



# Compartment Review Presentation

## Sault Ste. Marie Forest Management Unit

Compartment 45199

Entry Year 2021

Acreage: 2,261

County Mackinac

Management Area: Lake Michigan Shoreline

**Revision Date:** 2019-08-02

**Stand Examiner:** Matt Edison

### Legal Description:

T41N-R11W Sections 2, 3, 4, 9, 10 & 11; and T42N-R11W Section 33; Newton Township

### Identified Planning Goals:

This compartment is located at the end of S. Gould City Road and follows the Lake Michigan shoreline to the east. It is within the Lake Michigan Shoreline Management Area. No active management is being considered in this corridor except for the possibility of exotic plant eradication efforts and curtailing illegal ORV problems. Hardwood and aspen stands north of this corridor have been actively managed to promote health and growth. The beech in the area has been hit by beech bark disease and has been salvaged where accessible. Maintaining the beech component within the hardwood stands is desirable.

### Soil and topography:

Most of the proposed old growth corridor is rolling dune/swale complex consisting primarily of Leafriver-Croswell-Wainola complex. Other associated soils are Esau-Zela complex, Alpena gravelly loam, Markey and Carbondale mucks, and Eastport sand. The rest of the compartment is generally upland areas ranging from level terrain, to rocky outcrops, to rolling sandy ridges. Kalkaska sand, Amadon-Longrie sandy loam, and Springlake loamy coarse sand dominate this area, with minor components of Longrie-Battydoe, stony, complex; Eastport-Leafriver complex; Amadon-Rock outcrop complex; Paquin sand; Spot-Finch complex; Pickford silty clay loam; and Alcona fine sandy loam.

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

State land and LaPine farm adjoin the far north border. A mix of state land and private land are adjacent immediately to the west. State land presides to the east (part of the Simmons Woods purchase). Lake Michigan is the southern boundary of this compartment. A township park has been used for many years at the end of S. Gould City Road.

### Unique Natural Features:

: Large boulders and rocky fissures are located within compartment. Walking fern has been found on some of the boulders. Two former Champion Trees are located in Section 33. The former Champion yellow birch was found on the ground in 2006. The former Champion showy mountain ash lost its status due to the lack of a recorded location. It is still present. MNFI has identified several threatened and endangered plant species along the lakeshore. Other lakeshore dependent T&E species may be located here too. Bald eagles and red-shouldered hawks have found the area to their liking.

### Archeological, Historical, and Cultural Features:

Old foundation found by Cozy Point

### Special Management Designations or Considerations:

Special Conservation Areas (SCA's) include a deer wintering complex covering a majority of the compartment, a proposed old growth corridor linking lakeshore corridors to the east and west, and a non-dedicated Natural Area (Seiner's Point) following the shoreline and which continues to the east and west. A wooded dune and swale complex Ecological Reference Area (ERA) is found in the northern portion of Sections 2 and 3, and extends to the north and east. Known occurrences of walking fern and hawk nests will be protected appropriately within treatment areas.

### Watershed and Fisheries Considerations:

This compartment contains Newton Creek, Point Patterson Creek, Cataract River and several unnamed waterbodies. Newton Creek is designated Type 1 trout streams less than 50' width which serve as a tributary to Lake Michigan. A 300' buffer is recommended for Newton Creek in riparian areas susceptible to Aspen. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices (specifically stands 40, 44, 50, and 56). Point Patterson Creek is designated a Type 1 trout streams less than 50' width which serves as a tributary to Lake Michigan. A 300' buffer is recommended for Point Patterson Creek in riparian areas susceptible to Aspen regeneration (specifically stands 12, 13, 15, 37, 38, and 41). For areas not susceptible to Aspen regeneration, 100' plus 5' per 1%

increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices (specifically stands 5, 7, 36, 43, 45, 53, 60, 64, and 66).

The central region of this compartment contains several unnamed waterbodies. 100' plus 5' per 1% increase in slope; buffers are recommended to protect shoreland areas adjacent to these unnamed waterbodies in accordance with Best Management Practices (specifically stands 16, 17, 18, 19, 21, 23, 25, 26, 28, 29, 32, 33, 34, 35, 39, 40, 41, 43, 52, 53, 55, 57, 61, 62, and 70).

Cataract River is designated a Type 1 trout stream less than 50' width which serves as a tributary to Lake Michigan. A 300' buffer is recommended for the Cataract River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices (specifically stand 51).

The southern region of this compartment borders Lake Michigan (specifically stands 58, 59, 63, 65, and 67).

### **Wildlife Habitat Considerations:**

Compartment 199 is part of the Lake Michigan Shoreline MA where featured wildlife species include piping plover and white-tailed deer. This compartment is along the Lake Michigan shoreline and supports rare species and community types including a wooded dune and swale complex near the shoreline that is part of an environmental reference area (ERA). A dedicated habitat area (DHA) for core interior forest species is located in mostly the same area. Most of the compartment is also part of deer wintering complex. The southern end contains the wooded dune and swale complex and related conifer-dominated uplands and lowlands. The northern part is dominated by northern hardwoods. These stands were thinned over the last 10 years, one of which was primarily focused on harvesting diseased beech. A band of aspen and upland mixed forest separates these areas.

Wildlife objectives primarily involve maintaining the integrity of these systems. Areas in the ERA and DHA will be left to allow natural processes to occur. Deer, bear, bobcat, snowshoe hare, waterfowl, warblers, and eagles are a few of the wildlife that will benefit. This will also help to protect rare species like piping plover and Houghton's goldenrod. Hardwoods were recently treated and will be left to mature and allow for new growth to continue. This will encourage stand diversity, which will benefit species from bear to hawks.

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

No active sand/gravel pits exist in the area. There has been some limestone exploration within and around the northwest end of the compartment. Bethlehem Steel drilled several test wells in the late 1960s, but there was never any mining. There is good limestone potential within the compartment and bedrock is near the surface. Wetlands in the area, among other factors, could add significant cost to any potential surface mining operations. There is no known metallic mineral potential in this area, and there is no current economic oil and gas production in the UP. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights. Based on interpretation of Michigan statute, most non-metallic minerals are considered part of the surface estate.

### **Vehicle Access:**

S. Gould City Road (county road) runs along western edge of compartment. Access to the north half is via two-tracks. There is no vehicle access in the proposed old growth area east of the Newton Township Park. However, there is still illegal ORV activity along the old lakeshore road and beach.

