



# Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45142

Entry Year 2022

Acreage: 1,910

County Mackinac

Management Area: Lake Michigan Shoreline

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**Revision Date:** 2020-07-29

**Stand Examiner:** Kenny Fanelli

**Legal Description:**

T42N R7W Sec. 3, 4, & 5, Hendricks Township

T43N R7W Sec. 7, Hendricks Township

**Identified Planning Goals:**

The compartment has been managed in the past for red pine, northern hardwoods, and aspen. This entry period, management efforts will focus on the final harvest of the remaining mature red pine in the compartments as well as harvesting aspen mixed stands throughout. Other activities include the continued monitoring of young red pine plantations for prospective pests. Almost all of the hardwood stands in the compartment have been impacted by beech bark disease resulting in a loss of stocking and thick beech regeneration.

**Soil and topography:**

Level to gently rolling topography with the exception of the steep escarpment ridge that runs just south of and parallel to US-2. Wallace sands dominate the entire compartment north of US-2. Histosols and Aquents, Markey-Carbondale Muck, Leafriver-Croswell complex, and Esau-Zela complex soils are present in the lower topography south of US-2.

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

There are large private holdings along the Lake Michigan shoreline and US-2. There are also a few scattered small private holdings.

**Unique Natural Features:**

MNFI has identified potential for several protected species in this compartment.

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

None

**Special Management Designations or Considerations:**

Pipeline ROW corridors pass through the compartment. The shoreline areas and travel along US-2 require special management considerations.

**Watershed and Fisheries Considerations:**

This compartment contains upper stream reaches of Paquin Creek. Paquin Creek is a cold-water stream that supports stream-resident fish community of brook trout, pearl dace, slimy sculpin, central mudminnow, brook stickleback. Paquin Creek is also important that it supports natural reproduction of Lake Michigan potadromous fishes such as steelhead, Chinook salmon, and coho salmon. Implementation of BMP's will aid in preventing sediment input from road crossings and upland areas are critically important to protect spawning areas for trout and other stream-resident fishes. Buffering the river is also critical to ensure future inputs of woody material to the stream channel, discourage aspen regeneration close to the stream channel, and provide shading to protect water temperature from warming to a degree that will inhibit trout survival.

**Wildlife Habitat Considerations:**

This compartment is part of the Lake Michigan Shoreline MA where featured wildlife species are piping plover and white-tailed deer. A steep hill south of US-2 separates areas within the compartment. The southwestern portion south of US-2 is dominated by lowland conifer swamp but touches Lake Michigan and contains areas of Great Lakes coastal marsh. These habitats support a number of rare features and contains Great Lakes Marsh ERAs. The majority of the compartment is in an upland setting on sandy soils primarily north of US-2 and contains aspen, northern hardwoods, and red pine. Upland stands have been managed while lowland areas near Lake Michigan have primarily been protected. Portions of the compartment are part of deer wintering complex. The lowland conifer stands near Lake Michigan provide cover for wintering deer. Some other areas provide food resources.

Wildlife objectives include protecting rare species and habitats near Lake Michigan including the coastal marsh, retaining the lowland conifer areas south of US-2, maintaining early successional habitat, encouraging diversity in northern hardwood and red pine stands, and preventing the spread of invasive species. Aspen stands are in varying age classes, and some will be treated with the goal of regenerating young aspen habitat that will benefit deer, ruffed grouse and numerous other bird species, snowshoe hare, and a variety of other wildlife. A stream corridor will be left to protect the riparian habitat and travel corridor. Lowland areas south of US-2 including the ERAs will be left to protect the coastal marsh and associated habitat as well as cover for wintering deer.

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

Surface sediments consist of lacustrine (lake) sand and gravel. There is upwards to 100 feet of Glacial Drift thickness. The Silurian Engadine Group subcrops below the Glacial Drift. The Engadine is quarried for stone/limestone elsewhere in the UP. The nearest gravel pit is two miles to the east. There may be some gravel potential in the compartment. There is no economic oil and gas production in the UP. Portions of the land is surface only.

### **Vehicle Access:**

Access is very good throughout the entire compartment. US-2, Hiawatha trail, Paquin Creek Rd., and Epoufette Bay Rd. are the main roads in the compartment. Pipeline ROW's and two-tracks offer access to the compartment interior.

### **Survey Needs:**

No survey needs for proposed treatments this entry period.

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

Snowmobile trail runs through the compartment along pipeline ROWs and Paquin Creek Rd. Deer, grouse, rabbit, and bear hunting are common in this compartment. Mushroom and Blueberry picking is also possible along pipeline ROWs.

### **Fire Protection:**

There is potential for fire ignition in this compartment from the heavy recreational use. There are extensive areas of pine fuels in this compartment. Access in this compartment is very good, with no area being greater than .5 miles from US-2, Hiawatha Trail, or Paquin Creek Rds. Pipeline ROW's and two-tracks offer extensive access into the compartment interior and act as fire breaks. Available water sources would include: Paquin Creek and Lake Michigan.

