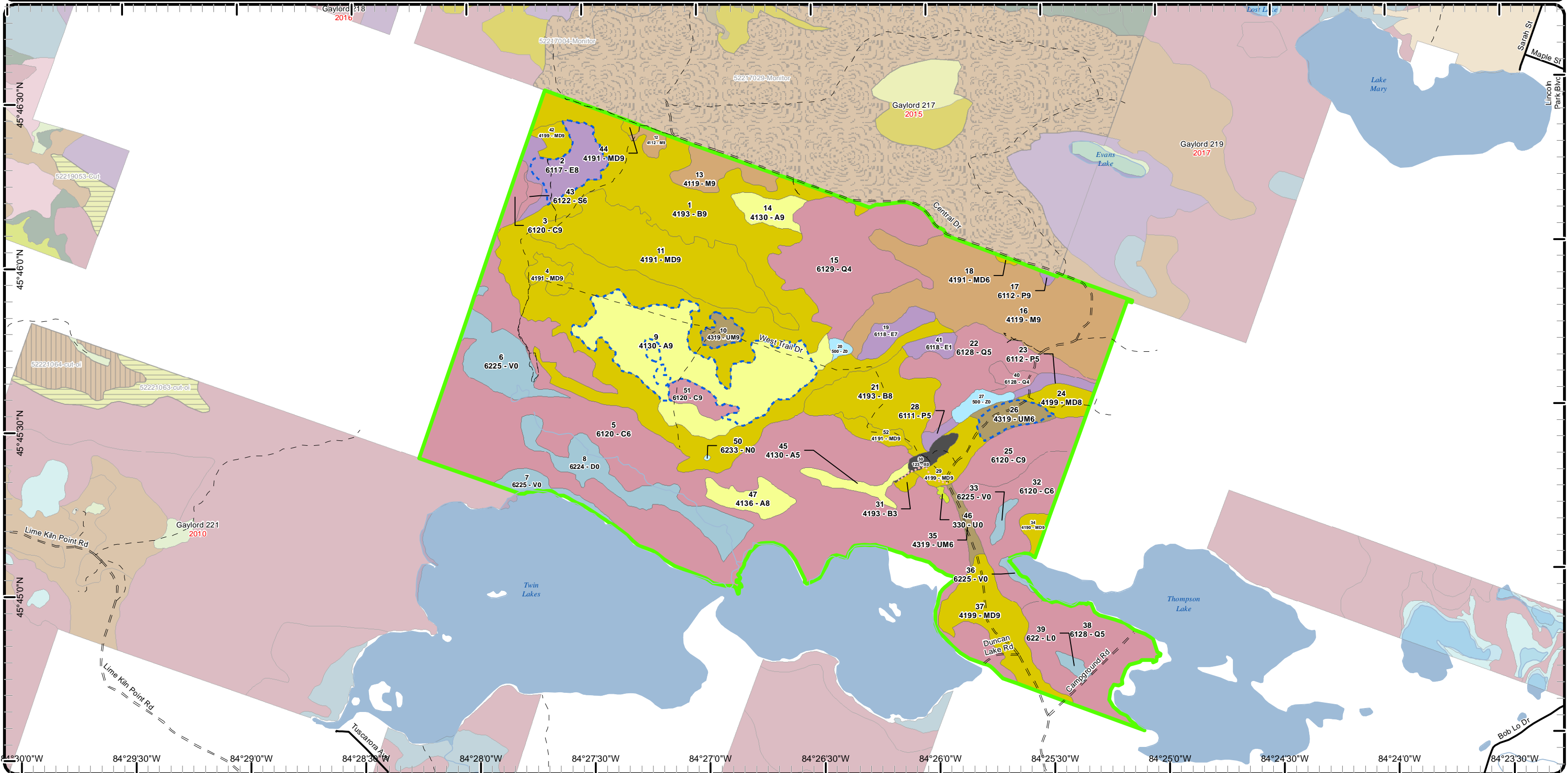
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

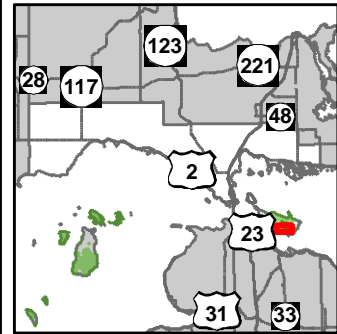
Compartment: 220  
 Bois Blanc Island, County Claim  
 21-24  
 County: Mackinac  
 Unit: Gaylord  
 Mgmt Area: Great Lakes Islands - NLP  
 YOE: 2018  
 Acres: 1905 GIS Calculated  
 Examiner: Tricia St. Pierre  
 Map Revised: 8/26/2016  
 Map Phase: Post-Review



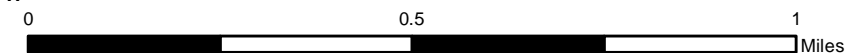
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Rivers
- Compartment Boundary
- Treatments with Site Conditions
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 123 - Other High Intensity Urban
- 330 - Low Density Trees



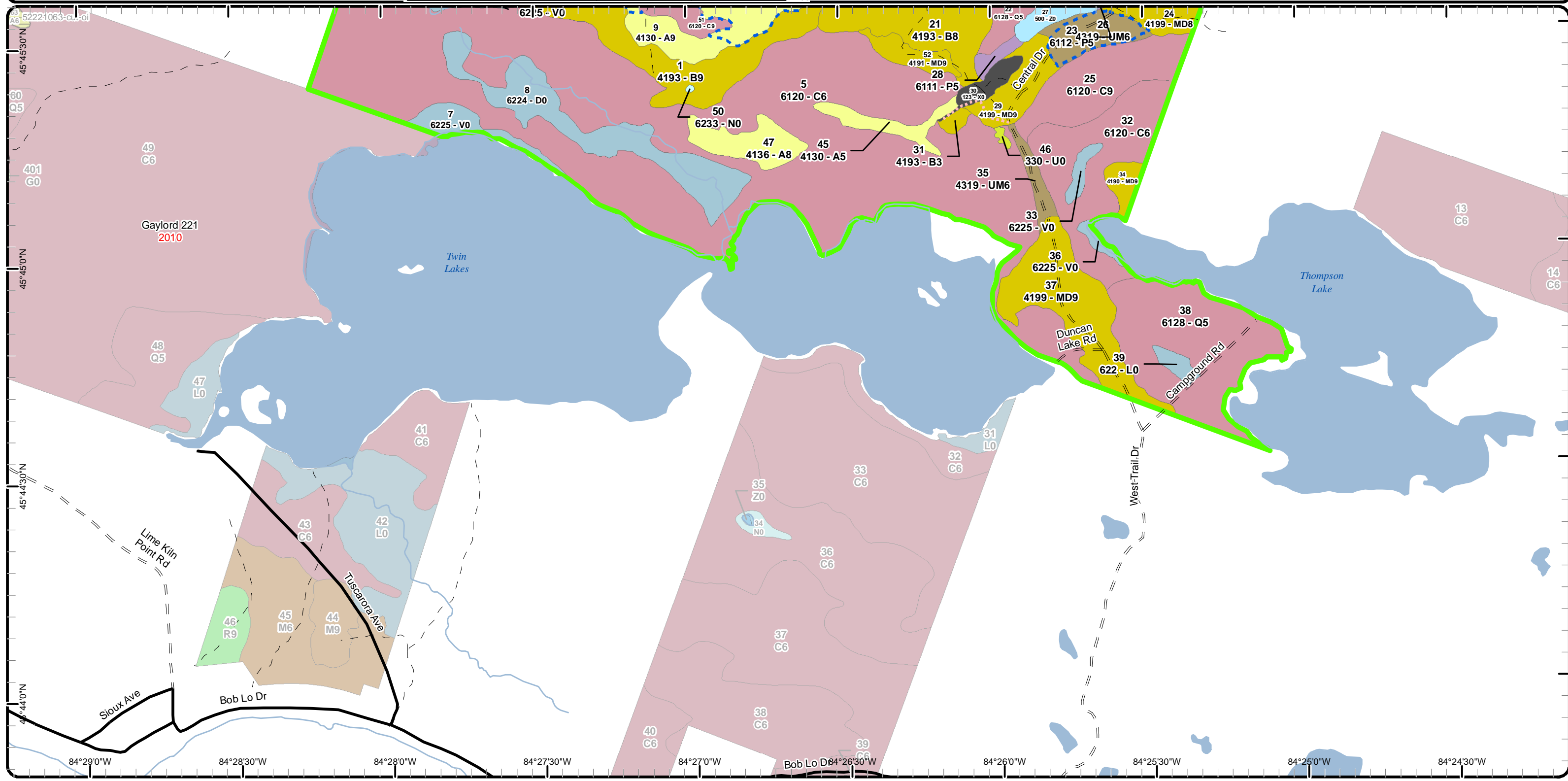
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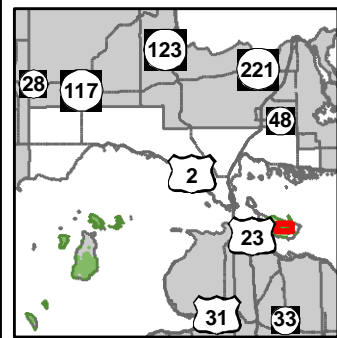