### **Survey Needs:**

None needed.

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

Currently working with Newton Township to assume a long-term lease of Newton Township Park, a day use area, at the end of S. Gould City Road. This area was acquired in 1987 from the Nature Conservancy. Hunting activity occurs within the compartment, including deer, bear, small game, duck and goose hunting. A walk along the beach can be nice here without seeing anyone for miles.

### **Fire Protection:**

Due to the isolated nature of the shoreline, there is little potential for human caused fires. The Newton Township Park harbors limited potential for wildfires due to the human influences. Lightning strikes probably have occurred within the compartment, but have burned themselves out before being detected. The interspersing of the lowland swales probably help deters any small fires from becoming larger ones. Access to any wildfires would be difficult over the southern part of the compartment, and a plan should be made to consider minimal impact suppression tactics if needed. The northern section of the compartment is generally northern hardwoods and has limited potential for fires. However, the private land to the north burn their fields in the spring. This could lead to a small slop-over onto state land.

### **Additional Compartment Information:**

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

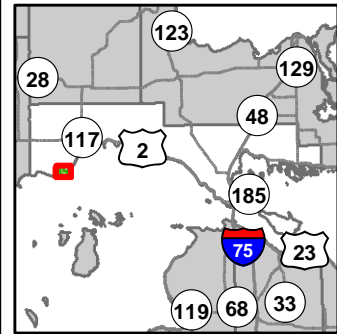
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

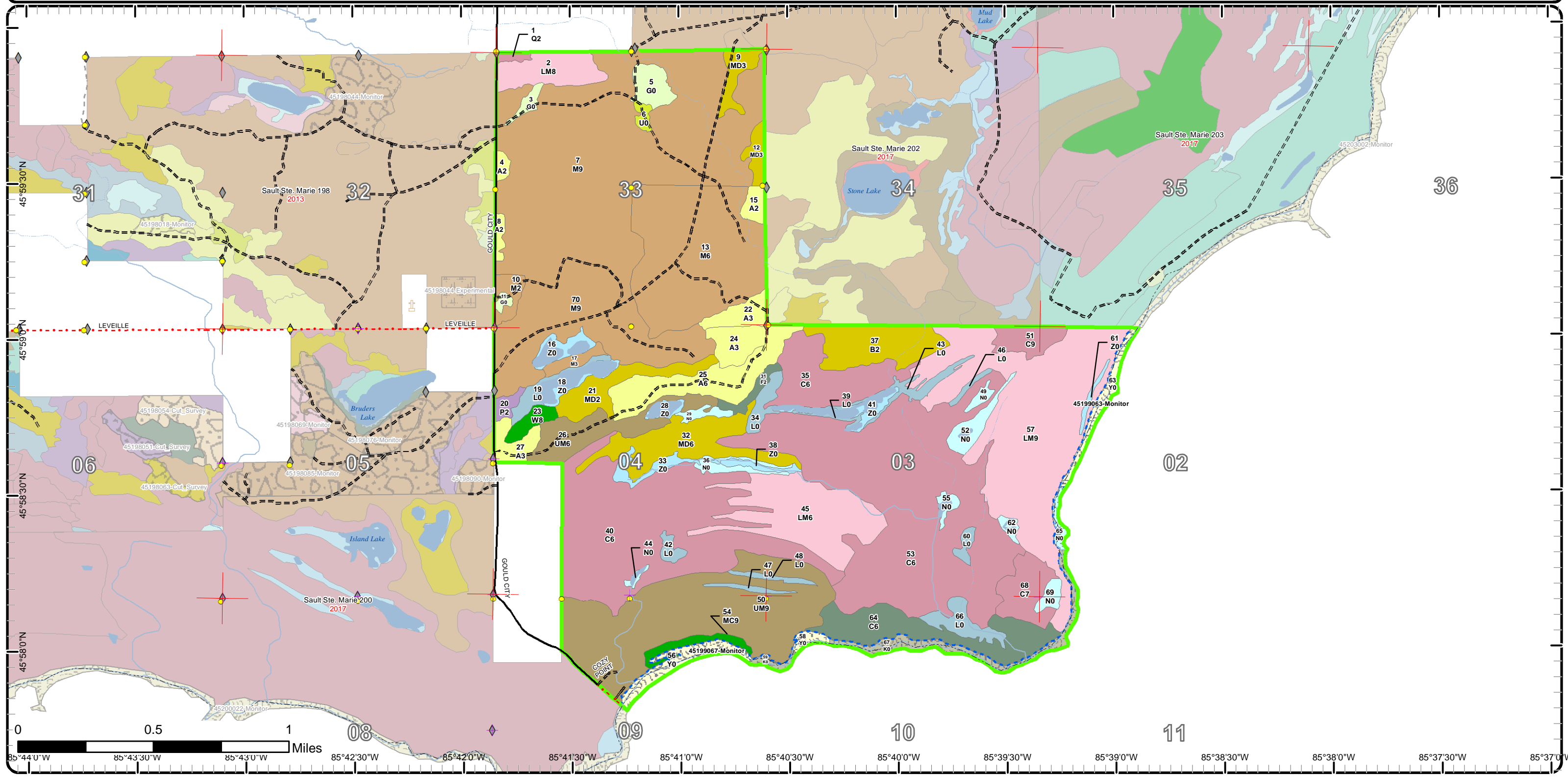
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

