



# Compartment Review Presentation

## Sault Ste. Marie Forest Management Unit

Compartment 45101

Entry Year 2020

Acreage: 2,169

County Mackinac

Management Area: Lake Michigan Shoreline

---

**Revision Date:** 2018-07-23

**Stand Examiner:** Cory Luoto

### Legal Description:

T42N-R6W Sections 13, 22, 23, 24, & 25; Moran Township

### Identified Planning Goals:

Compartment 101 surrounds Little Brevort Lake and has within it, two State Forest Campgrounds, and 542 acres as a designated Natural Area. This compartment is within the Lake Michigan Shoreline Management Area. The predominate timber type is northern hardwood, but there is large stands of cedar, aspen, birch, hemlock, white pine, spruce, balsam fir, and several large grassy openings. The hardwood has been extensively managed in the past and will continue to be so in the future. Currently there are two MWR stands within the compartment that were harvested in December 2017. The Natural Area surrounding the lake and campgrounds isn't managed for timber; rather it is left as a pristine recreational area that doesn't allow any motorized traffic.

### Soil and topography:

The soils making up the compartment are primarily Wallace sands and Markey and Carbondale mucks. The Wallace sands are typically found in the hardwood stands and the dune areas near Lake Michigan. The mucks are associated with the cedar and other lowland species.

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

The compartment is contiguous with state land to the north and is bordered by federal land to the east. The western and southern boundaries of the compartment are bordered by private land holdings. Also the SWSW forty of section 13 is in private ownership.

### Unique Natural Features:

Within the Natural Area there are two hemlock trees that are over four hundred years old. There is a potential for some rare, threatened, and special concern plant and animal species to inhabit the compartment. Stands to be managed will be checked for species of concern. Management will be modified if species are found within those stands per management guidelines for that species.

### Archeological, Historical, and Cultural Features:

Section 25 contains an archeological site.

### Special Management Designations or Considerations:

The southern area of the compartment lies within a Critical Dune Area and there is no harvesting prescribed in this area. Little Brevort Lake Natural Area encompasses 542 acres surrounding Little Brevort Lake.

### Watershed and Fisheries Considerations:

The northern region of this compartment contains the Little Brevoort River which serves as a tributary to Little Brevoort Lake and the Brevoort River. The Little Brevoort River is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for the Little Brevoort 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 stands 8, 18, and 25). The western region of this compartment contains an unnamed tributary which flows southwest towards the town of Brevort and serves as a tributary to Lake Michigan. The unnamed tributary is a non-designated stream less than 50' width therefore, a minimum of a 100' plus 5' per 1% increase in slope, buffer is recommended. The south-central region of this compartment contains Little Brevoort Lake. A 100', plus 5' per 1% increase in slope, buffer is recommended to protect shoreland areas adjacent to Little Brevoort Lake. The Brevoort River flows easterly from Little Brevoort Lake and serves as a tributary to Boedine Bay in Brevoort Lake. The Brevoort River is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for the Brevoort 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.

### **Wildlife Habitat Considerations:**

This compartment is on the east end of Lake Michigan Shoreline MA, which is a long MA extending west into Delta County. Although this compartment is close to the Lake Michigan shoreline, it does not extend out to the shoreline. Piping plover and white-tailed deer are featured species for the MA. The compartment contains a mix of types ranging from northern hardwoods to hemlock, white pine, lowland conifers (particularly cedar), and mixes of types. Little Brevoort Lake is southcentral, and the Little Brevoort River flows through the compartment. A Natural Area is located around Little Brevoort Lake and covers most of the southern part of the compartment. Wildlife habitat objectives include promoting diversity in northern hardwoods and maintaining hard and soft mast sources, maintaining cover in conifer stands including hemlock and cedar, and protecting riparian areas. Wildlife benefitting from this management include white-tailed deer, bear, marten, hawks, neotropical migratory birds, and other species.

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

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 50 and 100 feet. The Silurian Point Aux Chenes Shale and Engadine Group subcrop below the glacial drift. The Engadine is quarried for stone/limestone in the area. Gravel pits are not located in the area and potential appears to be limited. There is no current economic oil and gas production in the UP.

### **Vehicle Access:**

Vehicle access is good along the Worth Road, which is an all season road. The two roads leading into the campgrounds are good gravel roads. Section 13 is accessible by the East Boundary Road and a good two track that goes north from the east side of the private forty. There isn't any motorized vehicle traffic permitted in the Natural Area except for the two campground roads.

### **Survey Needs:**

No survey needs at this time.

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

There is a campground located on the north shore and an access site on the south shore of Little Brevoort Lake. The north unit has twenty sites and small boat launch and the south access area has a small boat launch. Fishing is the predominate activity within the compartment. With Little Brevoort Lake being entirely within the Designated Natural Area, using a boat motor is prohibited. The Switchback Ridge foot trail starts at the north campground follows the lakeshore to the south campground and then makes a loop to Brevoort Lake on federal land. The entire trail is approximately 2.5 miles long. The north campground has a flowing well that is heavily utilized by the locals as a source of drinking water.

### **Fire Protection:**

This isn't a high fire danger area. If a fire was to occur in the Natural Area Minimal Impact Suppression Tactics (MIST) would be used.

### **Additional Compartment Information:**

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

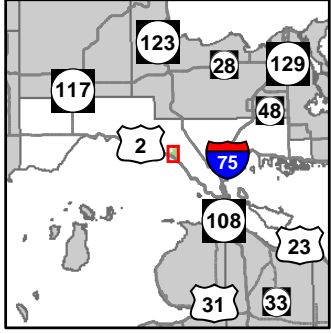
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