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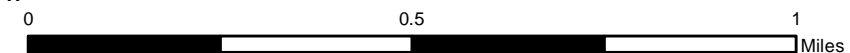




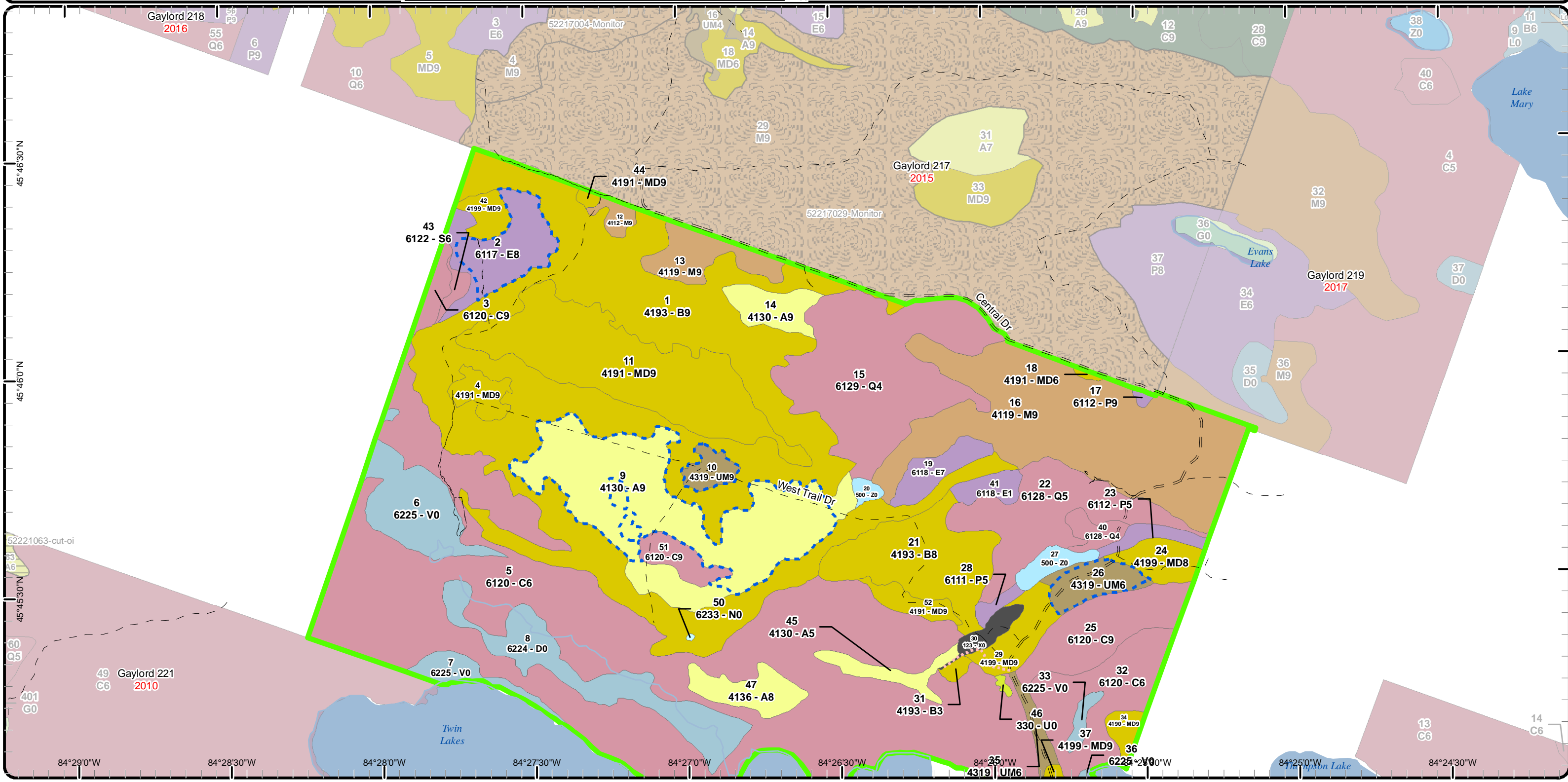
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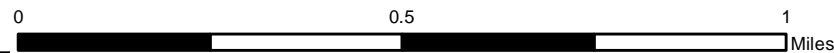
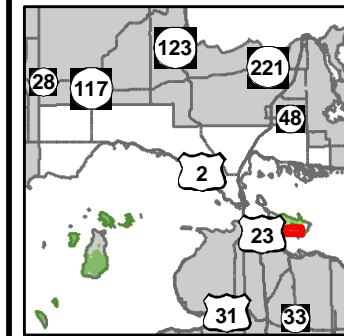
45°46'30"N  
 45°46'0"N  
 45°45'30"N  
 45°45'0"N  
 45°44'30"N  
 45°44'0"N

84°29'0"W    84°28'30"W    84°28'0"W    84°27'30"W    84°27'0"W    84°26'30"W    84°26'0"W    84°25'30"W    84°25'0"W    84°24'30"W