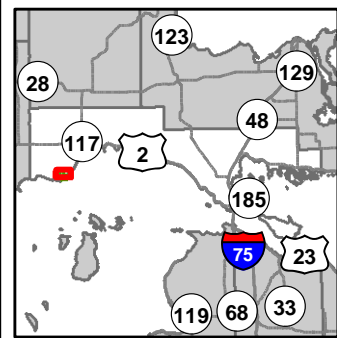
Compartment: 199  
 T41N, R11W, Sec: 2-4, 9-11  
 T42N, R11W, Sec: 33  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Lake Michigan Shoreline  
 YOE: 2021  
 Acres: 2,261 GIS Calculated  
 Examiner: Matt Edison  
 Map Revised: 8/12/2019  
 Map Phase: Web Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
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- .-.- County - Gravel Road
- ▲ Berms
- ⊕ Cemetery
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- Compartment Boundary
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- Treatments with Site Conditions
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
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- 623 - Emergent Wetland
- 710 - Sand/Soil
- 720 - Exposed Rock
- Lakes
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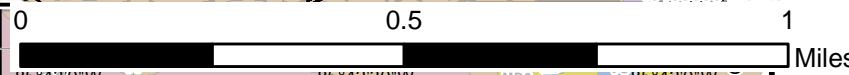
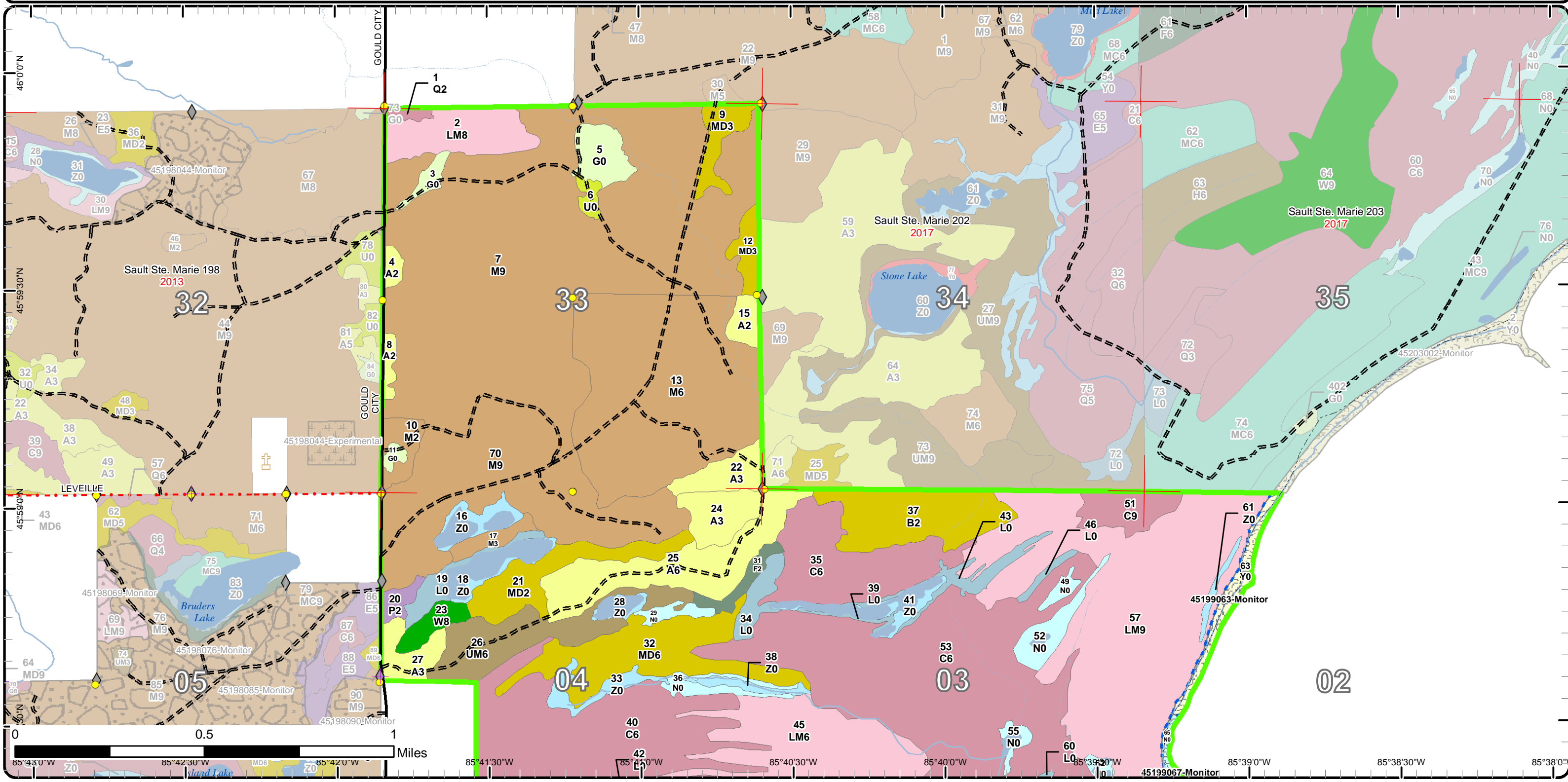


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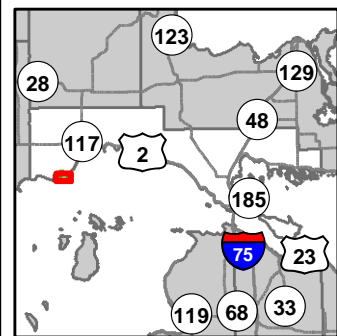