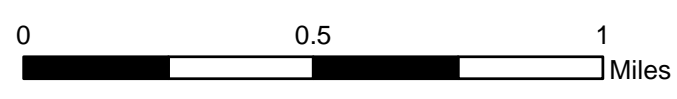
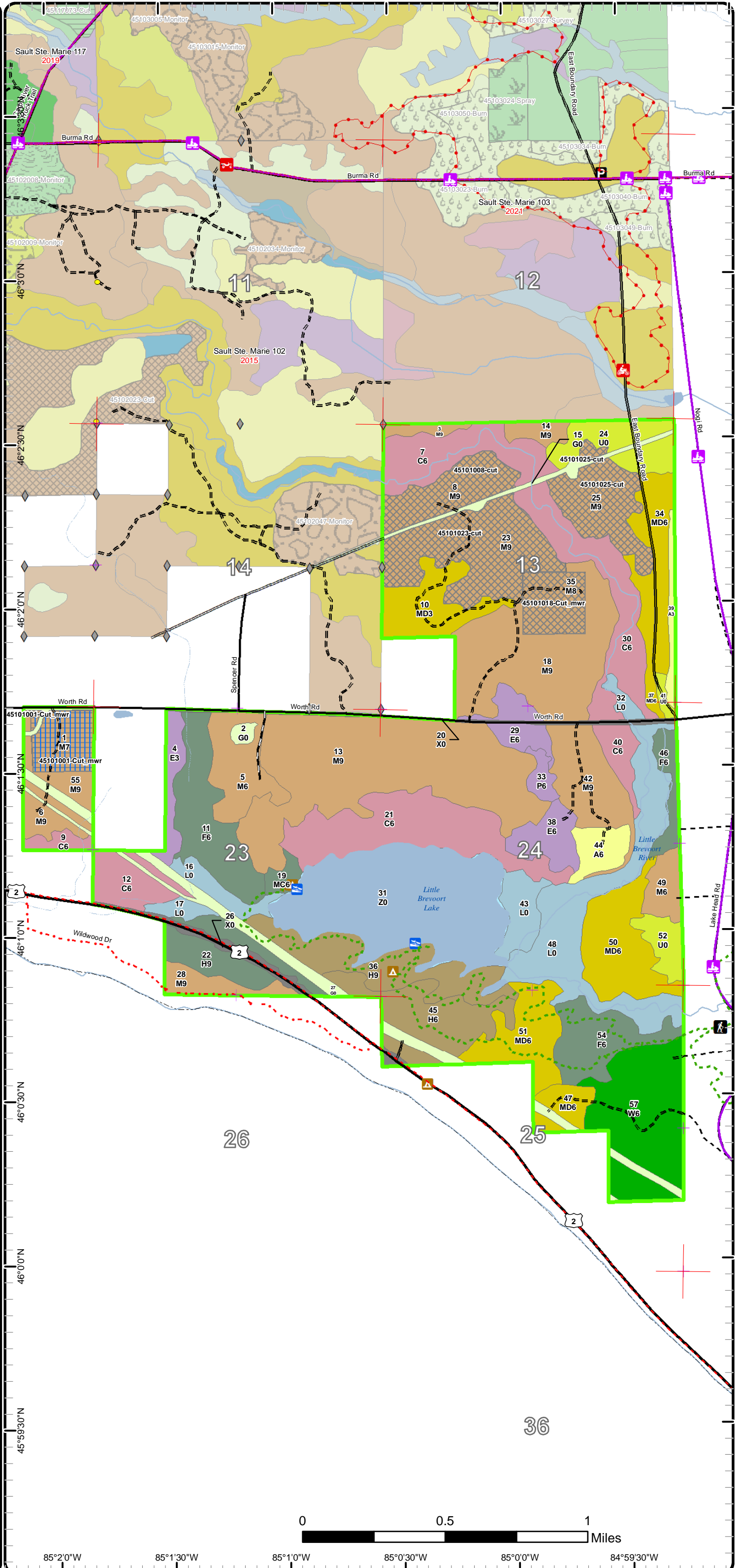
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 101  
 T42N,R06W, Sec. 13, 22-25  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Lake Michigan Shoreline  
 YOE: 2020  
 Acres: 2,169 GIS Calculated  
 Examiner: Cory Luoto  
 Map Revised: 12/7/2018  
 Map Phase: Post Review



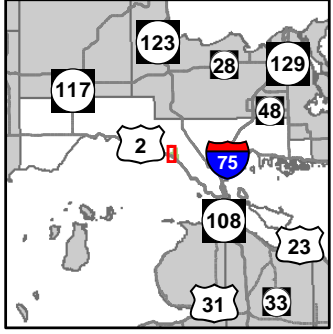
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Hiking Trails
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Boating Access Site
- Campground
- Trailhead
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes



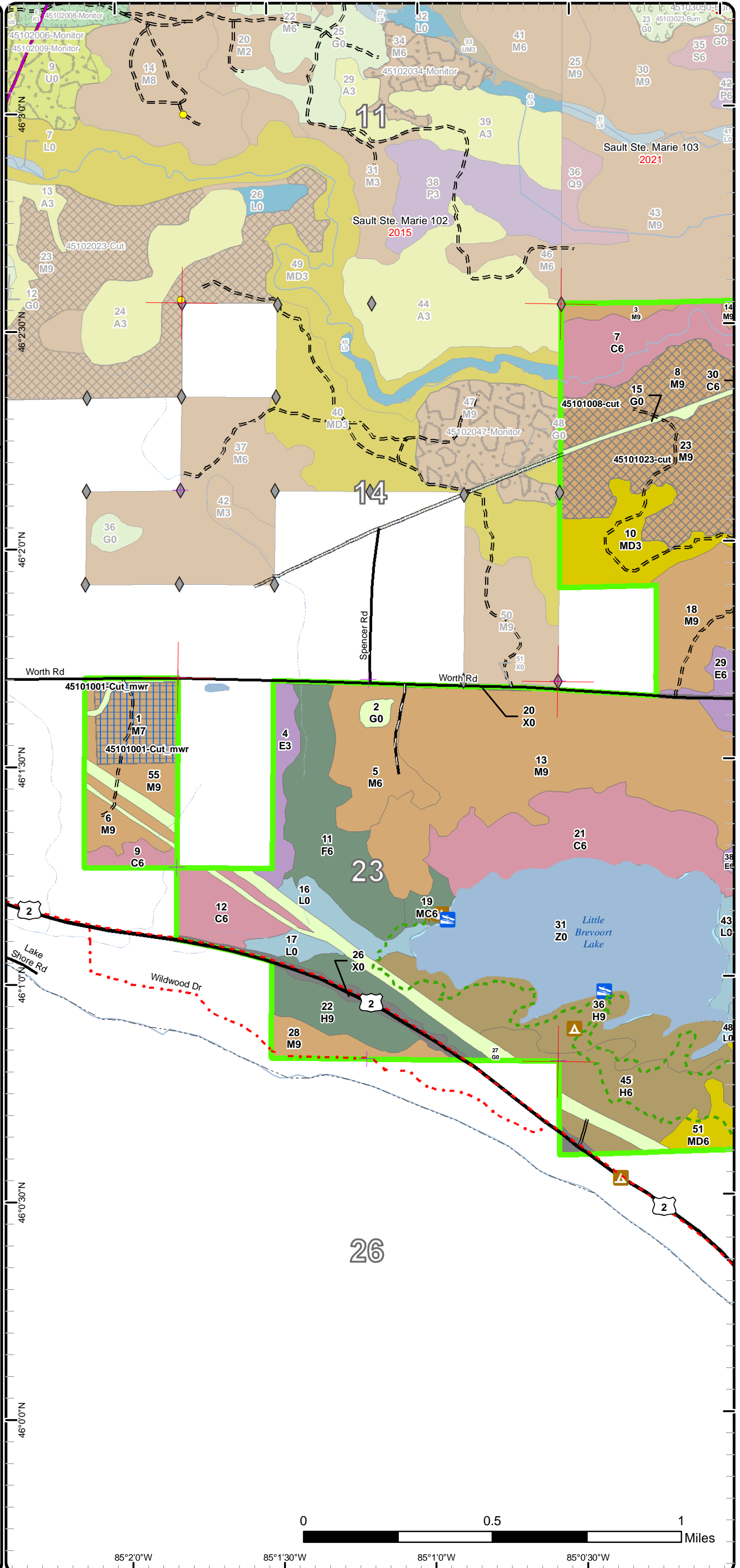
85°2'0"W    85°1'30"W    85°1'0"W    85°0'30"W    85°0'0"W    84°59'30"W