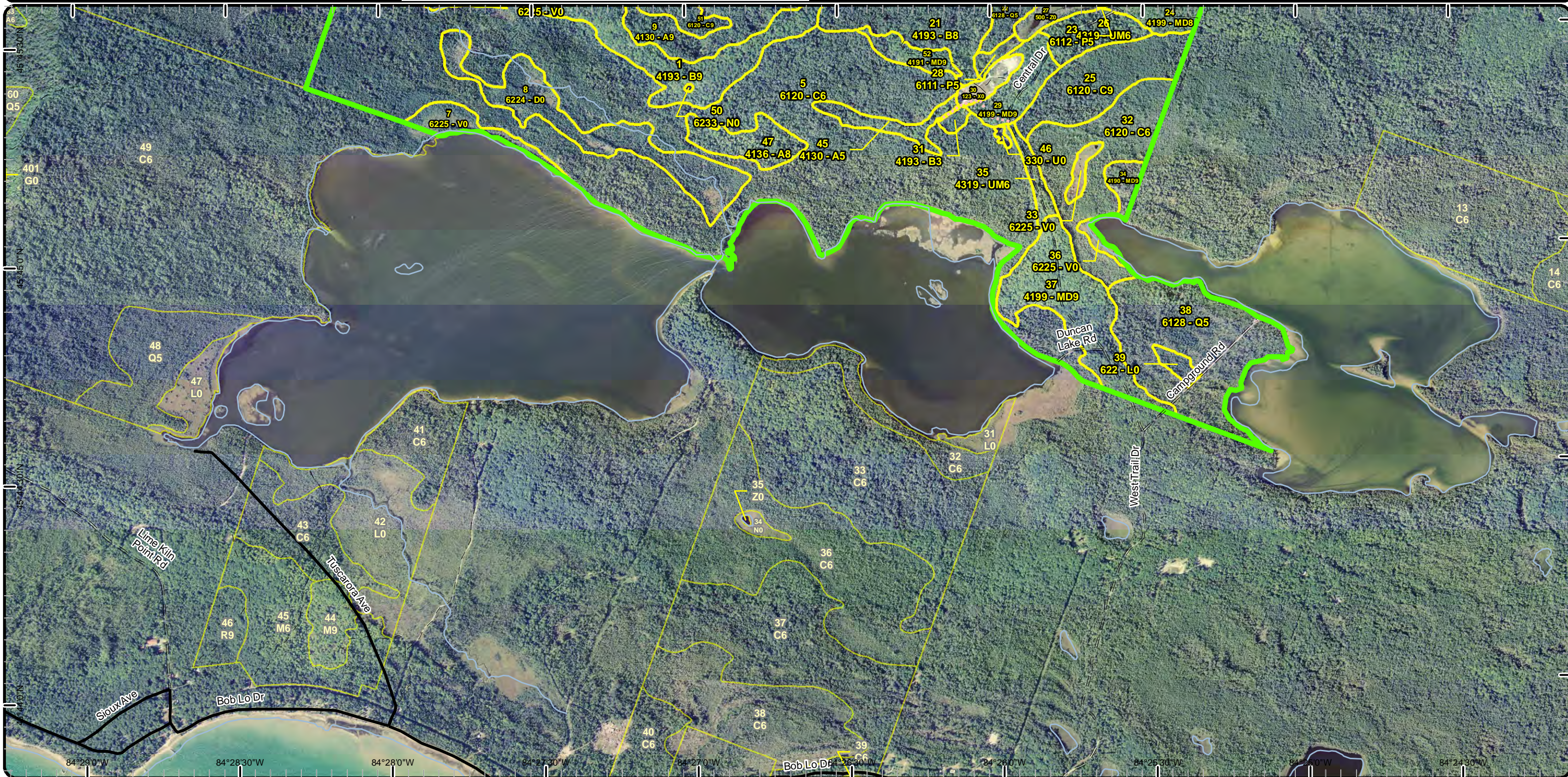


# Stand Boundary Map

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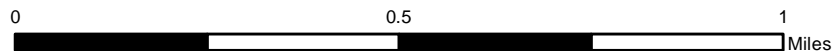
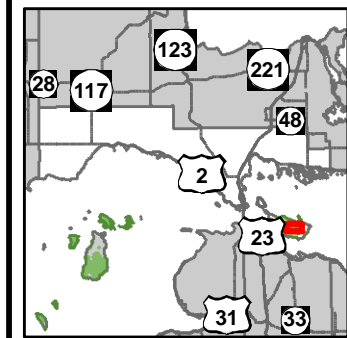
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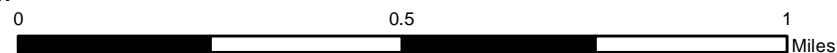
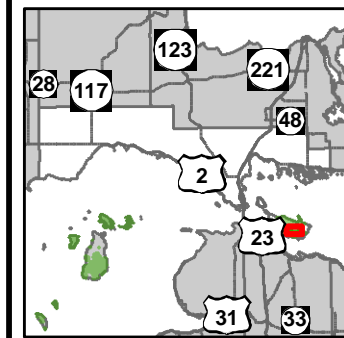
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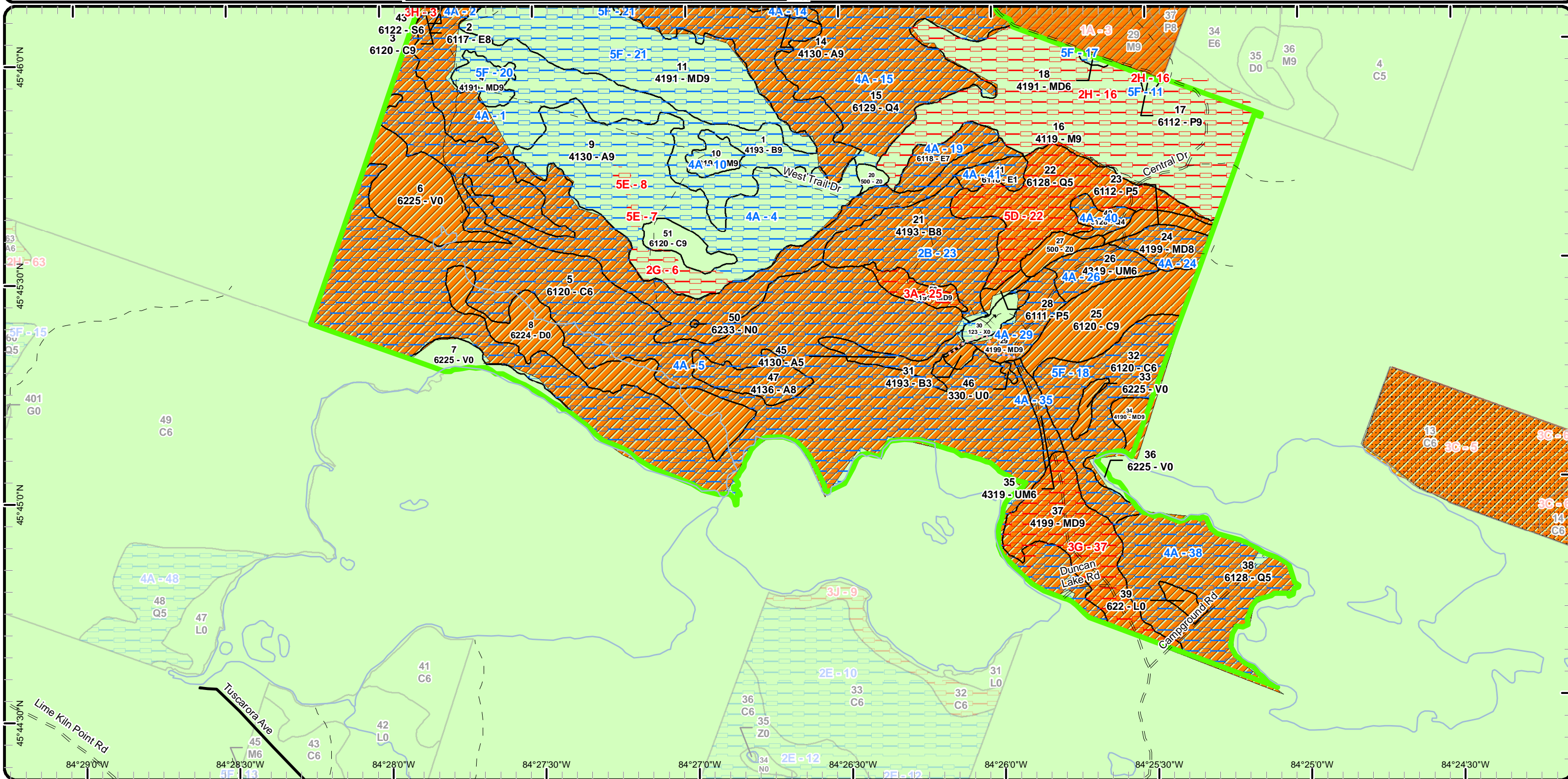