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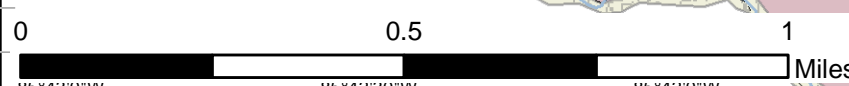
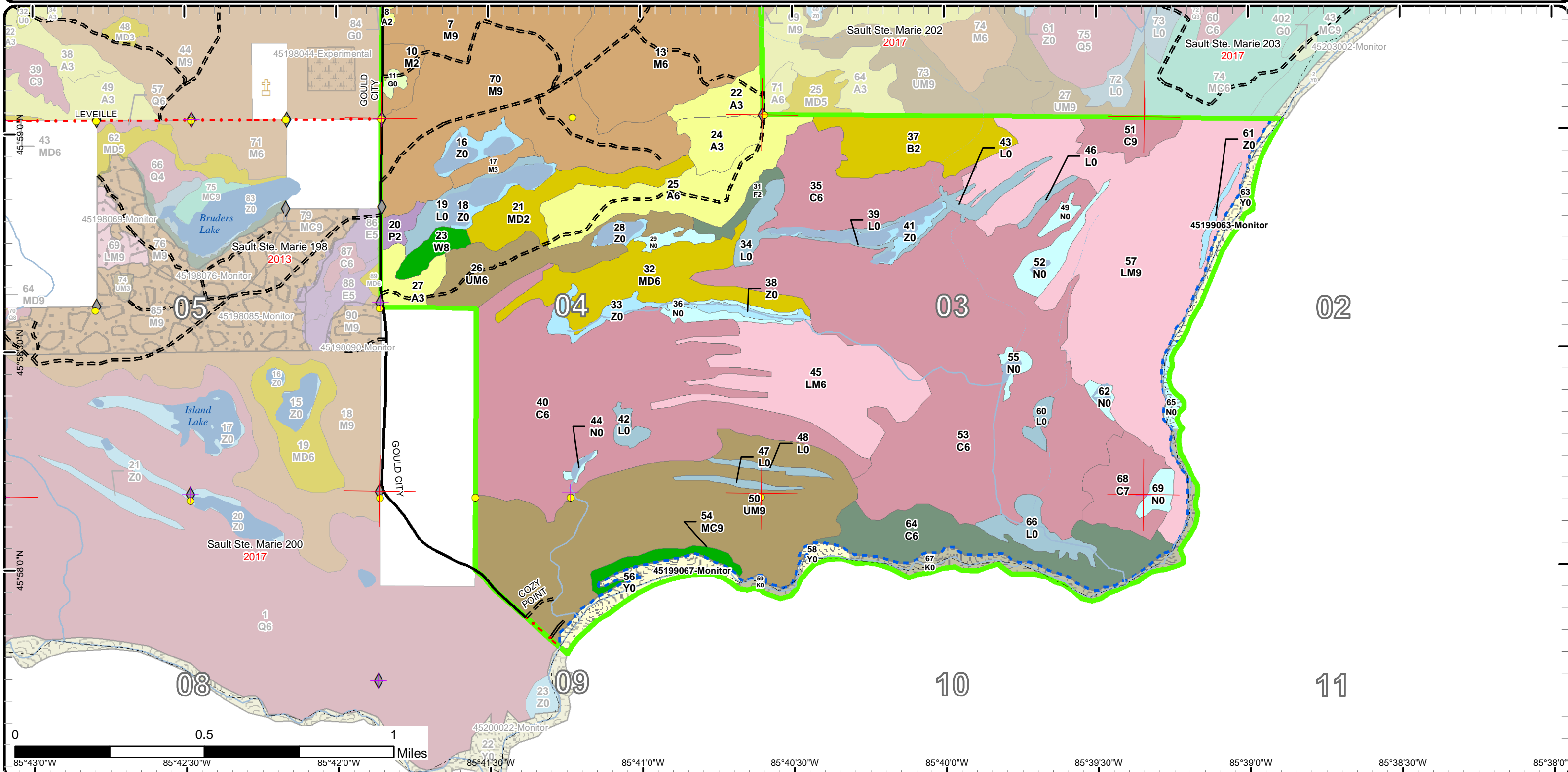


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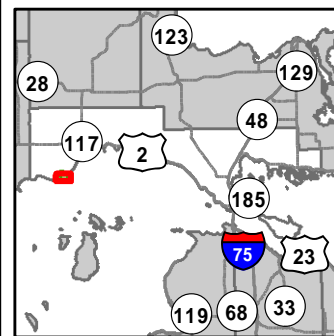