# Cover Type & Treatments Map

Compartment: 101  
 T42N,R06W, Sec. 13, 22-25  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Lake Michigan Shoreline  
 YOE: 2020  
 Acres: 2,169 GIS Calculated  
 Examiner: Cory Luoto  
 Map Revised: 12/7/2018  
 Map Phase: Post Review

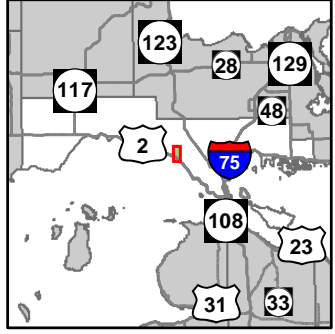


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Boating Access Site
- ▲ Campground
- ★ Trailhead
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- Lakes

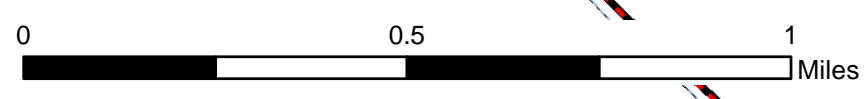
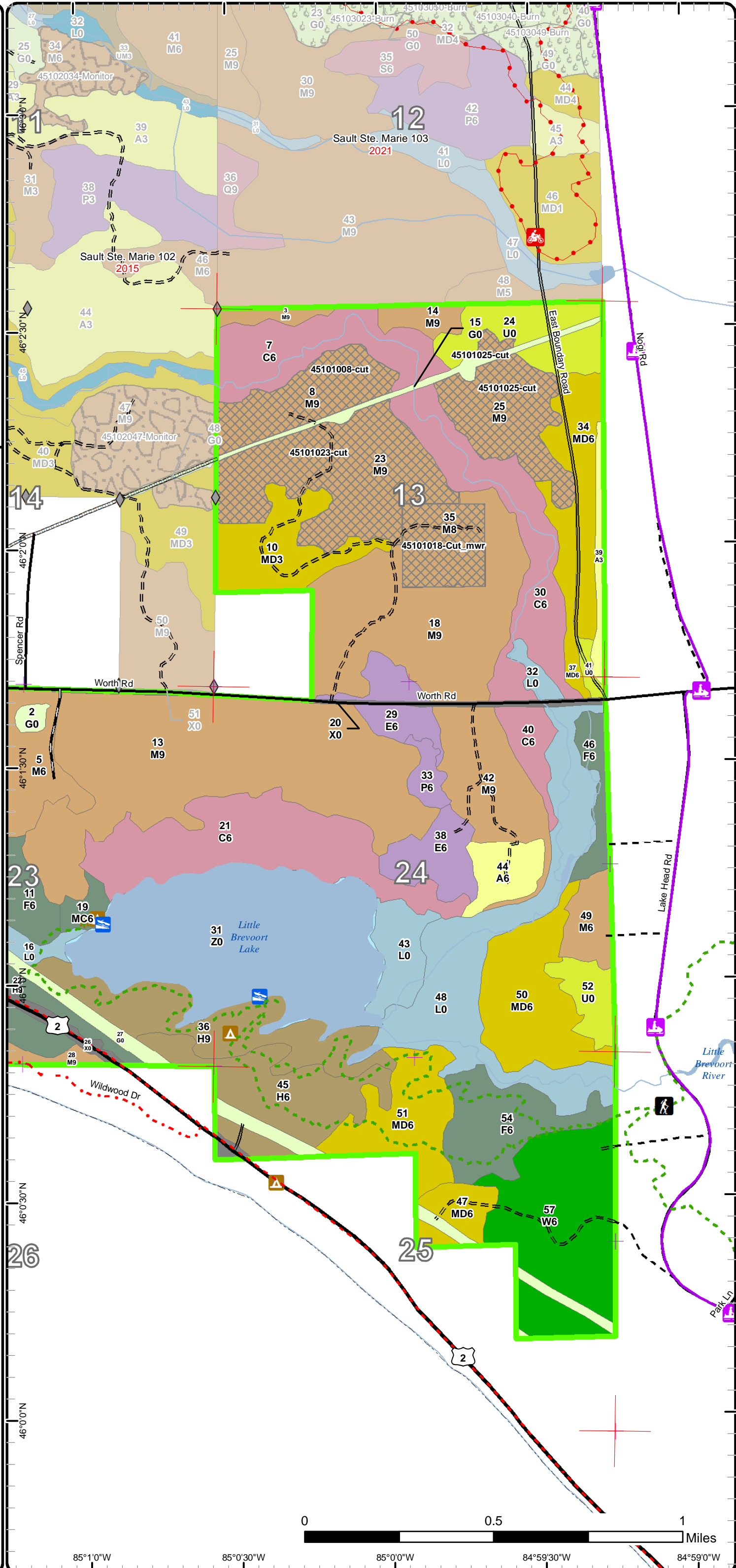


# Cover Type & Treatments Map

Compartment: 101  
 T42N,R06W, Sec. 13, 22-25  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Lake Michigan Shoreline  
 YOE: 2020  
 Acres: 2,169 GIS Calculated  
 Examiner: Cory Luoto  
 Map Revised: 12/7/2018  
 Map Phase: Post Review