# Special Conservation Areas & Site Conditions Map

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- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2B: Unknown if access through adjacent landowner(s) is possible
- 4A: No Markets Available for these Forest Products
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Potential old growth / biodiversity
- 3G: Other Influence zones - See comments
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Eastern Massasauga Managed Land
- Forest Habitat Core Interior
- Natural Areas Legally Dedicated
- Great Lakes Islands
- Sand or Gravel Pit
- Sand or Gravel Pit
- Other SCA (No Category Assigned)











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	0	0	0	0	0	0	0	14	0	121	16	0	0	0	0	0	10	161
Bog	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Cedar	0	0	0	0	0	0	0	0	0	0	0	534	0	11	0	0	0	0	545
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	0	0	0	7	3	0	0	0	1	0	0	0	0	0	0	0	11
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	176	236
Lowland Deciduous	0	0	0	0	7	0	0	0	0	0	0	45	0	0	0	0	0	0	52
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Marsh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	6	0	182	16	0	0	0	0	0	0	203
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	173	0	0	0	0	0	0	0	173
Paper Birch	0	0	0	2	0	0	0	0	52	0	320	0	0	0	0	0	0	0	374
Treed Bog	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Upland Mixed Forest	0	0	0	0	0	0	0	0	7	0	21	0	0	0	0	0	0	0	28
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
<b>Total</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>7</b>	<b>7</b>	<b>3</b>	<b>0</b>	<b>82</b>	<b>0</b>	<b>818</b>	<b>671</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>186</b>	<b>1905</b>





## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 220

Total Compartment Acres: 1,905

Commercial Harvest -  
 Harvests with Site Condition - 146  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	101	0	0	0	0	0	0	0	0	101
Lowland Deciduous	25	0	0	0	0	0	0	0	0	25
Upland Mixed Forest	0	0	0	0	0	0	20	0	0	20
<b>Total</b>	<b>126</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>146</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	146	0	0	0	0	0	0	0	0	146
Next Step	0	0	0	0	0	126	0	0	0	126
<b>Total</b>	<b>146</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>126</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>273</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
2	52220002-Cut	24.9	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	107	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition: No Markets**

Prescription Clearcut all species to two-inches dbh except any pine or hemlock, if found. Area retention will be the portion of the uncut stand, designated in the western portion. Also mark clumps of hardwood and/or conifer as seed source at a density of 1 clump per acre. Maintain at least 5 trees per clump to minimize wind-throw. This stand was identified through the SBW Salvage effort.

Next Step Monitoring, Natural Regen (Re-Inventary)

Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for lowland deciduous with an inclusion of conifer. Stocking may take longer to achieve due to low site and productivity.

Other

Comment:

Proposed Start Date: 10/01/2017

9	52220009-Cut	101.3	4130 - Aspen	Sawtimber Well	97	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: No Markets**

Prescription Prescribed for SBW Salvage. Clearcut everything >2" dbh. (Slash/blow-down desired.) Do not cut any junberry, cedar, or hemlock (if found).

Specs: Mark 3-5 spruce per acre as leave trees for a seed source. Leave oblong retention pockets specifically around bands of cedar (estimated in the treatment boundary). Exclude small bog and potential vernal ponds, keeping a 100' buffer on these areas (as per guidelines). Maintain/protect two-track/ORV trail through stand. Do not cut any apple trees.

Next Step Monitoring, Natural Regen (Re-Inventary)

Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for aspen and mixed hardwood in any composition.

Other

Comment: There could be a lot of road work to get into this sale. Do NOT open road up to go east (too many sensitive/low/unique areas); all traffic must go west and north, up to Central Drive. Consider adding acreage from adjacent birch/aspen stand for reliably dry ground to work on too.

Proposed Start Date: 10/01/2017

10	52220010-Cut	7.4	4319 - Mixed Upland Forest	Sawtimber Well	72	81-110	Harvest	Salvage	4319 - Mixed Upland Forest	Two-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: No Markets**

Prescription Salvage all balsam fir >2" dbh. Separately scale any additional timber cut to facilitate salvaging operations.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

26	52220026-Cut	12.7	4319 - Mixed Upland Forest	Poletimber Well	97	81-110	Harvest	Salvage	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: No Markets**

Prescription Salvage all fir >2" dbh. Protect slopes into adjacent lowlands.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment  
Acreage Proposed: 146.3**



## Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 220

Tricia St. Pierre : Examiner

Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
161	1	145	16
53	53	0	0
544	48	487	9
1	0	1	0
11	10	1	0
235	0	175	60
52	0	52	0
4	4	0	0
3	0	0	3
0	0	0	0
204	6	141	56
173	0	0	173
374	2	372	0
45	45	0	0
28	0	28	0
6	4	2	0
10	10	0	0
1,905	183	1,405	317
	10%	74%	17%

### Dominant Site Conditions

	Availability for Management			Dominant Site Conditions											
	Acres Available	Acres Available With Condition	Acres Not Available	2B	4A	5F	1A	2G	2H	3A	3G	3H	5D	5E	
Aspen					145			12						4	
Bog															
Cedar					436	52		0			1	7			
Low-Density Trees					1										
Lowland Aspen/Balsam Poplar						1									
Lowland Conifers					175		7						53		
Lowland Deciduous					52										
Lowland Shrub															
Lowland Spruce/Fir												3			
Marsh					0										
Mixed Upland Deciduous					37	105			2	8	46				
Northern Hardwood									173						
Paper Birch					52	320		0							
Treed Bog															
Upland Mixed Forest					28										
Urban					2										
Water															
Total Forested Acres					52	1,196	157	7	12	174	8	48	10	53	4
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	Available	<b>4A: No Markets Available for these Forest Products</b>	312	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit