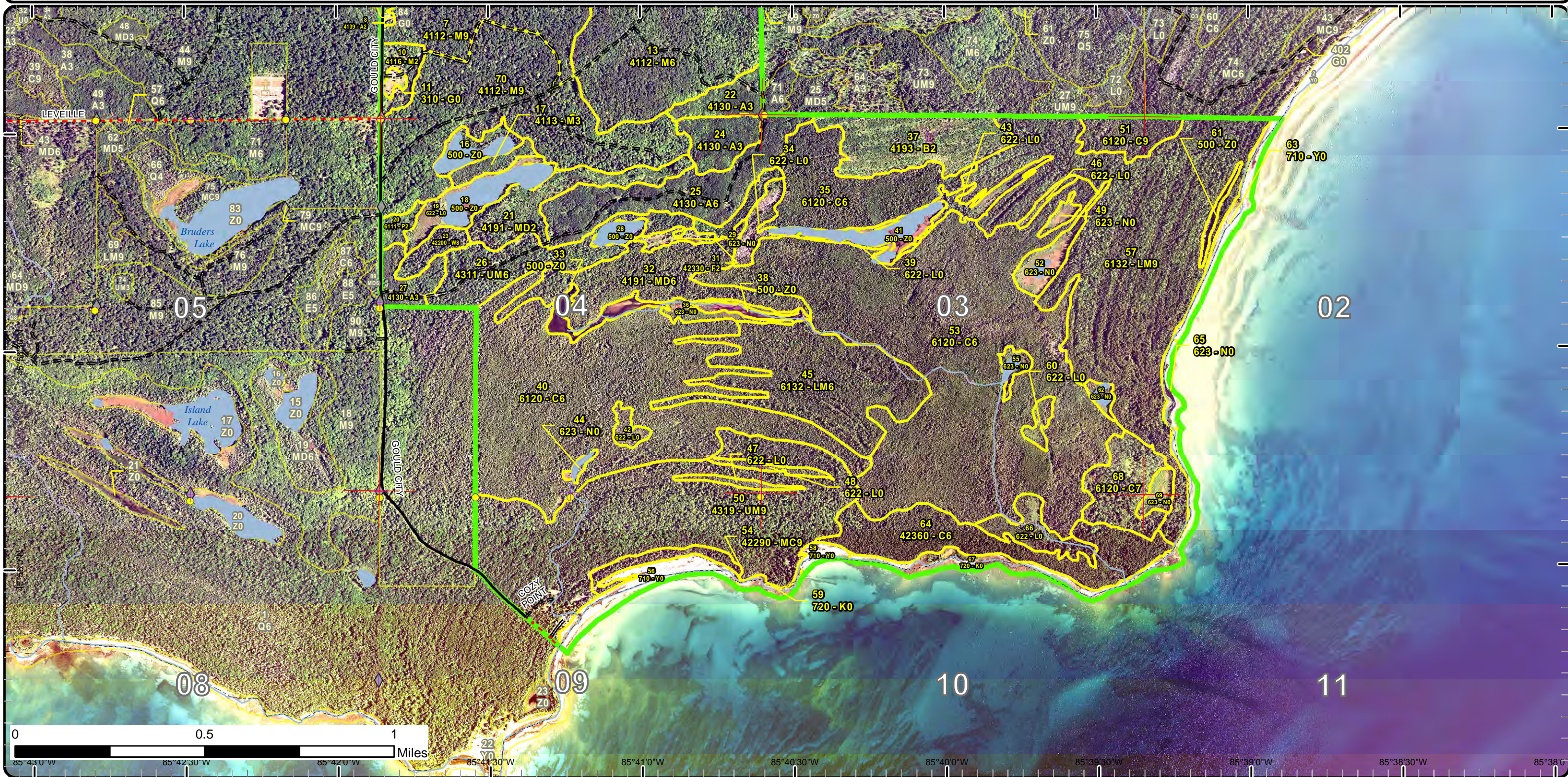


# Stand Boundary Map

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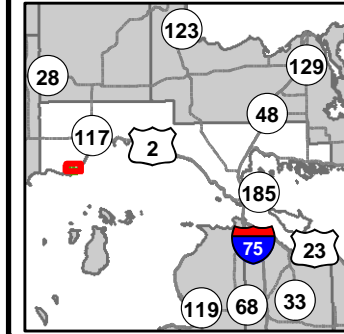
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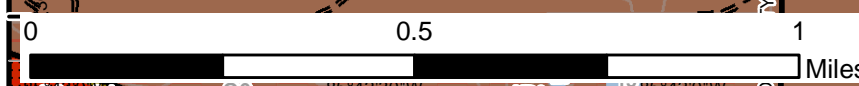
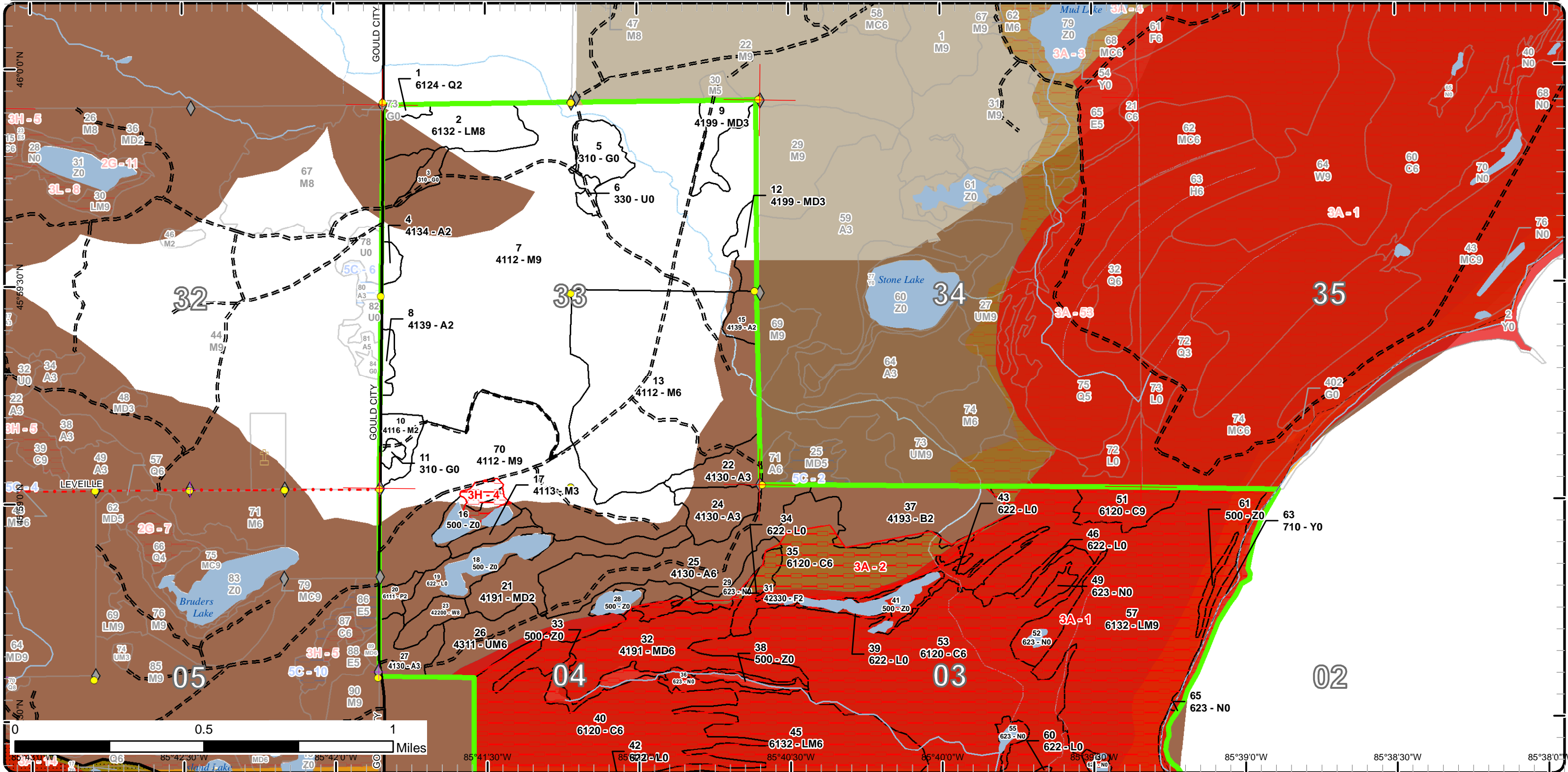


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- Unavailable
- 3A: Conservation values incompatible with harvest at this time
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Forest Habitat Core Interior
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks
- Verified Type 2 Old Growth
- Deer Winter Range
- Other Habitat Area