### **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:**

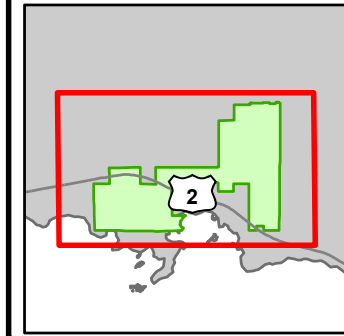
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**



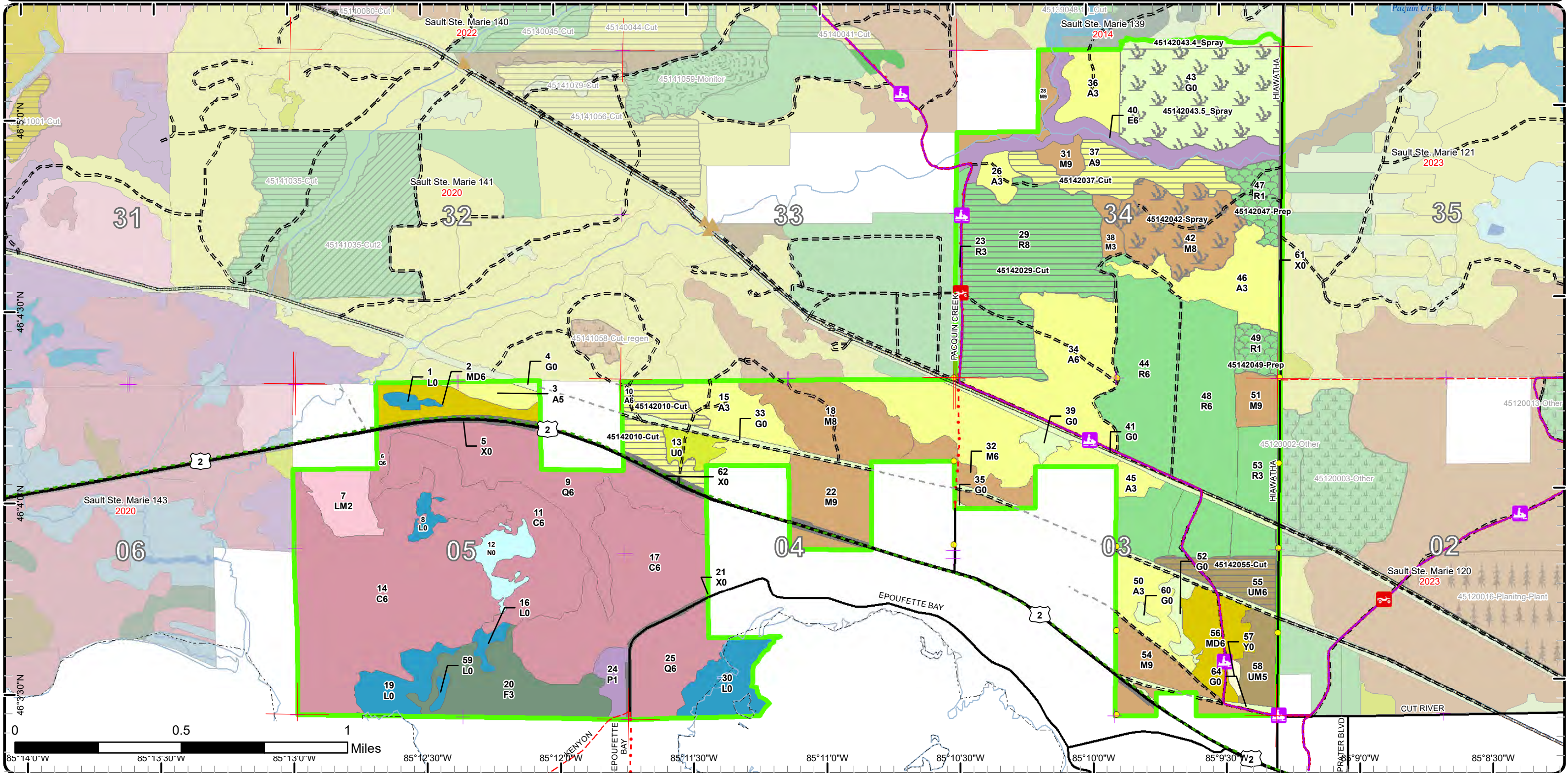
# Cover Type & Treatments Map

Compartment: 142  
 T42N R07W, Sec. 3-5, T43N R07W, Sec. 34  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Lake Michigan Shoreline  
 YOE: 2022  
 Acres: 1,910 GIS Calculated  
 Examiner: Kenny Fanelli  
 Map Revised: 8/10/2020  
 Map Phase: Web Post

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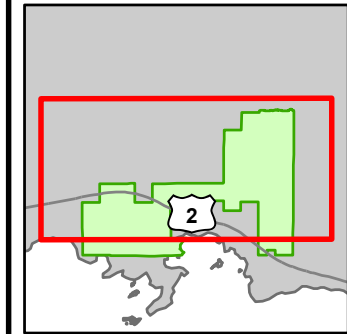
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
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- Federal / State Highway
- Federal / State / County - Paved Road
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- Clearcut (w/Reserves)
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
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- 423 - Other Upland Conifers
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- 623 - Emergent Wetland
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- 710 - Sand/Soil