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Compartment: 220

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2	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	32	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is a good candidate for SBW Salvage efforts, though marketability, operability, and access are questionable. Placed a treatment on this stand in the event that harvesting is feasible.							
3	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	10	5A: Not able to obtain desirable regeneration	2I: Survey needed	4A: No Markets Available for these Forest Products	5F: Evaluated for Forest Health Considerations
<b>Comments:</b> Consider but declined for SBW Salvage efforts due to low risk and multiple site conditions.							
4	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	106	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Considered for SBW Salvage. Treatment added but site condition kept due to challenges of harvesting on the Island.							
5	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	469	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was evaluated but declined from SBW Salvage efforts because of variability in stand composition and site operability.							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	5A: Not able to obtain desirable regeneration	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
<b>Comments:</b>							



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8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	5A: Not able to obtain desirable regeneration	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	7	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Considered for SBW Salvage. Treatment added but factor limited due to logistical difficulties of harvesting on the island.							
11	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Considered for SBW Salvage. Declined due to small stand size and characteristics of the stand and topography.							
12	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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14	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	14	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Considered for SBW Salvage but declined due to low volume of fir and spruce, stand diversity, and regeneration concerns.							
15	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	95	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW Salvage. Undesirable with low stocking and difficult to regenerate species. This is a low-productivity site.							
16	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	154	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Considered for SBW Salvage. Declined due to stand characteristics and small size.							
18	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	52	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Considered for SBW Salvage but declined due to stand composition. Low risk without any balsam fir.							
19	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</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>							



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20	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small stand on Bois Blanc Island. I don't think there is currently a market on the island.							
21	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	94	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Bois Blanc Island. No local markets, removing wood from the island is cost prohibitive.							
22	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	53	4A: No Markets Available for these Forest Products	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<b>Comments:</b> Considered for SBW Salvage. Declined due to low stocking and composition of stand.							
23	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	52	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	13	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	8	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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26	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	15	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Considered for SBW Salvage. Treatment added but site conditions remain due to difficulties harvesting on the Island.							
29	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	20	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	6	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Considered for SBW Salvage but declined due to stand characteristics.							
37	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	48	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	72	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Considered for SBW Salvage but declined due to stand characteristics.							
40	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	7	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW Salvage but declined due to sensitive soils, channels, and general stand composition.							



## Report 4 – Site Conditions

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Compartment: 220

Year of Entry: 2018

41	Available	4A: No Markets Available for these Forest Products	7	5F: Evaluated for Forest Health Considerations	2E: Road needed	Unspecified	Unspecified
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**Comments:**

Considered for SBW Salvage. Inaccessible, transition between slight upland stand and low cedar swamp.

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



**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	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4193 - Birch, Aspen	Sawtimber Well	320.0	97	111-140	<p>Pockets of mature BTA scattered throughout the stand, otherwise relatively homogeneous presence throughout. Sugar maple is smaller in diameter in areas heavy to paper birch and larger in diameter in areas of other hardwood, less birch. QA regen under a couple pocket of mature QA, heavily browsed. Trace Red Oak, mostly on upland-lowland interface.</p> <p>Helleborine present in trace amount throughout stand.</p> <p>Occasional pockets of thick balsam fir regeneration. EAB and BBD present; less than 100% mortality. Observe beech for resistance, ash for survivorship. See OI comments for observations in stand natural features and variability. OPIC - FMD: A MEANDERING STAND THAT VARIES CONSIDERABLY IN SPECIES COMPOSITION WITH ONLY SLIGHT CHANGES IN ELEVATION. IF WE WERE TO CONSIDER ANY EVEN-AGED PRESCRIPTIONS FOR THIS COMPARTMENT, THIS STAND WOULD BE THE BEST CANDIDATE.</p>
2	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	31.8	107	81-110	<p>Quite a bit of blow-down and tip-ups, mostly old balsam fir. Declining paper birch. Very old cut stumps and fire scars. Dead black ash scattered throughout stand (EAB). OPIC - FMD: THIS IS A SEASONABLY WET STAND.</p>
3	6120 - Lowland Cedar	Sawtimber Well	7.0	107	201+	<p>Trace amount of paper birch and balsam fir in the canopy. This stand was originally part of the adjacent Spruce stand, but has been broken out because of the dominance of cedar and larch. Very sensitive root mat, limited regeneration. Occasional red maple and balsam fir seedling, not established or well developed.</p> <p>OI Comment pertain to the previous inventory when this was part of the adjacent Spruce stand.</p> <p>OPIC - FMD: A VERY DENSE STAND OF SMALL DIAMETER SPRUCE. MNFI HAS SUGGESTED THAT THIS STAND HAS THE ATTRIBUTES OF A RICH CONIFER SWAMP AND SHOULD BE REVIEWED UNDER THE BIODIVERSITY PLANNING PROCESS. AS SUCH IT HAS BEEN CODED AS POTENTIAL OLD GROWTH. I WOULD SUGGEST THAT AS PART OF THIS PROCESS ADJACENT STANDS SHOULD ALSO BE CONSIDERED FOR INCLUSION.</p>
4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	9.4	97	111-140	<p>Trace amounts of BAM in canopy. Pockets becoming dominated by spruce, fir. Apple tree in stand and a few scattered along the road west. Basal area is right around 120, a few areas less than that.</p> <p>OPIC - FMD: IN GENERAL THIS IS NOT A WET STAND. HARDWOOD SPECIES ARE DOMINATE BUT THE FIR UNDERSTORY WILL EVENTUALLY TAKE OVER AS THE ASPEN AND BIRCH DIES OUT.</p>