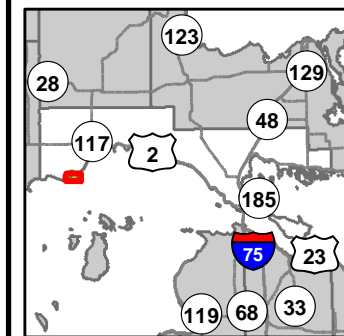


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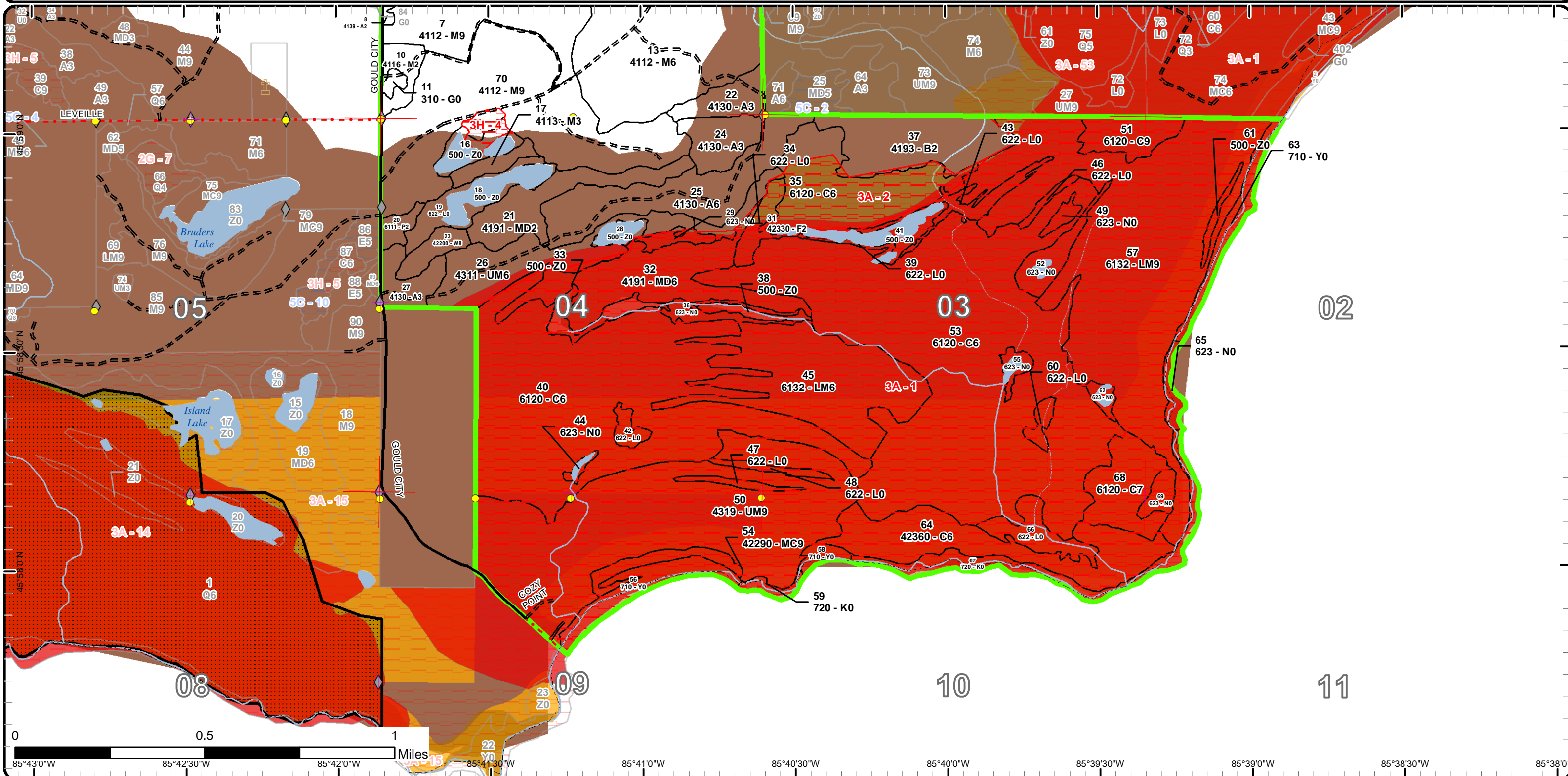


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	25	27	48	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Cedar	0	0	0	0	0	0	0	0	0	0	194	54	377	0	0	0	0	0	625
Exposed Rock	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	230	78	0	0	0	0	0	308
Lowland Shrub	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Marsh	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Mixed Upland Deciduous	0	0	27	19	0	0	0	0	0	50	0	0	0	0	0	0	0	0	96
Natural Mixed Pines	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	0	9	0	6	0	0	0	0	0	0	0	117	0	0	0	0	491	623
Paper Birch	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Sand, Soil	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Upland Mixed Forest	0	0	0	0	36	0	0	0	0	0	0	170	0	0	0	0	0	0	206
Upland Spruce/Fir	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
White Pine	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
<b>Total</b>	<b>232</b>	<b>3</b>	<b>107</b>	<b>46</b>	<b>96</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>58</b>	<b>194</b>	<b>454</b>	<b>572</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>491</b>	<b>2262</b>





## Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit  
Year of Entry: 2021

Acres of Harvest

Compartment 199  
Total Compartment Acres: 2,261

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
<b>Current</b>	0	0	0	0	0	63	0	0	0	<b>63</b>
<b>Next Step</b>	0	0	0	0	63	0	0	0	0	<b>63</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>63</b>	<b>63</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>126</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
63	45199063-Monitor	11.9	710 - Sand, Soil	Nonstocked		Unspecified	Monitoring	Herbicide Use	710 - Sand, Soil		Draft Field Boundary

**Habitat Cut:** No      **Site Condition:** Conservation Values

Prescription Monitor for phragmites and other invasives and spray if needed to remove.

Specs:

Next Step ; Pesticide, Hand Application

Treatments:

Acceptable

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 6 /27/2019

67	45199067-Monitor	51.1	720 - Exposed Rock	Nonstocked		Unspecified	Monitoring	Herbicide Use	720 - Exposed Rock		Draft Field Boundary
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**Habitat Cut:** No      **Site Condition:** Conservation Values

Prescription Monitor for phragmites or other invasives and spray if needed to remove.

Specs:

Next Step ; Pesticide, Other - Specify

Treatments:

Acceptable native plants

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 6 /27/2019

**Total Treatment Acreage Proposed: 63.0**



## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 199

Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	3A	3H
		With Condition	Not Available				
100	100	0	0	Aspen	0		
625	9	0	616	Cedar		616	
25	0	0	25	Exposed Rock		25	
19	19	0	0	Herbaceous Openland			
3	3	0	0	Low-Density Trees			
5	5	0	0	Lowland Aspen/Balsam Poplar			
3	3	0	0	Lowland Conifers			
307	28	0	279	Lowland Mixed Forest		279	
60	10	0	50	Lowland Shrub		50	
41	0	0	41	Marsh		41	
96	46	0	49	Mixed Upland Deciduous		49	
9	0	0	9	Natural Mixed Pines		9	
623	619	0	3	Northern Hardwood			3
41	39	0	2	Paper Birch	0	2	
33	0	0	33	Sand, Soil		33	
206	35	0	172	Upland Mixed Forest		172	
6	5	0	1	Upland Spruce/Fir		1	
51	23	0	28	Water		26	2
8	8	0	0	White Pine			
2,261	951	0	1,310	Total Forested Acres	0	1,304	6
	42%	0%	58%	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	3A: Conservation Values incompatible with harvest at this time	1,256	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> WDS ERA and DHA for pileated woodpecker, Blackburnian warbler, northern parula. Non-dedicated natural area Seiner's point along lakeshore.							