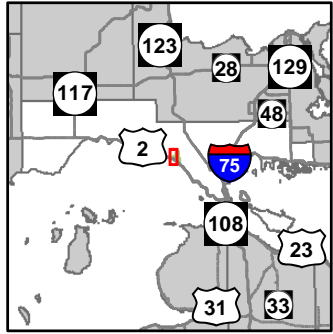
- Miris Corners
- Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- Hiking Trails
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Boating Access Site
- Campground
- Trailhead
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes



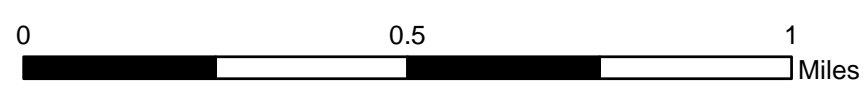
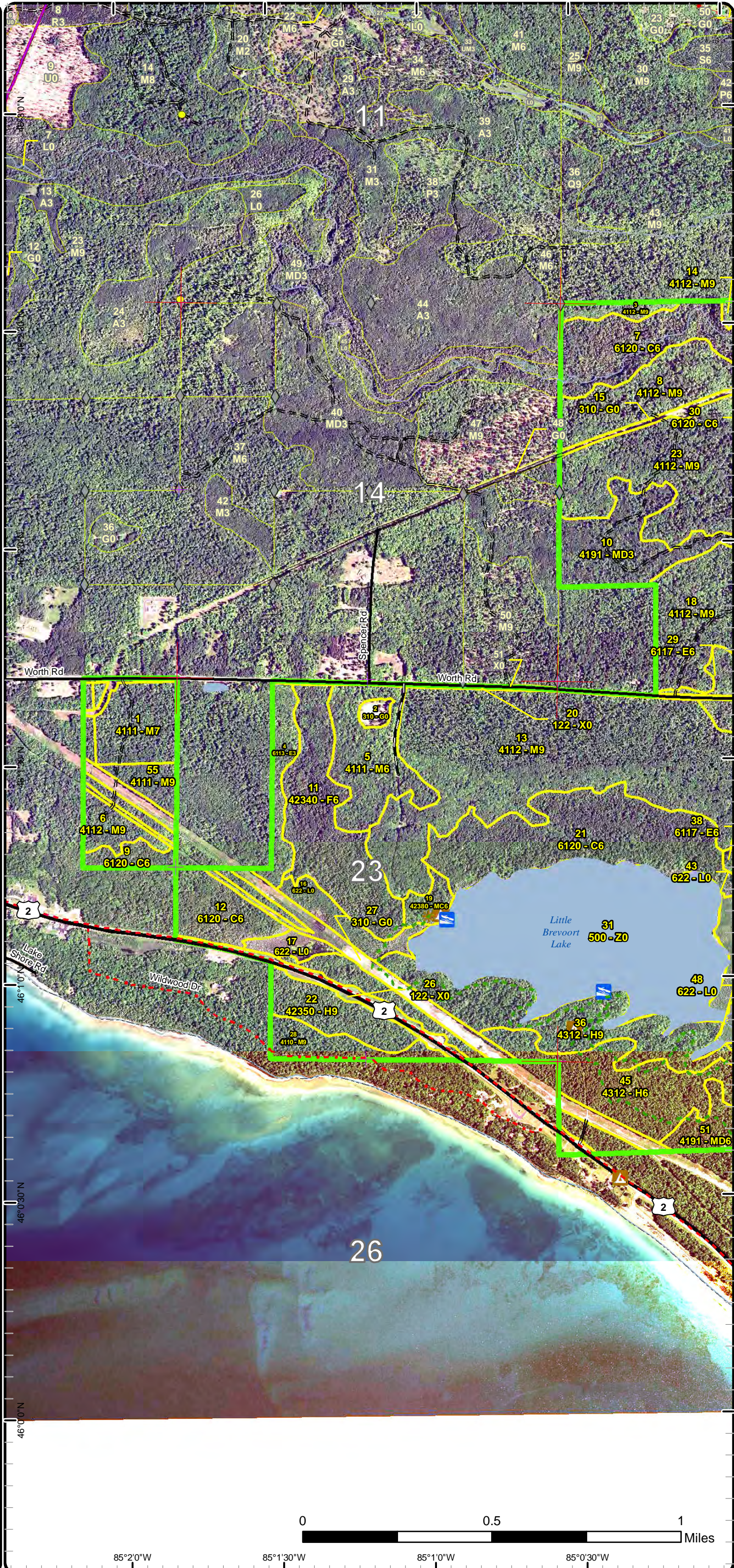
85°10'W    85°0'30"W    85°0'0"W    84°59'30"W    84°59'0"W

# Stand Boundary Map

Compartment: 101  
 T42N,R06W, Sec. 13, 22-25  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Lake Michigan Shoreline  
 YOE: 2020  
 Acres: 2,169 GIS Calculated  
 Examiner: Cory Luoto  
 Map Revised: 12/7/2018  
 Map Phase: Post Review