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
5	6120 - Lowland Cedar	Poletimber Well	437.8	107	201+	<p>This is a large lowland complex. The stand varies greatly by composition and size, especially sensitive to minor changes in topography. Quite a few areas dominated by fir-spruce-PB/RM/QA/BA-wc, from most to least dominant. Lots of coarse woody debris, pockets of blow-down/tip-ups. Lots of striped maple, balsam fir regenerating in these areas of disturbance. Some dead balsam fir in the canopy. Heavy browsing on regenerating aspen.</p> <p>Starflower, helleborine, occasional lily of the valley, and lots of moss on the ground.</p> <p>The interior of this stand is much different than the edges, dominated largely by pole white cedar. Extreme east/northeast boundary (towards gravel pit) is much larger in diameter, including hemlock.</p> <p>It is unlikely that the small amount of regenerating hardwood will recruit into the canopy, much less survive browsing. It's likely that these are seedlings and saplings that had the right conditions for germinating, but probably won't survive a very wet year in the lowland complex.</p> <p>OPIC - FMD: A MUCH WETTER STAND THAN THE TIMBER ADJACENT TO THE NORTH. QUITE A BIT OF CEDAR IS PRESENT.</p>
9	4130 - Aspen	Sawtimber Well	121.1	97	111-140	<p>Pockets of smaller diameter white spruce in canopy. Dense pockets of balsam fir throughout subcanopy; scattered dense pockets of striped maple. A few pockets of white cedar in the subcanopy. Dead ash in canopy, some living. Some brooming in the balsam fir. White spruce increases in the south and east.</p> <p>Trace amounts of willow under a pocket of dead ash.</p>
10	4319 - Mixed Upland Forest	Sawtimber Well	7.4	72	81-110	<p>Supercanopy quaking aspen. Basswood, red maple, few red oak creeping in on adjacent hardwood edges. Apple tree(s) along road in/through stand. Regeneration of deciduous species is limited to edges and canopy gaps.</p> <p>Add locked comments.</p> <p>Regeneration concern. There is a lot of balsam fir and probably too little aspen to properly regenerate this stand. QA is old, crowns are large, trees are not vigorous, not a highly productive site.</p>
11	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	94.3	97	111-140	<p>This is a truly diverse stand.</p> <p>Sugar maple regeneration is dense in pockets but not consistent throughout stand. It was a good year for sugar maple germination.</p> <p>Most BAM &gt;6" dbh is dead or declining. The extreme western portion of the stand is dominated by balsam fir. A few dead elm; scarification might invigorate seedbank for elm and birch. Many XL paper birch are still alive which is uncommon for the island.</p>
12	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.8	97	81-110	<p>OPIC - FMD: THESE ARE FAIRLY NICE QUALITY HARDWOODS. THE SUGAR MAPLE LOGS ARE ESPECIALLY NICE. THE OVERALL STAND BASAL AREA IS NOT VERY HIGH BUT WE MAY WANT TO REMOVE SOME OF THE BEECH NOW AHEAD OF THE ADVANCING FRONT OF THE BEECH BARK DISEASE. SINCE THE VOLUME AND VALUE OF THE PRODUCTS TO BE REMOVED WOULD BE QUITE LOW, WE MIGHT BEST BE ABLE TO GET THIS THINNED USING THE LOCAL FIREWOOD MARKET.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	4119 - Mixed Northern Hardwoods	Sawtimber Well	19.5	97	51-80	<p>It was a good year for sugar maple germination. Right now the stocking is full for seedlings, but it is unlikely that survival rates will maintain such high stocking. BBD present but didn't get every beech. Found one balsam fir and one yellow birch in the subcanopy. Basal area is hovering just above 60 sqft.</p> <p>OPIC - FMD: THESE ARE FAIRLY NICE QUALITY HARDWOODS. THE SUGAR MAPLE LOGS ARE ESPECIALLY NICE. THE OVERALL STAND BASAL AREA IS NOT VERY HIGH BUT WE MAY WANT TO REMOVE SOME OF THE BEECH NOW AHEAD OF THE ADVANCING FRONT OF THE BEECH BARK DISEASE. SINCE THE VOLUME AND VALUE OF THE PRODUCTS TO BE REMOVED WOULD BE QUITE LOW, WE MIGHT BEST BE ABLE TO GET THIS THINNED USING THE LOCAL FIREWOOD MARKET.</p>
14	4130 - Aspen	Sawtimber Well	14.2	78	51-80	<p>Supercanopy QA (XL); some log sized paper birch dying out. Small pocket of white spruce, larch. Dead black ash throughout; occasional pocket of coarse woody debris, some tip-ups.</p> <p>1 hemlock, 10". Club moss, star flower, bladder sedge, bedstraw, bunchberry, raspberry, bracken fern, other mosses on ground.</p> <p>OPIC - FMD: STAND HAS A WELL DEVELOPED ASPEN UNDERSTORY. THIS STAND SHOULD SELF PERPETUATE AS THE MATURE TIMBER DIES OUT.</p>
15	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	103.7	107	1-50	<p>Composition of this stand is highly variable; variable in size, density, and species distribution. Has potential for entire flooding. The eastern leg has many wandering streams, standing water.</p> <p>Bands of white cedar alternating with swaths of larch. White pine is fairly consistent throughout western 2/3. Slightly higher ground in the northcentral portion of this stand containing some aspen.</p> <p>Old beaver damage; probably standing water in most seasons/years. Lots of white pine and cedar snags.</p> <p>OIPC - FMD: THIS IS A VERY WET STAND. LOTS OF DEAD STANDING TIMBER.</p>
16	4119 - Mixed Northern Hardwoods	Sawtimber Well	148.7	97	81-110	<p>There is a long, narrow depression in the south part of this stand "flowing" into the adjacent stand 19 (in the southwest). There are dead elm and a few yellow birch that congregate in this area. BBD present, most log-sized beech are dead, but a few are living. More beech in north and northeast. Beech is in concentrated pockets throughout the stand, not necessarily consistent throughout.</p> <p>Basal areas range from 50-140, median of 102, mode of 110 (then 100).</p> <p>Sugar maple seedlings are a result of very successful germination this year, but it is unlikely that they will recruit to seedlings, at least not in the density that they currently exist. This is common throughout the upland stands on the island for this year.</p> <p>OPIC - FMD: THESE ARE FAIRLY NICE QUALITY HARDWOODS. THE SUGAR MAPLE LOGS ARE ESPECIALLY NICE. THE OVERALL STAND BASAL AREA IS NOT VERY HIGH BUT WE MAY WANT TO REMOVE SOME OF THE BEECH NOW AHEAD OF THE ADVANCING FRONT OF THE BEECH BARK DISEASE. SINCE THE VOLUME AND VALUE OF THE PRODUCTS TO BE REMOVED WOULD BE QUITE LOW, WE MIGHT BEST BE ABLE TO GET THIS THINNED USING THE LOCAL FIREWOOD MARKET.</p>