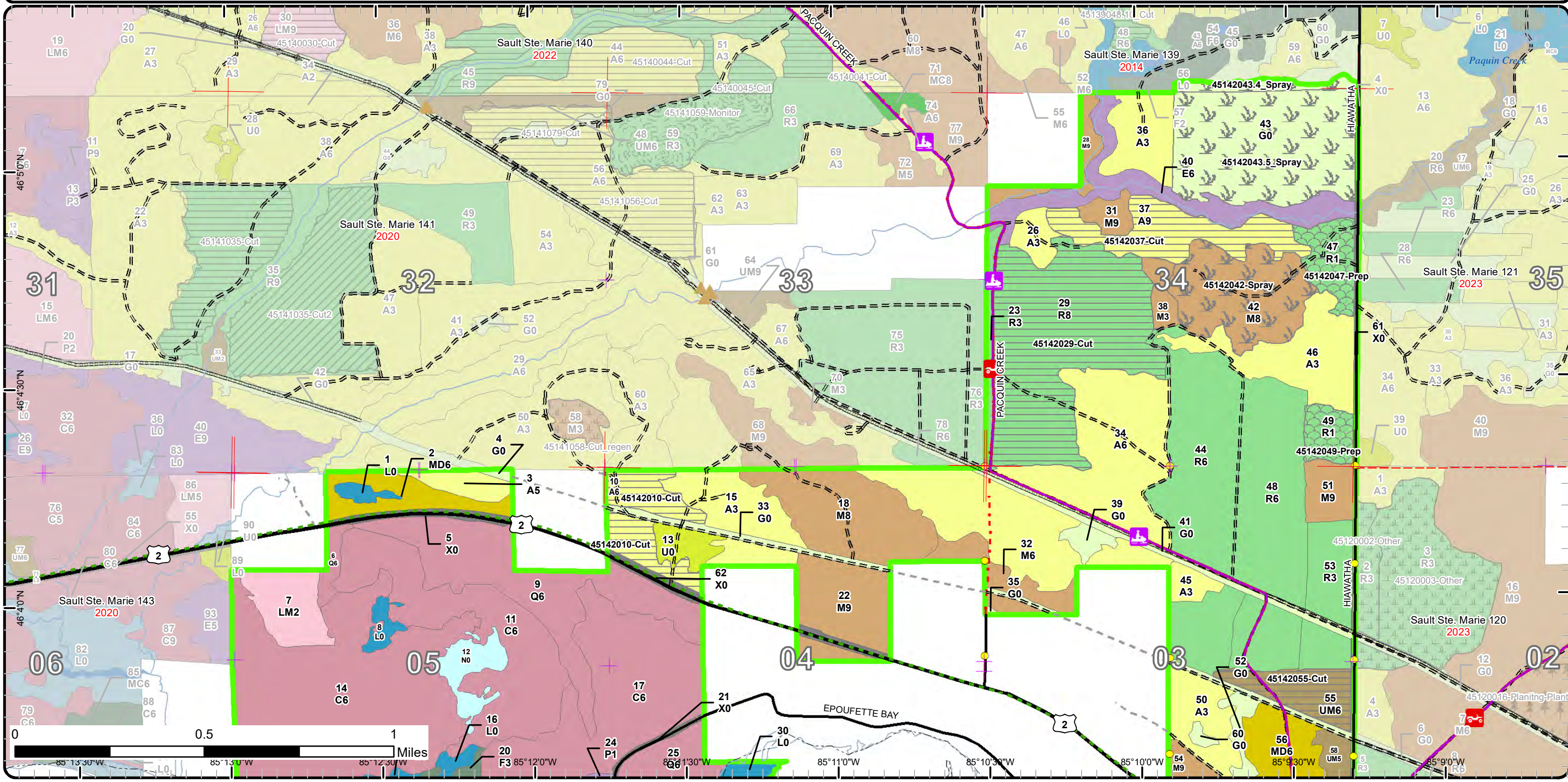


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 T42N, R07W, Sec: 3-5  
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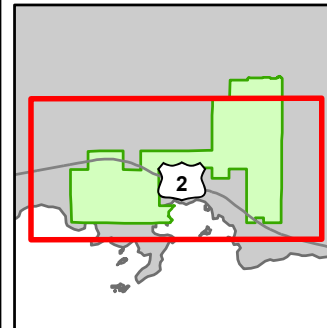