**Report 4 – Site Conditions**

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 199

Year of Entry: 2021

2	Unavailable	<b>3A: Conservation Values incompatible with harvest at this time</b>	48	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> DHA for pileated woodpecker, blackburnian warbler, northern parula</p>							
4	Unavailable	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments				
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## Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
1	6124 - Lowland Spruce-Fir	Sapling Medium	2.6	3	Immature	N/A	Part of old field to the north. Filling in with spruce.																																																															
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Pin Cherry	15	Sapling	2																																																																			
Quaking Aspen	15	Sapling	2																																																																			
2	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	27.7	101	51-80	N/A	Stand was shelterwood cut in 2005. Variable density residual over young saps. Heavier stocked residual areas are generally wetter.																																																															
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3	310 - Herbaceous Openland	Nonstocked	4.0			No	Opening with very few trees in the middle of it. Been used as a decking area for adjacent timber sales.																																																															
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4	4134 - Aspen, Spruce/Fir	Sapling Medium	3.2	16		N/A	South end semi-open. North end thick saps. Cut through old opening in 2004 with Juneberry Island timber sale.																																																															
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5	310 - Herbaceous Openland	Nonstocked	12.6			No	Old, once farmed (?) field. Scattered large open grown spruce.																																																															
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6	330 - Low-Density Trees	Nonstocked	3.3		Unspecified	No																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>7</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	347.8	110	51-80	N/A	Stand was beech salvaged in 2015. Generally lower basal areas of large diameter maple. Hold for the next cycle and check in 10 years for next treatment. Bedrock at or near surface. Many boulders strewn throughout stand. Most not big enough to harbor walking fern, but there are some documented in the area. Some scattered softwood in the stand, including cedar, white pine, etc. Most of stand has thick understory. Champion showy mountain ash is within the stand. Former champion yellow birch presided within the stand before it succumbed to its tragic demise in 2015.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log/Pole	14	110
Red Maple	15	Log/Pole	14	
Yellow Birch	15	Log/Pole	13	
Black Cherry	10	Log/Pole	12	

Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Beech	High	Variable	Sapling
Striped Maple	High	Variable	Tall Shrub
Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Mountain Ash	Low	Variable	Tall Shrub

<b>8</b>	4139 - Aspen, Mixed Deciduous	Sapling Medium	3.7	14		N/A	Very south end was an old borrow pit (gravel) - starting to fill in. Middle is thick saps. North end is semi-open. Was cut in 2004 as part of Juneberry Island timber sale.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Sapling	1	
Bigtooth Aspen	58	Sapling	1	14
White Spruce	6	Sapling/Pole	3	
Black Cherry	10	Sapling	1	

Canopy Species	Density	Avg. Height	Size
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub

<b>9</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	11.3	24	Immature	N/A	Some saps were left when cut, so some larger diameter trees present.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Sapling/Pole	3	
White Ash	15	Sapling/Pole	3	
Quaking Aspen	8	Sapling	2	
Balsam Poplar	40	Sapling	2	24
Black Cherry	10	Sapling	2	

Canopy Species	Density	Avg. Height	Size
Beech	High	10 - 20 feet	Sapling
Black Cherry	Medium	10 - 20 feet	Sapling
Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub

<b>10</b>	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	8.7	15	Immature	N/A	Opening that was cleaned up with timber sale (Juneberry Island) in 2004. Part of area is still non-forested.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Sapling	1	
Red Maple	10	Sapling	1	
Beech	10	Sapling	1	
Quaking Aspen	10	Sapling	1	
Bigtooth Aspen	10	Sapling	1	
Balsam Poplar	10	Sapling	1	
Black Cherry	29	Sapling	1	15