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	6112 - Lowland Aspen	Sawtimber Well	1.1	97	51-80	<p>Small pocket of cedar in the northeast, but given the small size of the stand, cedar will account for approx. 10% of canopy. Tiny depression within an upland stand. Very neat composition. Lots of coarse woody debris.</p> <p>OPIC - FMD: THIS IS AN EXTENSION OF A LARGER STAND TO THE NORTH LOCATED IN COMPARTMENT #217. IT IS NOT REALLY WET BUT IT CERTAINLY IS LOWER GROUND THAN THE SURROUNDING NORTHERN HARDWOOD STAND.</p>
18	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	0.9	97	81-110	<p>Strange change in composition through this small stand, dominated by balsam fir in west with quaking aspen supercanopy; dominated by hemlock/paper birch/beechn in eastern third, transitioning between. Basal areas are highly variable too. from 60-140.</p> <p>OPIC - FMD: THIS IS AN EXTENSION OF A LARGER STAND TO THE NORTH LOCATED IN COMPARTMENT #217. IT IS NOT REALLY WET BUT IT CERTAINLY IS LOWER GROUND THAN THE SURROUNDING NORTHERN HARDWOOD STAND.</p>
19	6118 - Lowland Deciduous with Cedar	Sawtimber Poor	12.7	107	81-110	<p>Swamp dewberry, thistle rosettes (and a few stalks), sensitive fern also in subcanopy/ground flora. Swampy opening with dead timber, somewhat NF, running parallel to the south half of the east boundary. Swampy opening was formerly dominated by yellow birch, paper birch, black ash, and cedar. Alder is clumpy. Few sugar maple on edges, sapling and pole sized.</p> <p>OPIC - FMD: EXTREMELY WET. LARGE PROPORTION OF DEAD STANDING TIMBER.</p>
21	4193 - Birch, Aspen	Sawtimber Medium	51.7	78	51-80	<p>Distinct stratification with quaking aspen "supercanopy" and red maple/paper birch inclusion - all represented as the canopy layer.. Dense striped maple in pockets. Few yellow birch (p/s) and white cedar.</p> <p>OPIC - FMD: THIS STAND WAS WET WHEN I INVENTORIED IT. I WOULD EXPECT THOUGH THAT IT DRIES OUT LATER IN THE YEAR.</p>
22	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	53.1	107	111-140	<p>This is a variable stand, indeed. more spruce in the far west finger; couple pockets of blow-down, though mostly near the eastern edge. Paper birch rarely gets to a log size. Most of the balsam fir in the canopy is dead and/or dying out. Very few black ash in canopy, mostly dead. Occasional beech, red maple, and sugar maple seedling/sapling in the subcanopy, but not enough to even call them trace amounts.</p> <p>OPIC - FMD: THIS STAND IS QUITE VARIABLE. BEST TIMBER IS TO THE NORTH ADJACENT TO STAND #16. OTHER AREAS THE TIMBER IS POOR QUALITY AND SOMETIMES QUITE SPARSE.</p>
23	6112 - Lowland Aspen	Poletimber Medium	6.7	47	1-50	<p>Reported &lt;25% canopy closure during the inventory process, but imagery shows that it's likely &gt;25% closure. Species composition is based on field observations and guesstimation.</p> <p>Formerly an E5 stand, but most of the ash is now dead.</p> <p>OPIC - FMD: STANDING WATER ALL THROUGHOUT THIS STAND. MIGHT BE IMPOUNDED DUE TO BEAVER ACTIVITY.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	12.9	97	81-110	Two-storied. Upper story: PB/RM with >50% closures. Lower: BF with nearly 100% closure. Southern half of stand has greater canopy closure in Birch/Maple overstory. Trace amounts of Bigtooth aspen. Southern edge, especially southeast corner is a bit more variable with the inclusions of some other hardwood species. Red oak down there - possible OFS point. OPIC - FMD: EXTREMELY HEAVY FIR UNDERSTORY ABOUT 10-15 FEET TALL. DUE TO THE TRAVEL INFLUENCE ZONE, I WOULD PREFER TO LET THIS STAND CONVERT TO FIR.
25	6120 - Lowland Cedar	Sawtimber Well	37.2	107	201+	Lots of coarse woody debris. Pockets of paper birch and other mixed hardwood. Seldom an XL cedar. Regen varies by canopy density. Helleborine present. Few larch exuding sap; dead/dying. "rubbed off" bark look all the way up the tree. OPIC - FMD: VERY NICE QUALITY CEDAR. THE STAND IS DEFINITELY LOW GROUND BUT THERE WAS NO STANDING WATER WHEN INVENTORIED.
26	4319 - Mixed Upland Forest	Poletimber Well	15.0	97	81-110	OPIC - FMD: THERE IS A LARGE BALSAM AND CEDAR COMPONENT IN THIS UPLAND STAND.
28	6111 - Lowland Balsam Poplar	Poletimber Medium	3.3	57	1-50	Formerly dominated by black ash, which is now mostly dead from EAB. Aspen is variable; heavy browsing on regeneration. Full grass/sedge coverage. Stand opens up a but in the northeast towards the NF stand. Thistles, deadnettle present. OPIC - FMD: THERE IS A WELL DEFINED STREAM FLOWING THROUGH THIS STAND.
29	4199 - Other Mixed Upland Deciduous	Sawtimber Well	16.2	97	81-110	Subcanopy is very variable, as is the stand composition. Striped maple is high in the southwest, sugar maple (saplings, seedlings, and poles) are also patchy. The northern-most quarter of the stand is much higher quality sugar maple, paper birch, red oak. There's a slight site change with more aspen, fir just south of that. The gravel pit has been drained towards the U0 (stand 46) to the south. Trace amounts of balsam fir reach the canopy. Few cedar as the stand begins to drop down towards the adjacent cedar swamp(s). Old stumps, old fire scars. Apple tree at junction in road; spruce and hemlock in between fork also. Partridge berry on the ground. OPIC - FMD: NORTHERN PORTIONS OF THIS STAND HAVE SOME SUGAR MAPLE AND BEECH MIXED IN. I WOULD IMAGINE THAT THE GRAVEL PIT WILL EVENTUALLY EXPAND INTO THIS STAND.
31	4193 - Birch, Aspen	Sapling Well	2.2	28	Immature	Nearly impossible to walk through - LOTS of down woody debris. Some dead yew. Very nice and diverse regeneration - mostly paper birch and aspen, good mix of other species too. Larch, cedar, and other conifers seedling in. Winter conditions, sale timing, excessive debris left - all made for very successful (desired) regeneration. OPIC - FMD: THIS STAND WAS A WINTER HABITAT CUT WHICH WAS DONE DURING THE WINTER OF 1988-89. IT HAS REGENERATED QUITE SUCCESSFULLY TO AN ASPEN/BIRCH MIX THAT IS NOW ABOUT 15 FEET TALL. MUCH SMALLER CEDAR AND FIR CAN BE FOUND BUT THEY ARE RELATIVELY RARE.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	6120 - Lowland Cedar	Poletimber Well	51.8	107	111-140	Royal fern, nearly full coverage of moss; grasses, sedges, thistle rosettes. Variable diameters and densities in areas, especially north compared to south. OPIC - FMD: THIS STAND IS EXTREMELY THICK AND HAS THE APPEARANCE OF BEING POOR QUALITY, RELATIVELY SHORT AND STAGNANT TIMBER. THIS IS QUITE A WET SITE.
34	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	6.0	78	111-140	Really amazing stand. Very cool. It would be difficult to divide the east and west half, but there is a difference in species composition. QA, WC, RM dominate the eastern half; Hemlock, RM, RO and birch are more prominent in the west. BAs vary from 120-230, the mode is really 120-140. Very heavy browse on anything that isn't balsam fir. One small hemlock, <4" tall, regenerating. OPIC - FMD: THIS STAND WAS WET WHEN I INVENTORIED IT. I WOULD EXPECT THOUGH THAT IT DRIES OUT LATER IN THE YEAR. QUITE A LOT OF CONIFER SPECIES THROUGHOUT THE STAND.
35	4319 - Mixed Upland Forest	Poletimber Well	6.0	97	111-140	Stand is along an upland ridge but drops down into cedar swamps. Old OI notes are accurate: many lowland species on this upland site. Stand opens up a bit in the south. One pocket dominated by paper birch in the northeast. More sugar maple, less red maple in the north. OPIC - FMD: STAND OCCUPIES A DRY RIDGE ADJACENT TO THE COUNTY ROAD. IT CERTAINLY IS NOT WET BUT THERE IS A WHOLE BUNCH OF SWAMP CONIFER SPECIES ALL THROUGHOUT THIS STAND. TWO OLD LOG CABINS ARE LOCATED IN THIS STAND.
37	4199 - Other Mixed Upland Deciduous	Sawtimber Well	46.2	97	111-140	Upland stand with some lowland tendencies. Very nice red oak. Areas of dense sugar maple regeneration - good year for germination but unlikely that they'll recruit into saplings. Trace amounts of hemlock, balsam fir, and white spruce in canopy. EAB present. More ash in the north, especially northwest. OPIC - FMD: THESE ARE FAIRLY NICE QUALITY HARDWOODS BUT UNLIKE THE M9 STANDS FURTHER TO THE NORTH THERE IS A FAIR AMOUNT OF CEDAR ALSO REPRESENTED WITHIN THIS STAND. THERE IS ALSO SOME OAK MIXED IN AS WELL. THE OLD FIRE TOWER WAS LOCATED AT THE FAR NORTH END OF THE STAND. AN EXPERIMENTAL DEER EXCLOSURE IS ALSO LOCATED WITHIN THIS STAND.
38	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	71.7	50	1-50	There are pockets more densely stocking with cedar, especially in the northwest. Standing water in spots. Lots of blow-down. This is very compositionally diverse. OPIC - FMD: THIS IS A VERY STRANGE STAND. IT LOOKS WET BUT THERE IS EXPOSED ROCK AND COBBLES EVERYWHERE. THE TIMBER IS EXTREMELY POOR FORM AND QUALITY. A ROAD END ACCESS SITE EXISTS WITHIN THIS STAND ON THE SHORES OF THOMPSON LAKE.
40	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	6.9	107	1-50	Pole/sapling stand. Low productivity. Road disrupts hydrology of this stand - small portion east of road isn't quite as wet, has a big larger/denser timber. Sweet coltsfoot on edge of road. OPIC - FMD: THIS IS A VERY WET STAND. LOTS OF DEAD STANDING TIMBER.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	6118 - Lowland Deciduous with Cedar	Sapling Poor	7.3	32	1-50	Formerly dominated by black ash. Bedstraw, sweet coltsfoot, cattails present. Beaver damage. Lots of coarse woody debris.
42	4199 - Other Mixed Upland Deciduous	Sawtimber Well	7.9	102	81-110	Very old stumps and fire scars. A very slight change in topography, slightly higher quality site than the surrounding lowland.
43	6122 - Black Spruce	Poletimber Well	3.3	77	111-140	Thistle rosettes throughout stand, bedstraw, bunchberry, creeping snowberry, moss, and lichen present throughout. Most Balsam Fir in canopy is dead. Transition into adjacent E8 includes balsam fir, quaking aspen, and the introduction of some hardwood. OPIC - FMD: A VERY DENSE STAND OF SMALL DIAMETER SPRUCE. MNFI HAS SUGGESTED THAT THIS STAND HAS THE ATTRIBUTES OF A RICH CONIFER SWAMP AND SHOULD BE REVIEWED UNDER THE BIODIVERSITY PLANNING PROCESS. AS SUCH IT HAS BEEN CODED AS POTENTIAL OLD GROWTH. I WOULD SUGGEST THAT AS PART OF THIS PROCESS ADJACENT STANDS SHOULD ALSO BE CONSIDERED FOR INCLUSION.
44	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	1.5	97	111-140	BBD present. Dead/dying beech. Prolific AB regen east of road into the adjacent M9 stand. HigMost of the hemlock is barely subcanopy and is not represented in the canopy. After the beech and birch fall out this will most likely transition to a hemlock dominated canopy. OPIC - FMD: THESE ARE FAIRLY NICE QUALITY HARDWOODS. THE SUGAR MAPLE LOGS ARE ESPECIALLY NICE. THE OVERALL STAND BASAL AREA IS NOT VERY HIGH BUT WE MAY WANT TO REMOVE SOME OF THE BEECH NOW AHEAD OF THE ADVANCING FRONT OF THE BEECH BARK DISEASE. SINCE THE VOLUME AND VALUE OF THE PRODUCTS TO BE REMOVED WOULD BE QUITE LOW, WE MIGHT BEST BE ABLE TO GET THIS THINNED USING THE LOCAL FIREWOOD MARKET.
45	4130 - Aspen	Poletimber Medium	9.7	102	81-110	Very slight "upland" ridge in the cedar swamp.
47	4136 - Aspen, Mixed Conifer	Sawtimber Medium	16.1	106	81-110	Stand appears to be an upland ridge in a lowland complex. Based on stands 45 and 1, this is likely an upland aspen stand with an inclusion of red maple and paper birch with a dense balsam fir understory, likely spruce and cedar included.
51	6120 - Lowland Cedar	Sawtimber Well	10.6	122	201+	
52	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.4	107	111-140	Pretty remarkable stand. Boundaries are based on imagery and may vary on the ground. Unique composition for the island - potential old growth. Consider SCA. Little bit of a lowland/seasonally damp stretch with cedar, xl white pine in the west.