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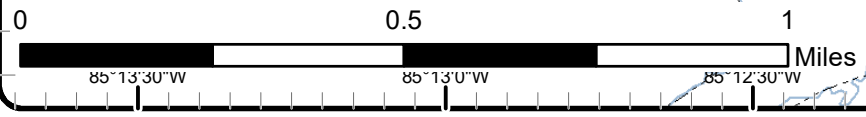
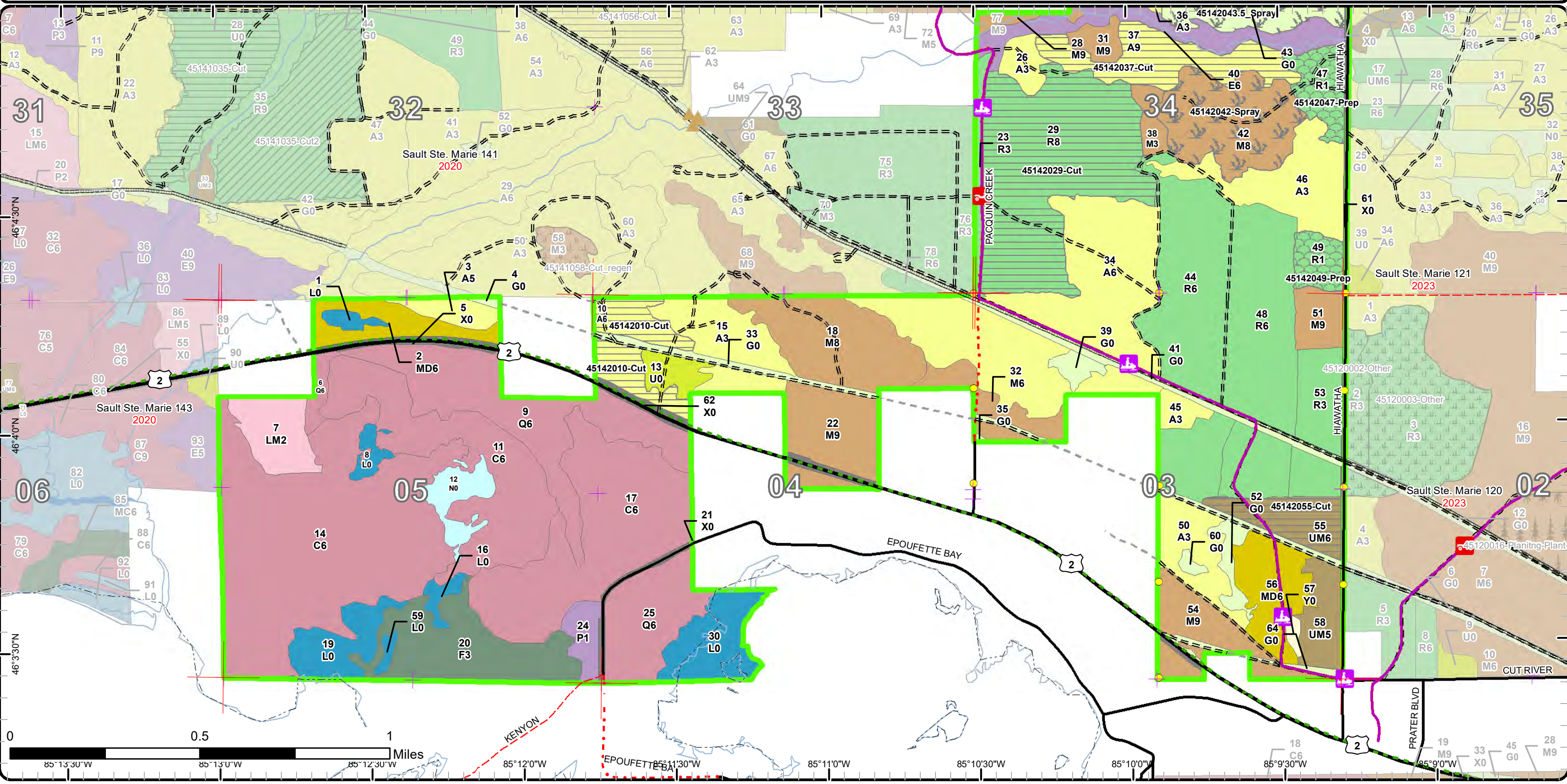