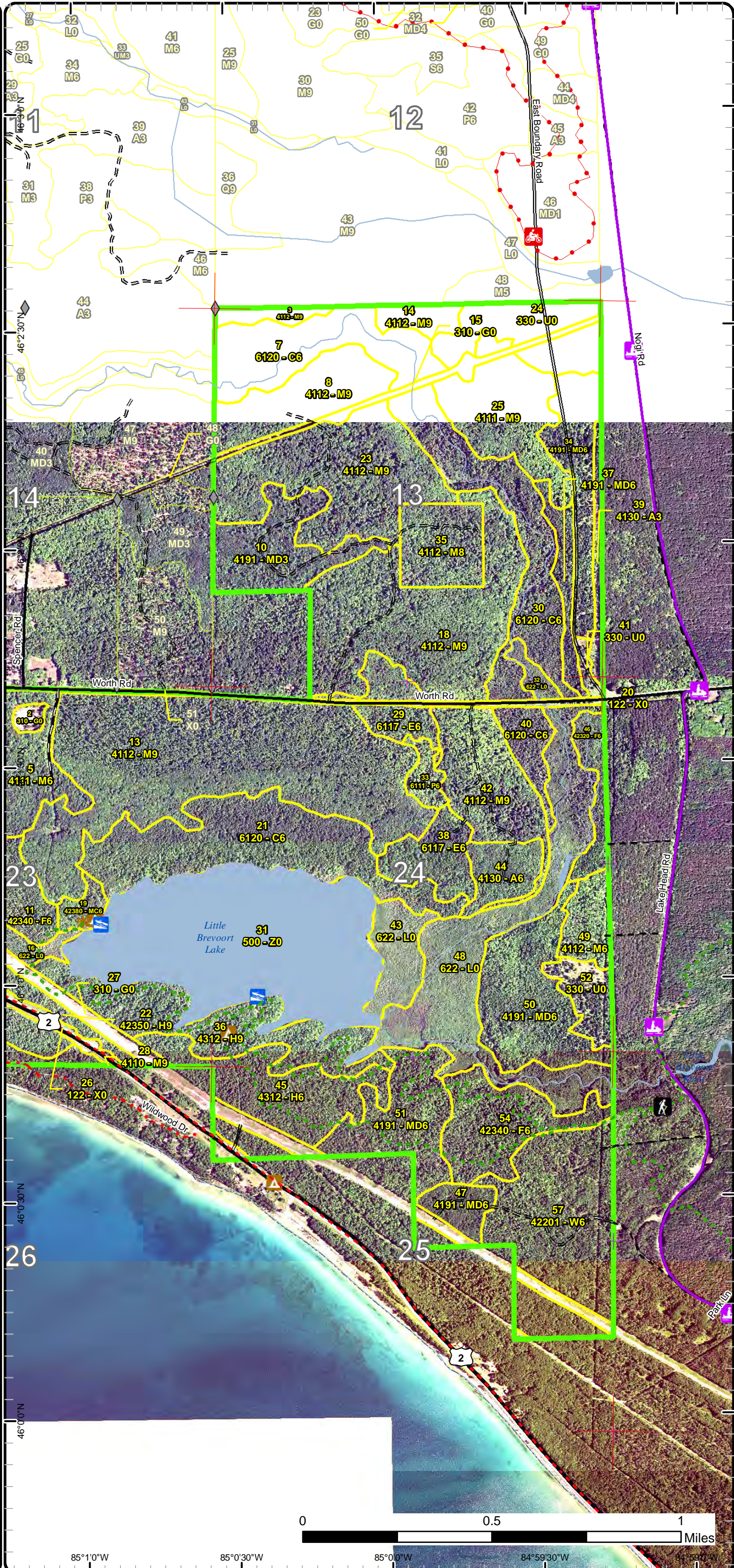
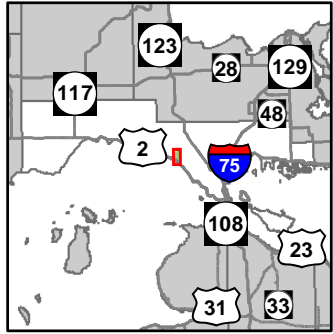
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Boating Access Site
- ▲ Campground
- ★ Trailhead
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub



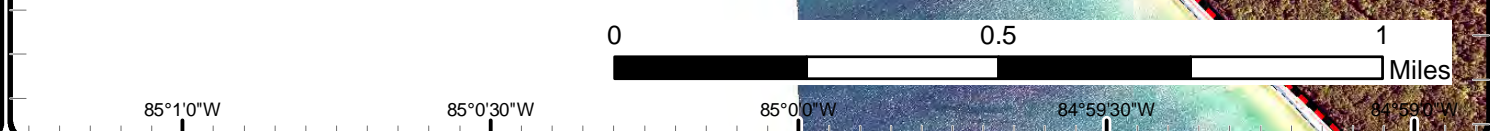
85°20'W      85°1'30"W      85°1'0"W      85°0'30"W

# Stand Boundary Map

Compartment: 101  
 T42N,R06W, Sec. 13, 22-25  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Lake Michigan Shoreline  
 YOE: 2020  
 Acres: 2,169 GIS Calculated  
 Examiner: Cory Luoto  
 Map Revised: 12/7/2018  
 Map Phase: Post Review

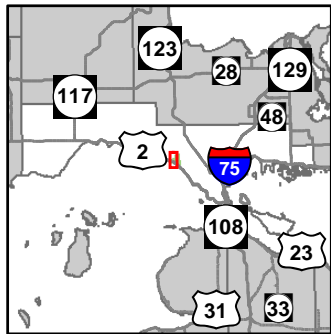


- Miris Corners
- Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- Hiking Trails
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Boating Access Site
- Campground
- Trailhead
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

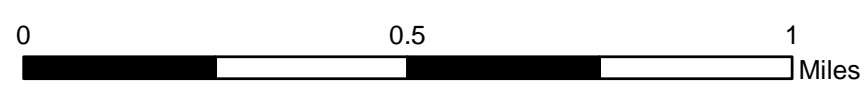
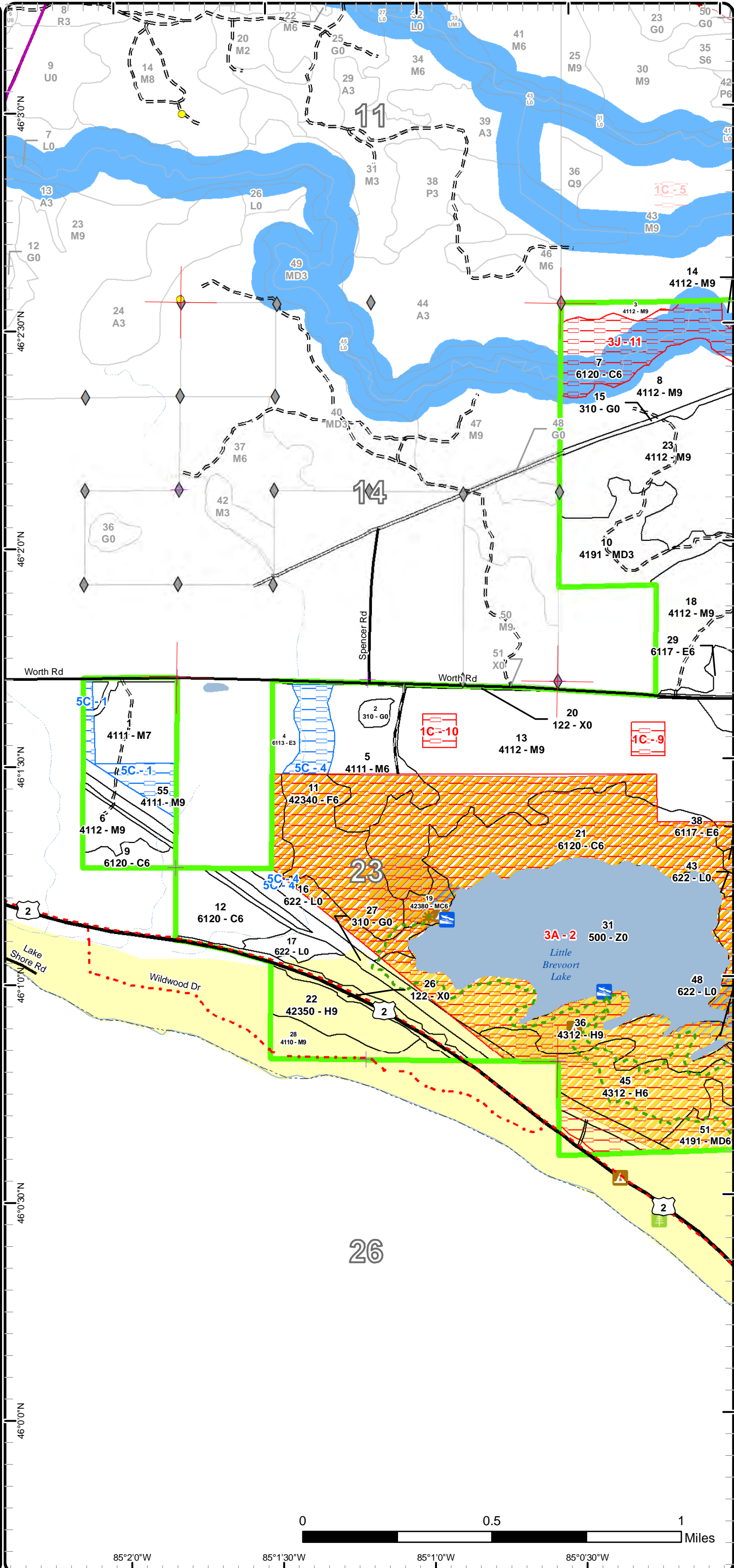