Stand	Cover Type	Acres	Managed Site	General Comments:
6	6225 - Bog	35.4	No	Northwest corner of stand has emergent wetland species and lowland trees/shrubs. Occasional tree around perimeter. OPIC - FMD: THIS APPEARS TO BE AN OLD BEAVER FLOODING. STILL VERY WET. MOST OF THE TIMBER WAS KILLED OFF.
7	6225 - Bog	11.1	No	Somewhat emergent mix of lowland trees, shrubs, grasses, etc. Accessible from adjacent compartment 221. Has great potential for flooding in wet years. OPIC - FMD: THIS IS A STAND OF MARSH GRASS ON THE SHORES OF ECHO LAKE.
8	6224 - Treed Bog	45.1	No	Streams/drainages throughout. Mix of lowland trees/shrubs/grasses throughout. Areas of dead timber. OPIC - FMD: THIS APPEARS TO BE AN OLD BEAVER FLOODING. STILL VERY WET. MOST OF THE TIMBER WAS KILLED OFF.
20	500 - Water	2.6	No	Small lake/pond. Tiny upland "island" in middle of lake with shrubs and variable (understocked) trees. OPIC - FMD: NICE SMALL VERY REMOTE LAKE. LOCALS CALL THIS THE "POTHOLE LAKE"
27	500 - Water	7.1	No	There is old beaver damage/flooding. Stream flows through stand and there is likely seasonal flooding or, depending on the year, more persistent flooding throughout the year. This year was fairly dry and the stream flow was down. Imagery shows areas that are likely wet (Water >50%) in most years. OPIC - FMD: THIS APPEARS TO BE A BEAVER FLOODING ALTHOUGH I AM NOT POSITIVE THAT IT IS STILL ACTIVE.
30	123 - Other High Intensity Urban	6.4	No	Gravel pit. Couple clumps of trees, primarily one off the road into the gravel pit. Permanent (small) deer blind set up. Some low spots with water, cattails, phragmites. Water from pit has been drained through a deep trench in the south heading through the adjacent MD9 and into the lowland cedar. OPIC - FMD: THIS IS THE FIRE TOWER GRAVEL PIT SCHEDULED TO BE LEASED VERY SOON TO THE MACKINAC COUNTY ROAD COMMISSION.
33	6225 - Bog	3.7	No	Pitcher plant. Good potential for sundew. Wide variety of wetland plants. Potential for flooding. OPIC - FMD: THIS IS A VERY WET STAND WITH A STREAM FLOWING OUT OF IT TO THE SOUTH.
36	6225 - Bog	2.8	No	OPIC - FMD: THIS IS A STAND OF MARSH GRASS ON THE SHORES OF THOMPSON LAKE.
39	622 - Lowland Shrub	3.8	No	Unproductive site or too wet (possibly too shallow organic layer) to sustain larger trees. High rock? OPIC - FMD: FAIRLY THICK TAG ALDER.
46	330 - Low-Density Trees	0.9	No	This stand is a large pocket of blow-down. These were larger diameter trees, spruce, cedar, fir, paper birch, hemlock - now jackstrawed. Nearly impossible to walk through. Regenerating cedar, birch, fir, and striped maple.
50	6233 - Wet Meadow	0.2	No	Very cool depression/pothole in the middle of an upland northern hardwood forest. 25' drop off down into this lowland all the way around. Roughly 70-degree slope down into this kettle.