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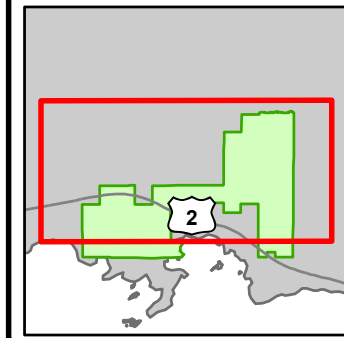
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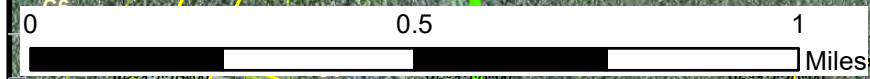
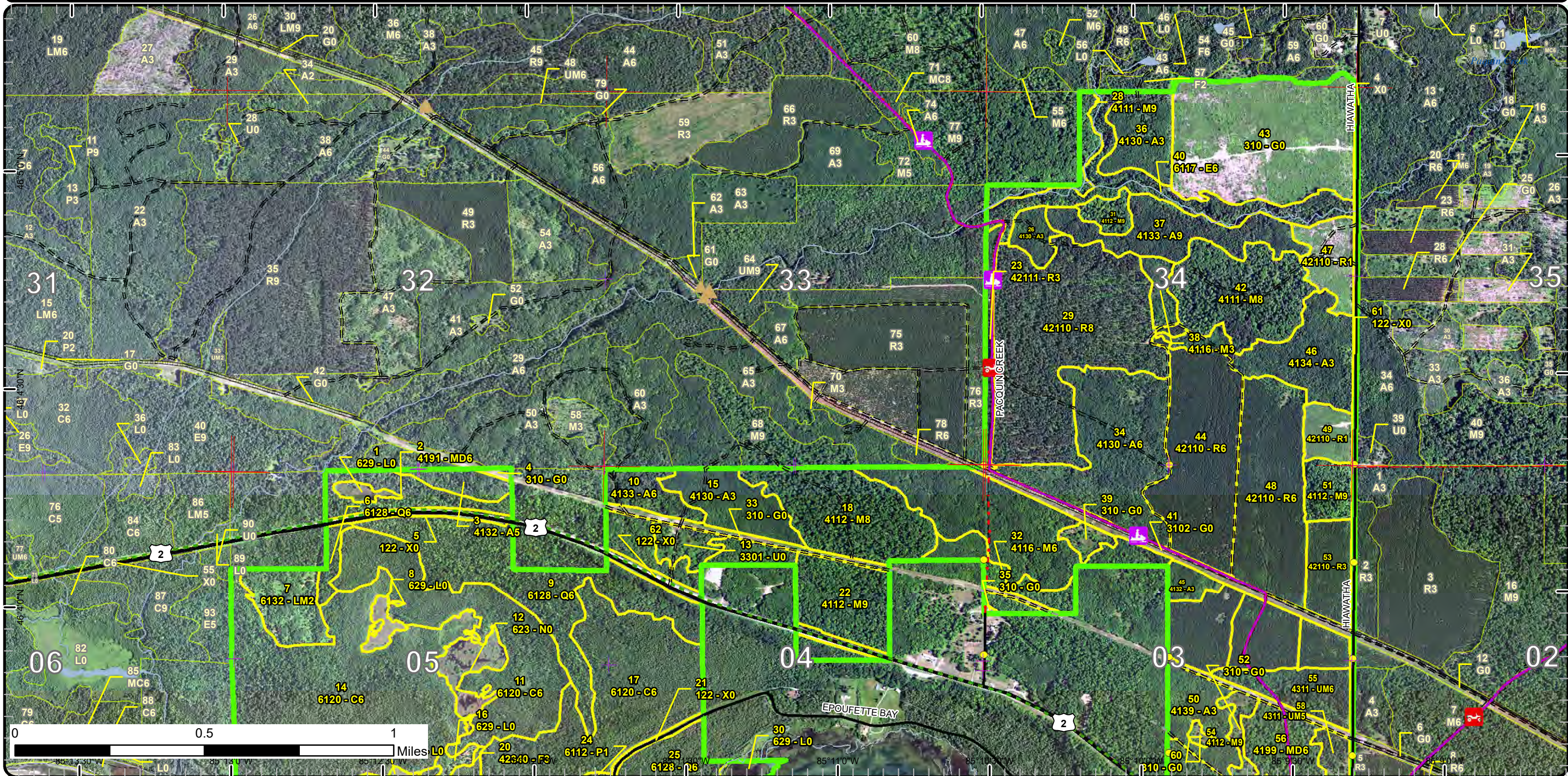


# Stand Boundary Map

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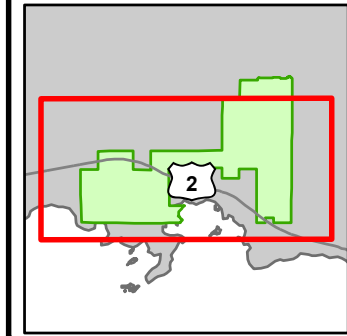
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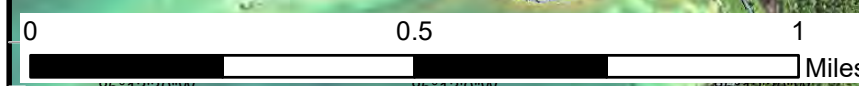
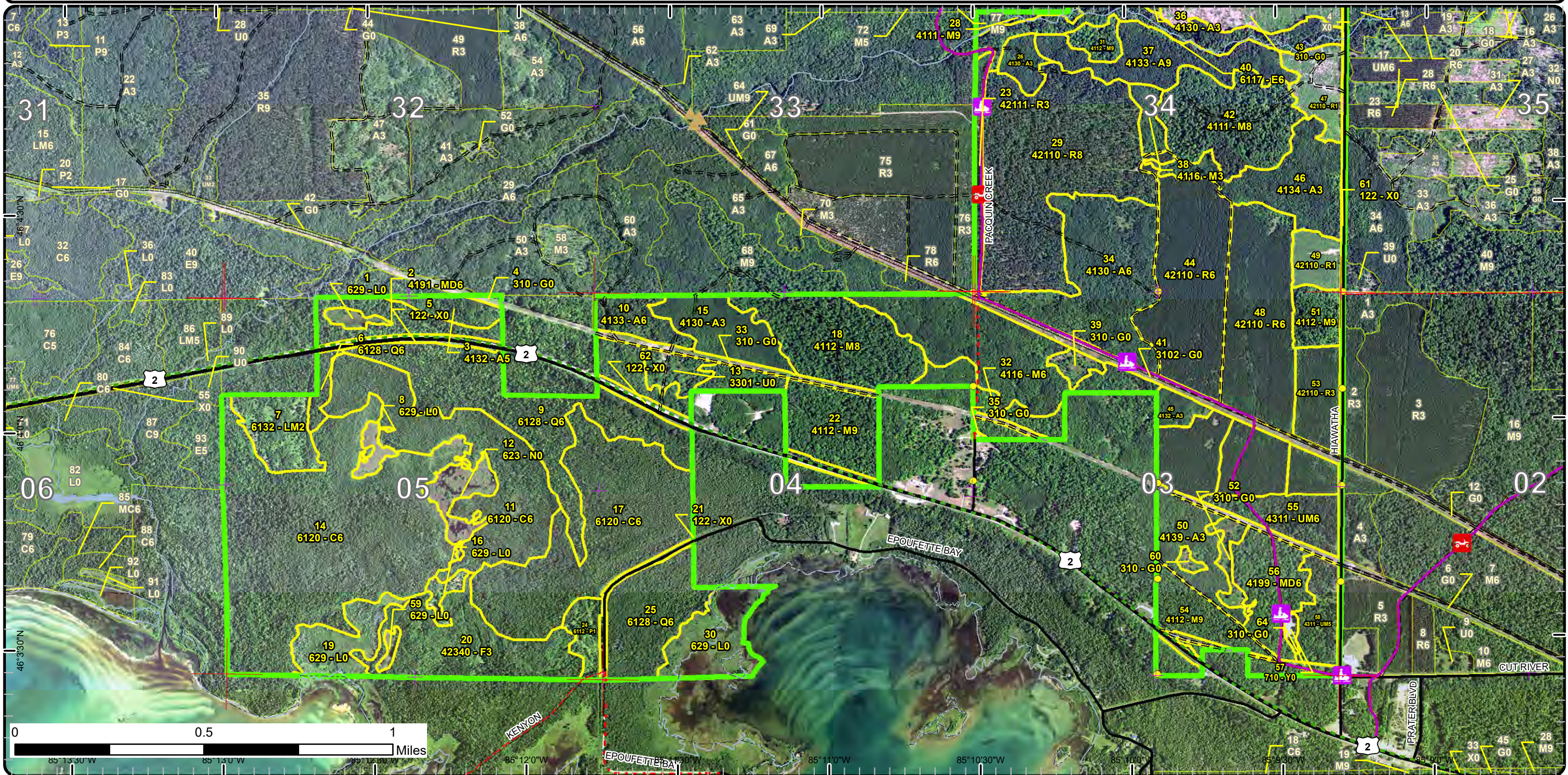