# Special Conservation Areas & Site Conditions Map

Compartment: 101  
 T42N,R06W, Sec. 13, 22-25  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Lake Michigan Shoreline  
 YOE: 2020  
 Acres: 2,169 GIS Calculated  
 Examiner: Cory Luoto  
 Map Revised: 12/7/2018  
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Designated Hiking Trails
- Designated Bicycle Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Boating Access Site
- Campground
- \* Trailhead
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Critical Dunes
- Natural Areas Legally Dedicated
- ♣ Scenic Turnouts
- Cold Water Streams
- High Priority Trout Stream Buffer
- State Forest Campground

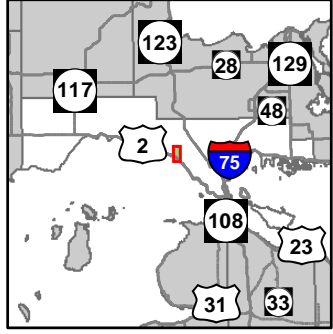


85°2'0"W      85°1'30"W      85°1'0"W      85°0'30"W

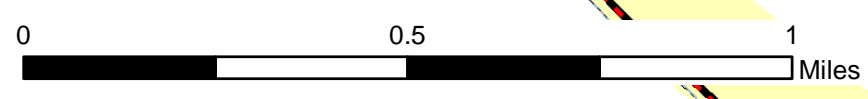
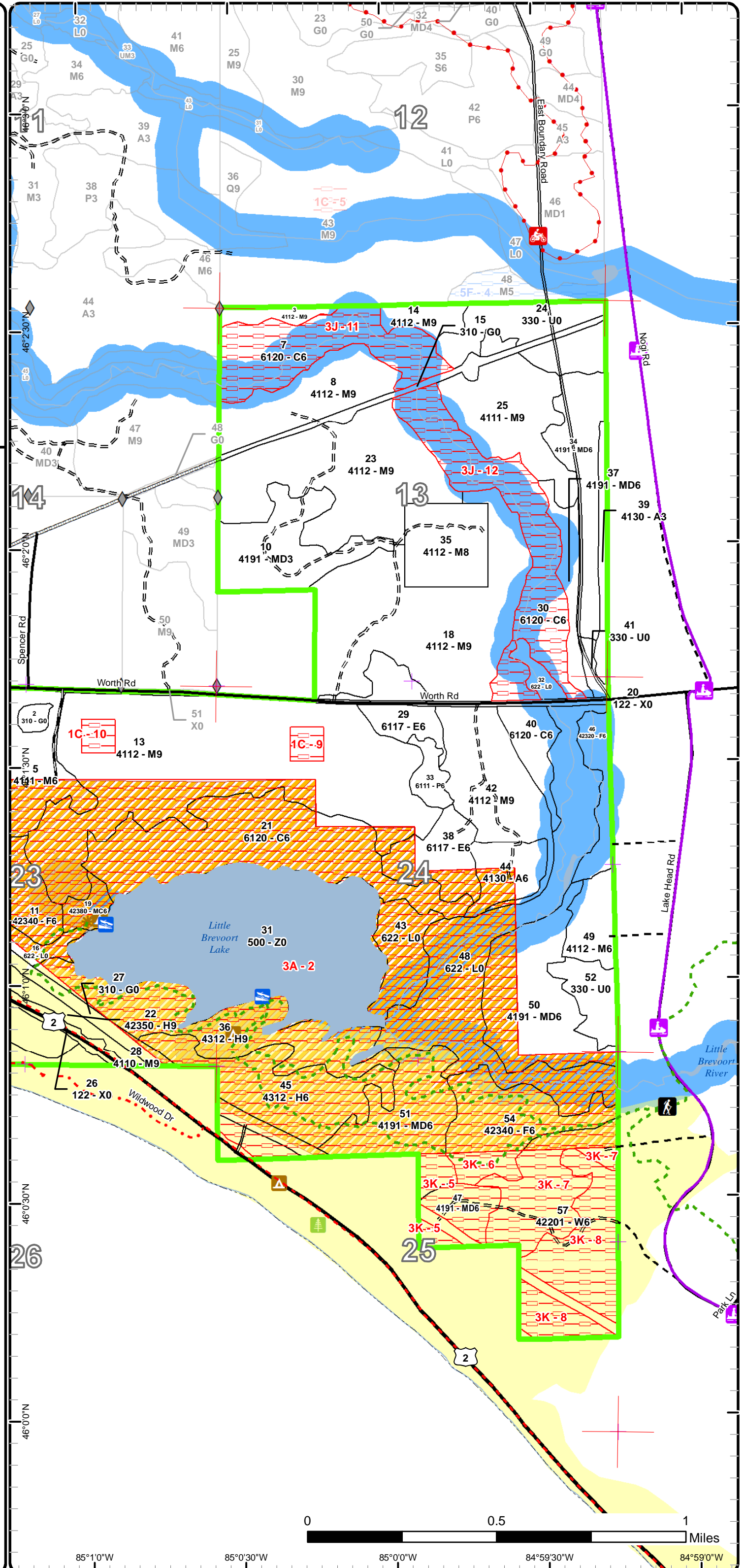