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
11	310 - Herbaceous Openland	Nonstocked	2.1			No	New stand added. Stand swapped from Forested to Non-Forested. Mainly open piece within old opening which was harvested and has regenerated. Patches of club moss found under few scattered trees.																																																						
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12	4199 - Other Mixed Upland Deciduous	Sapling Well	8.0	24	Immature	N/A	Shallow to bedrock. Several forested rock outcroppings. Very rocky!																																																						
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13	4112 - Maple, Beech, Cherry Association	Poletimber Well	143.1	86	51-80	N/A	Stand was thinned in 2014. Rocky in spots. More pole sized stand still lower basal area with beech dropped out. Check in 10 years. for A lone large healthy cedar near center of stand.																																																						
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Black Cherry	10	Pole/Log	8		Ironwood	Low	5 - 10 feet	Sapling																																																					
15	4139 - Aspen, Mixed Deciduous	Sapling Medium	6.4	13	Immature	N/A	Sugar maple saps are mainly residual saps from cutting. Regen is patchy. More level than stand to the north. Not as much rock																																																						
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16	500 - Water	Nonstocked	10.3			No	Pond with fluctuating water table.																																																						
17	4113 - R.Maple, Conifer	Sapling Well	6.3	36	81-110	N/A	Long narrow strip between 2 ponds. Cedar and ash are mostly along the edges.																																																						
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18	500 - Water	Nonstocked	10.8			No	Pond with fluctuating water table.																																
19	622 - Lowland Shrub	Nonstocked	9.4			No																																	
20	6111 - Lowland Balsam Poplar	Sapling Medium	4.7	13		N/A	Cut in 2005. Red maple heavily browsed. Lowland/upland.																																
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21	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	26.8	13	Immature	N/A	Cut in 2006. Big steep sand ridge! Was difficult to log in places. Several patches of overstory trees left pretty much intact. Some open sand still open from skid trails, but are regenerating in places. Regen mainly pin cherry.																																
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22	4130 - Aspen	Sapling Well	12.4	14	Immature	N/A	Has regenerated nicely! More rock than adjacent aspen stands to the south.																																
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23	42200 - Natural White Pine	Sawtimber Medium	7.6	80	81-110	N/A	Nice white pine stand. On flat between marsh and ridge. More poles to the east. Thinned in 2005.																																
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24	4130 - Aspen	Sapling Well	15.4	25	Immature	N/A	Another nice aspen stand.																																
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<b>25</b>	4130 - Aspen	Poletimber Well	47.7	36	201+	N/A	Aspen stand. Entering good merchantable size, but still averaging smaller diameter. Check in 10 years for harvest. Some semi open areas - some low ground, some high ground. Small borrow pit at curve in road from E-W to N-S.																																										
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<b>26</b>	4311 - Pine, Aspen Mix	Poletimber Well	36.4	35	111-140	N/A	Mixed stand of aspen and white pine and balsam. White pine is of varying age and size - mostly saplings and small poles. White pine mostly on west half. Balsam is on east half. Nice variable stand.																																										
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<b>27</b>	4130 - Aspen	Sapling Well	11.7	25	Immature	N/A	Stand split from adjacent stand - more aspen than white pine. Some semi-open areas. Nice aspen stand.																																										
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<b>28</b>	500 - Water	Nonstocked	4.3			No	Pond with fluctuating water table.																																										
<b>29</b>	623 - Emergent Wetland	Nonstocked	4.0			No																																											
<b>31</b>	42330 - Upland Fir	Sapling Medium	6.3	36	111-140	N/A	Small strip stand of residual from adjacent previous harvests.																																										
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<b>32</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	49.6	88	111-140	N/A	Transition buffer between younger stand and lower ground. . This is a good buffer left along ponds and seeps.																																										
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34	622 - Lowland Shrub	Nonstocked	8.4			No	Old beaver flooded area.																																									
35	6120 - Lowland Cedar	Poletimber Well	50.6	112	Unspecified	N/A	Intermittant creek flows through eastern tip.																																									
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36	623 - Emergent Wetland	Nonstocked	6.8			No	Patterson Creek flows through.																																									
37	4193 - Birch, Aspen	Sapling Medium	40.7	13	Immature	N/A	Sand ridges and low swales. Mixed regeneration, some ground is very wet with little regen. Intermittant stream flows (north to south) through stand on east end.																																									
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38	500 - Water	Nonstocked	4.2			No	Pond. Patterson Creek flows through stand.																																									
39	622 - Lowland Shrub	Nonstocked	2.0			No	May have lowland shrubs here. Edges around pond.																																									
40	6120 - Lowland Cedar	Poletimber Well	194.3	95	141-170	N/A	Large stand of cedar with varying ground. Ridge and swale over parts of the stand.																																									
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41	500 - Water	Nonstocked	11.0			No	Pond with fluctuating water table.																																									
42	622 - Lowland Shrub	Nonstocked	4.0		Unspecified	No																																										
43	622 - Lowland Shrub	Nonstocked	10.0			No	Fluctuating water table.																																									
44	623 - Emergent Wetland	Nonstocked	1.6			No	Half water, half emergent wetland. Headwaters of Newton Creek.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>45</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	77.5	112	141-170	N/A	In between upland and lowland. Basically low ridges interspersed with transition ground cedar. Some tag alder swales here too.																																														
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<b>46</b>	622 - Lowland Shrub	Nonstocked	2.3			No	Swale between ridges.																																														
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<b>48</b>	622 - Lowland Shrub	Nonstocked	3.5			No	Swale between ridges.																																														
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<b>49</b>	623 - Emergent Wetland	Nonstocked	2.8			No	Fluctuating water table.																																														
<b>50</b>	4319 - Mixed Upland Forest	Sawtimber Well	169.7	108	141-170	N/A	Ridge and swale. Mainly upland. Nice spruce. WP supercanopy. Variable stand.																																														
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<b>51</b>	6120 - Lowland Cedar	Sawtimber Well	15.0	113	141-170	N/A	Nice looking stand along Catarac River. Doesn't appear too wet. Old fence still evident in places along north section line (from Bethlehem Steel days).																																														
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<b>52</b>	623 - Emergent Wetland	Nonstocked	10.3			No	Fluctuating water table.																																														





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
<b>53</b>	6120 - Lowland Cedar	Poletimber Well	286.1	112	141-170	N/A	Low cedar stand. Small areas of blow down. Is less dense along southern stand boundary, and with more windthrown or windblown trees and more tag alder.																																									
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<b>54</b>	42290 - Natural Mixed Pine	Sawtimber Well	8.9	78	111-140	N/A	Sandy ridges with some steep ridges. Includes first several ridges from lakeshore.																																									
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<b>55</b>	623 - Emergent Wetland	Nonstocked	3.6			No	Fluctuating water table. Creek(s) flow through here.																																									
<b>56</b>	710 - Sand, Soil	Nonstocked	17.5		Unspecified	No	Open sand beach and dunes. Includes part of Newton Township park.																																									
<b>57</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	202.0	105	141-170	N/A	White birch over cedar. Ridge and swale. Blowdown here and there. Pine more to the north. White birch hanging in there for its age.																																									
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<b>58</b>	710 - Sand, Soil	Nonstocked	3.9			No	Sandy beach.																																									
<b>59</b>	720 - Exposed Rock	Nonstocked	3.3			No	Cobble beach. Cozy Point.																																									
<b>60</b>	622 - Lowland Shrub	Nonstocked	3.6			No	Intermittant stream flows through.																																									
<b>61</b>	500 - Water	Nonstocked	2.6			No	Swale between old beach ridges close to the shore. Fluctuating water table.																																									
<b>62</b>	623 - Emergent Wetland	Nonstocked	2.9			No	Fluctuating water table. Stream flows out of to the east.																																									
<b>63</b>	710 - Sand, Soil	Nonstocked	11.9		Unspecified	No	Sandy beach and dunes.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
<b>64</b>	42360 - Upland Cedar	Poletimber Well	53.9	109	141-170	N/A	Upland cedar with spruce and white birch overstory. Variable density of balsam understory.																																																	
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<b>65</b>	623 - Emergent Wetland	Nonstocked	4.4		Unspecified	No	needed to switch to forested then back to non-forested to change the level 3 call																																																	
<b>66</b>	622 - Lowland Shrub	Nonstocked	13.2			No	Tag alder area of Patterson Creek.																																																	
<b>67</b>	720 - Exposed Rock	Nonstocked	22.0		Unspecified	No	Cobble, rocky, sandy beach. Includes Point Patterson.																																																	
<b>68</b>	6120 - Lowland Cedar	Sawtimber Poor	25.1	110	1-50	N/A	Stand has been flooded out. Most of the deciduous trees are dead and gone.																																																	
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<b>69</b>	623 - Emergent Wetland	Nonstocked	4.9			No	Low, wet area. Flucuating water table. Not too wet, suprisingly, for early May. Adjacent ash stand shows water marks up to 2' on the trees.																																																	
<b>70</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	117.0	110	51-80	N/A	Areas of log/pole, and areas of pole/log. Bedrock at or near surface. Most of stand has beech understory. Overall lower basal areas after the beech has dropped out. Some clump areas. Best to leave for next ten years and evaluate then for potential harvest.																																																	
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