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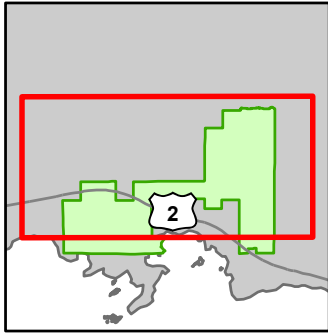
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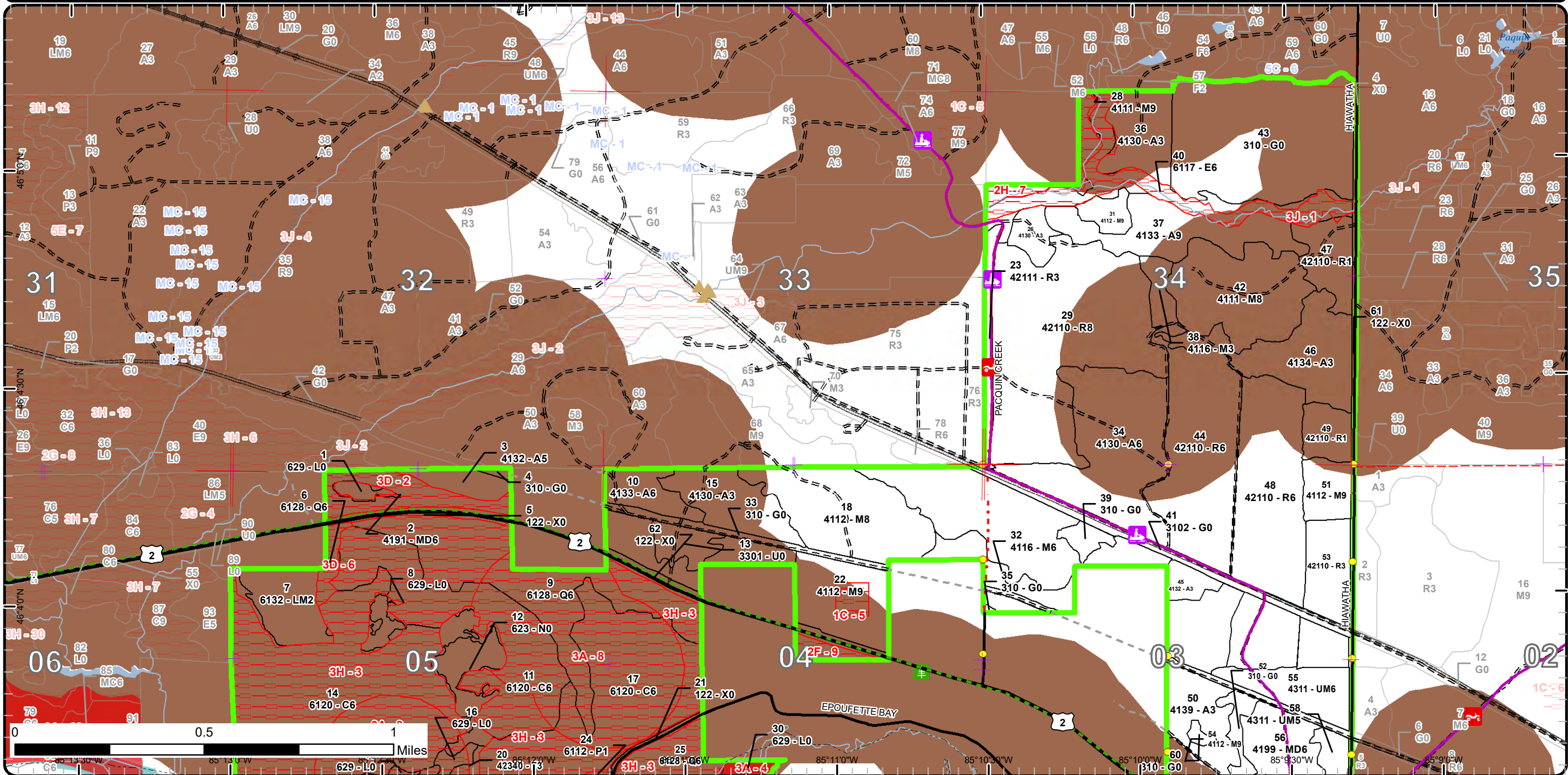