# Special Conservation Areas & Site Conditions Map

Compartment: 101  
 T42N,R06W, Sec. 13, 22-25  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Lake Michigan Shoreline  
 YOE: 2020  
 Acres: 2,169 GIS Calculated  
 Examiner: Cory Luoto  
 Map Revised: 12/7/2018  
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Hiking Trails
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Boating Access Site
- Campground
- Trailhead
- Pipeline
- Compartment Boundary
- Unavailable
- 1C: Other dept or div proc/practices
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- Stand Boundaries
- Critical Dunes
- Natural Areas Legally Dedicated
- Scenic Turnouts
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- State Forest Campground



85°10'W    85°0'30"W    85°0'0"W    84°59'30"W    84°59'0"W

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	10	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Cedar	0	0	0	0	0	0	0	0	0	0	52	122	0	94	0	0	0	0	268
Hemlock	0	0	0	0	0	0	0	0	0	0	58	107	0	0	0	0	0	0	165
Herbaceous Openland	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Low-Density Trees	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Lowland Aspen/Balsam Poplar	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Deciduous	0	0	0	17	25	0	22	0	0	0	0	0	0	0	0	0	0	0	64
Lowland Shrub	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
Mixed Upland Deciduous	0	0	0	43	36	15	59	62	0	0	0	0	0	0	0	0	0	0	215
Northern Hardwood	0	0	0	0	0	0	41	292	143	254	0	0	0	0	0	0	0	0	730
Upland Conifers	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Upland Spruce/Fir	0	0	0	0	16	0	106	0	0	0	0	0	0	0	0	0	0	0	122
Urban	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Water	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
White Pine	0	0	0	0	0	0	0	95	0	0	0	0	0	0	0	0	0	0	95
<b>Total</b>	<b>467</b>	<b>10</b>	<b>0</b>	<b>60</b>	<b>96</b>	<b>23</b>	<b>195</b>	<b>103</b>	<b>387</b>	<b>143</b>	<b>364</b>	<b>229</b>	<b>0</b>	<b>94</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2171</b>



## Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit  
Year of Entry: 2020

Acres of Harvest

Compartment 101  
Total Compartment Acres: 2,169

Commercial Harvest - 240  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood	0	212	0	29	0	0	0	0	0	241
<b>Total</b>	<b>0</b>	<b>212</b>	<b>0</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>241</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	241	0	0	0	0	0	0	0	0	241
Next Step	0	30	0	0	0	30	210	0	0	271
<b>Total</b>	<b>241</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>210</b>	<b>0</b>	<b>0</b>	<b>511</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	45101001-Cut_mwr	28.5	4111 - S.Maple, Hard Mast Association	Sawtimber Poor	81	1-50	Harvest	Seed Tree	411 - Northern Hardwood	Even-Aged	Field Boundary

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

Prescription Seed Tree harvest conducted by Mike Walter's research team. This stand will be harvested leaving all tops greater than 8".

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable northern hardwood

Regen:OtherComment:

Proposed Start Date: 10/1 /2016

8	45101008-cut	40.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
---	--------------	------	---	----------------	----	---------	---------	-----------------------	-------------------------	-------------	----------------------

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

Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all juneberry and

Specs: conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern Hardwood

Regen:OtherComment:

Proposed Start Date: 10/1 /2019

18	45101018-Cut_mwr	30.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	93	81-110	Harvest	Group Selection	411 - Northern Hardwood	Uneven-Aged	Field Boundary
----	------------------	------	---	----------------	----	--------	---------	-----------------	-------------------------	-------------	----------------

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

Prescription Group Selection harvest marked to the specifications of the Mike Walter's Research team. Stand will have a follow up treatments herbicide and

Specs: scarification.

Next Step Pesticide, Hand Application; SitePrep, Scarification

Treatments:

Acceptable northern hardwood

Regen:OtherComment:

Proposed Start Date: 10/1 /2016

23	45101023-cut	90.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
----	--------------	------	---	----------------	----	---------	---------	-----------------------	-------------------------	-------------	----------------------

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

Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all juneberry and

Specs: conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern Hardwoods

Regen:OtherComment:

Proposed Start Date: 10/1 /2019



S  
t  
a  
n  
d

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
25	45101025-cut	50.4	4111 - S.Maple, Hard Mast Association	Sawtimber Well	76	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all juneberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern Hardwood

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

---

**Total Treatment Acreage Proposed: 240.5**

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 101

Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions					
		With Condition				5C	1C	3A	3J	3K	
29	23	0		7	Aspen			7			
268	55	0		213	Cedar			92	121		
165	41	0		124	Hemlock			124			
64	17	0		47	Herbaceous Openland			47			
58	58	0		0	Low-Density Trees						
8	8	0		0	Lowland Aspen/Balsam Poplar						
64	45	0		18	Lowland Deciduous			18			
155	53	0		103	Lowland Shrub			103			
215	130	0		85	Mixed Upland Deciduous			63		22	
729	558	14		158	Northern Hardwood	14	10	148			
8	0	0		8	Upland Conifers			8			
122	16	15		92	Upland Spruce/Fir	15		83		8	
28	28	0		0	Urban						
161	0	0		161	Water			161			
95	0	0		95	White Pine			8		88	
2,169	1,031	28		1,110	Total Forested Acres	28	10	860	121	118	
	48%	1%		51%	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	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	748	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Little Brevort Lake Natural Area							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Compartment: 101

Cory Luoto : Examiner

Year of Entry: 2020

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3K: Rare or unique landforms	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3K: Rare or unique landforms	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3K: Rare or unique landforms	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3K: Rare or unique landforms	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							

**Report 4 – Site Conditions**

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 101

Year of Entry: 2020

10	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)</p>							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	53	2F: Too steep	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	68	2F: Too steep	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							





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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>Little Brevoort Lake North Campground</b>	Concentrated Recreation Area	State Forest Campground	<b>Error</b>	19
<b>Comments</b> boat launch, day use area				
<b>Little Brevoort Lake South Campground</b>	Concentrated Recreation Area	State Forest Campground	<b>Error</b>	23
<b>Comments</b> boat launch				