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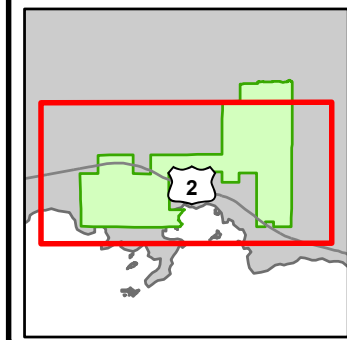
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|---|--|---|
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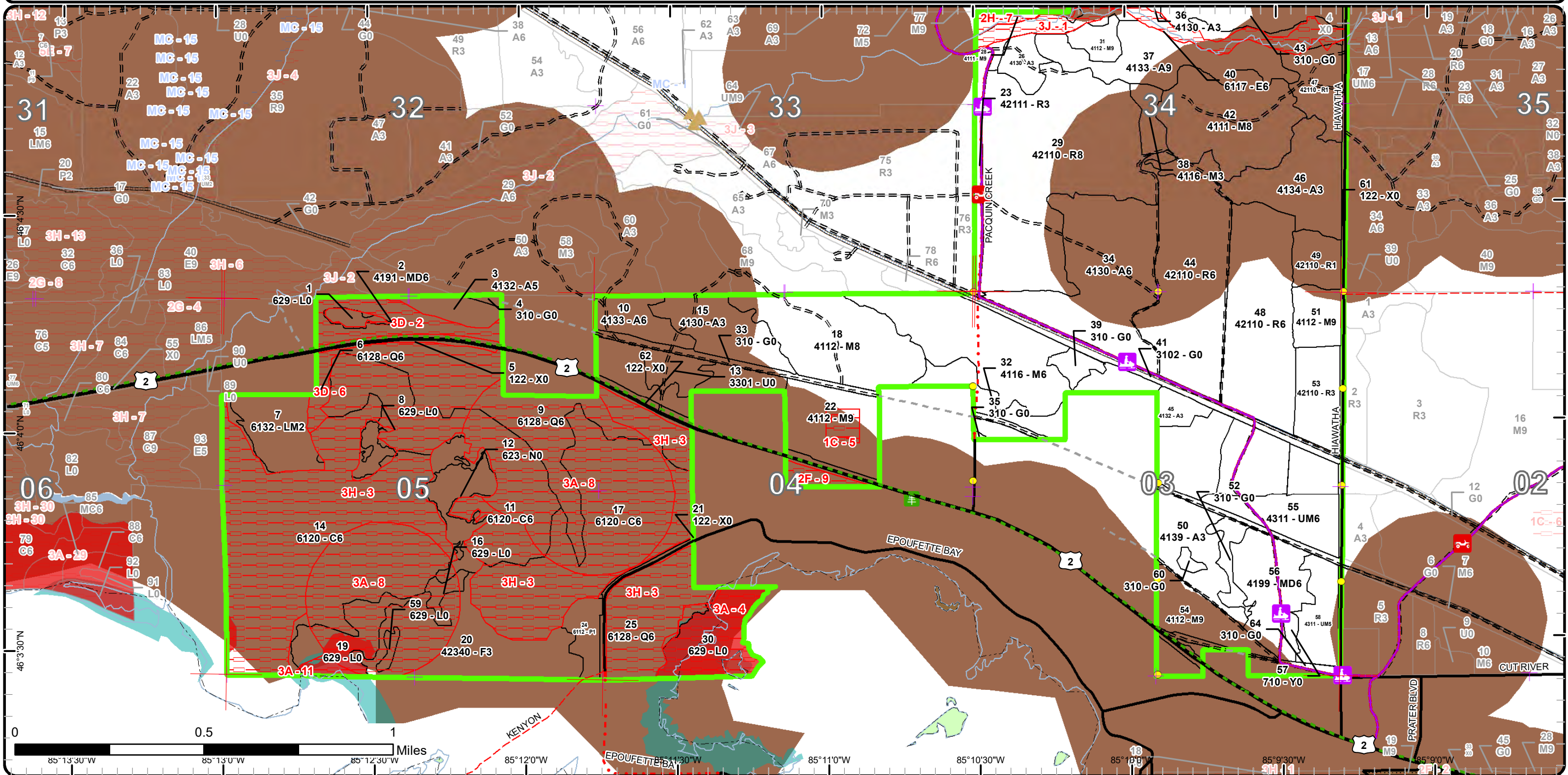