## 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	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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.
HCVA	Critical Dunes	Critical dune areas are established via the public legislative process, and governed by Part 353, Sand Dune Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). The current distribution of designated critical dunes is established by the DEQ 1989 Atlas of Critical Dune Areas.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4111 - S.Maple, Hard Mast Association	Sawtimber Poor	29.0	81	1-50	Stand was part of Hallowed Hardwood MWR. It was a seed tree harvest.
3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.4	77	81-110	Part of a much larger stand in the comp to the north. This stand should be thinned when that on is. Lower basal area in some areas because the beech is all dead.
4	6113 - Lowland Maple	Sapling Well	17.3	28	Unspecified	Wet maple stand with areas of tag alder.
5	4111 - S.Maple, Hard Mast Association	Poletimber Well	40.7	62	81-110	Nice younger maple stand, the area outside of the Natural Area could be thinned.
6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	16.8	74	81-110	Similar stand as the one to the north however a fair amount of white pine and cedar to the south.
7	6120 - Lowland Cedar	Poletimber Well	53.1	109	111-140	This stand is the Little Brevoort river corridor. Very steep!
8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	40.8	87	111-140	Lots of beech mortality. Basal area is a lot lower in those areas.
9	6120 - Lowland Cedar	Poletimber Well	8.5	98	141-170	Wet cedar. Drops off from the northern hardwood to the north.
10	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	43.1	28	1-50	Really thick maple and aspen regen with over topping white pine.
11	42340 - Upland Spruce/Fir	Poletimber Well	61.5	52	81-110	Mixed stand, a portion lies within the Little Brevoort Lake Natural Area.
12	6120 - Lowland Cedar	Poletimber Well	28.6	92	Unspecified	Wet cedar stand separated by a pipeline.
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	199.8	70	81-110	Pretty big maple stand. The northern portion of this stand was thinned the previous entry. The remaining portion of this stand is within the Little Brevoort Lake Natural Area.
14	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.1	81	81-110	Stand can be thinned with the stand to the north.
18	4112 - Maple, Beech, Cherry Association	Sawtimber Well	114.4	93	81-110	Southern portion of stand cut in 2014. The northern portion surrounding the MWR cut is ready to be thinned.
19	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	7.7	50	111-140	Little Brevoort Lake North campground lies within this stand.
21	6120 - Lowland Cedar	Poletimber Well	93.9	124	141-170	Big cedar stand on the north side of the lake. Northern portion of the stand has more red maple and paper birch.

S  
t  
a  
n  
d

## Sault Ste. Marie Mgt. Unit

## Report 7 – Forested Stands

Compartment: 101  
Year of Entry: 2020

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	42350 - Upland Hemlock	Sawtimber Well	39.6	109	141-170	Nice hemlock stand split by US-2. Southern portion of the stand is quite hilly.
23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90.6	93	111-140	Southern portion of stand cut in 2014. The northern portion surrounding the MWR cut is ready to be thinned.
25	4111 - S.Maple, Hard Mast Association	Sawtimber Well	50.4	76	111-140	Stand is ready to be thinned. Stay away from the steep areas and the portions with the heavy conifer. West part of the stand is quite steep.
28	4110 - Sugar Maple Association	Sawtimber Well	17.9	95	81-110	Large diameter maple stand. This stand is along the north side of a subdivision along Lake Michigan.
29	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	21.5	53	51-80	Wet Mackinac Mix stand with a super thick balsam understory.
30	6120 - Lowland Cedar	Poletimber Well	68.4	109	Unspecified	Little Brevort River corridor. Stand is very steep!
33	6111 - Lowland Balsam Poplar	Poletimber Well	8.3	47	81-110	Wet bam and soft maple with a few ash.
34	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	35.7	30	1-50	Stand is on the border between an upland brush and a forested stand. The cherry and aspen is big enough to be forested stand. Pockets of grass within the stand.
35	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	30.9	93	51-80	Stand was originally part of stand 18. Was an cut as Part of Hallowed Hardwood MWR. This stand has patch clear cuts.
36	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	67.2	104	Unspecified	Nice hemlock stand. Little Brevort Lake South Unit Campground lies within this stand.
37	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	15.1	43	51-80	Mixed stand. Look at cutting in 20-30 yrs.
38	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	24.8	35	51-80	Swamp stand that was cut in 1983. Were it is really wet the regen is spotty.
39	4130 - Aspen	Sapling Well	10.3	4	Immature	Stand was clear cut in 2014. Regeneration is to be natural and is coming along well at this time.
40	6120 - Lowland Cedar	Poletimber Well	15.1	92	111-140	Small diameter cedar stand.
42	4112 - Maple, Beech, Cherry Association	Sawtimber Well	49.5	84	81-110	Stand was thinned in the previous entry.
44	4130 - Aspen	Poletimber Well	18.8	33	51-80	Real nice aspen regeneration. Stand is just transitioning into poles. Scattered mountain ash throughout the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	4312 - Hemlock, Mixed Deciduous	Poletimber Well	58.3	93	111-140	Variable stand, hemlock is much heavier on the western side of the stand.
46	42320 - Upland Spruce	Poletimber Well	15.9	37	51-80	Fairly thick spruce and balsam.
47	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.9	63	111-140	Mixed stand, more maple to the west and more aspen to the east. There is also some borderline aspen poles to the south. Right on the line between saplings and poles.
49	4112 - Maple, Beech, Cherry Association	Poletimber Well	17.3	71	81-110	Stand was thinned in 2014 as part of Triple Elle Hardwood sale #45-118-10-01.
50	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	59.1	52	81-110	Mackinac mix stand. A portion lies within the Little Brevort Natural Area.
51	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	48.8	63	111-140	Mixed stand, more maple to the west and more aspen to the east. There is also some aspen poles to the south.
54	42340 - Upland Spruce/Fir	Poletimber Well	44.7	50	111-140	Primarily spruce-fir, some scattered quaking aspen.
55	4111 - S.Maple, Hard Mast Association	Sawtimber Well	13.6	81	111-140	Stand is what is left after MWR cut. Look at thinning in 10 years.
57	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	95.3	78	111-140	Mixed white pine stand. Stand is split by US-2.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	310 - Herbaceous Openland	3.5	No	
15	310 - Herbaceous Openland	12.1	No	Pipeline ROW.
16	622 - Lowland Shrub	15.3	No	
17	622 - Lowland Shrub	7.5	No	
20	122 - Road/Parking Lot	11.5	No	
24	330 - Low-Density Trees	37.4	No	Stand was cut and chipped last entry.
26	122 - Road/Parking Lot	16.2	No	
27	310 - Herbaceous Openland	48.6	No	
31	500 - Water	161.0	No	
32	622 - Lowland Shrub	5.7	No	Little Brevort River corridor.
41	330 - Low-Density Trees	3.8	No	
43	622 - Lowland Shrub	22.3	No	
48	622 - Lowland Shrub	104.7	No	
52	330 - Low-Density Trees	16.7	No	