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- Scenic Turnouts
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range
- Great Lakes Islands





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	0	64	82	163	38	0	0	0	0	0	0	0	0	0	0	0	347
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	285	80	0	0	0	0	365
Herbaceous Openland	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	6	39	0	76	0	0	0	0	121
Lowland Deciduous	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	40
Lowland Mixed Forest	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Shrub	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	0	0	30	20	0	0	0	0	0	0	0	0	0	0	50
Northern Hardwood	0	0	0	0	8	0	25	0	143	51	0	0	0	0	0	0	0	0	227
Red Pine	0	29	29	185	0	0	0	0	0	121	0	0	0	0	0	0	0	0	364
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	17	21	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Upland Spruce/Fir	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Urban	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
<b>Total</b>	<b>274</b>	<b>29</b>	<b>29</b>	<b>288</b>	<b>175</b>	<b>163</b>	<b>93</b>	<b>60</b>	<b>143</b>	<b>172</b>	<b>6</b>	<b>39</b>	<b>285</b>	<b>156</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1911</b>





## Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit  
Year of Entry: 2022

Acres of Harvest

Compartment 142  
Total Compartment Acres: 1,910

Commercial Harvest - 206  
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
Aspen	65	0	0	0	0	0	0	0	0	65
Red Pine	120	0	0	0	0	0	0	0	0	120
Upland Mixed Forest	21	0	0	0	0	0	0	0	0	21
<b>Total</b>	<b>206</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>206</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	206	29	0	0	0	148	0	0	0	383
Next Step	0	149	149	0	120	276	539	0	0	1232
<b>Total</b>	<b>206</b>	<b>178</b>	<b>149</b>	<b>0</b>	<b>120</b>	<b>424</b>	<b>539</b>	<b>0</b>	<b>0</b>	<b>1615</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	Habitat Cut
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**Proposed Treatments:**

<b>10</b>	<b>45142010-Cut</b>	27.5	4133 - Aspen, Mixed Pine	Poletimber Well	47	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Clear cut all hardwoods to 2 inches and conifers to 4 inches. Mark retention pockets as well as some individual trees to meet the retention requirements.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of aspen, red maple, white pine, birch, spruce, and fir.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
<b>29</b>	<b>45142029-Cut</b>	119.6	42110 - Planted Red Pine	Sawtimber Medium	82	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Clear cut all species down to two (2) inches. Retain red pine along the sale boundary adjacent to stand 37 and 38.											
<u>Specs:</u>											
<u>Next Step</u> Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Monitoring, Artificial											
<u>Treatments:</u> Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Acceptable</u> Red Pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
<b>37</b>	<b>45142037-Cut</b>	37.5	4133 - Aspen, Mixed Pine	Sawtimber Well	54	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Two-Aged	No
<u>Prescription</u> Clear cut all species down to two (2) inches except white pine, cedar, and hemlock if present. Apply appropriate buffer to the northern boundary along Paquin Creek. Mark an additional retention pocket around around one of the red pine pockets found within the stand.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Moderately to fully stocked aspen, red pine, white pine, red maple, sugar maple, birch, spruce, or fir.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											





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	Habitat Cut
42	45142042-Spray	51.3	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	82	51-80	Pesticide	Hand Application	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Spray for garlic mustard.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Invasive Species</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Hand pull when able.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/21/2020</p>											
47	45142047-Prep	17.6	42110 - Planted Red Pine	Sapling Poor	4	Immature	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> This stand is being restarted after it failed regeneration. Roller chop and follow up with spraying and replanting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
49	45142049-Prep	11.6	42110 - Planted Red Pine	Sapling Poor	4	Immature	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> This stand is being restarted because of failed regeneration. Roller chop and follow up with spraying and replanting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
55	45142055-Cut	21.0	4311 - Pine, Aspen Mix	Poetimber Well	36	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clear cut all species down to two inches. Mark a retention pocket on the east side of the stand but at least one tree length away from any right of way.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of aspen, jack pine, red maple, cherry, and birch.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											





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	Habitat Cut
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**Approved Treatments:**

43	45142043.4_S pray	7.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Release RP <u>Specs:</u></p> <p><u>Next Step</u> ; ; Monitoring, Artificial Regen(3yr); Monitoring, Herbicide Use; Pesticide, (Inactive)Aerial <u>Treatments:</u></p> <p><u>Acceptable</u> RP <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>											
43	45142043.5_S pray	88.8	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Spray to release RP. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> only about 1/2 of this stand needs to be sprayed. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>											

**Total Treatment 382.6**  
**Acreage Proposed:**



## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 142

Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
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### Dominant Site Conditions

				1C	2F	2H	3A	3D	3H	3J
347	346	0	0							0
364	15	0	350				132		218	
148	147	0	0							0
10	10	0	0							
10	10	0	0							
121	0	0	120				35	6	80	
40	8	0	32							32
22	22	0	0							
65	13	0	52				52	1	0	
14	14	0	0							
50	30	0	20					20		
227	207	0	20	5	5	10				1
364	364	0	0							0
2	2	0	0							
38	38	0	0							
54	33	0	21				21			
34	34	0	0							0
1,910	1,294		616	5	5	10	240	26	297	33
	68%		32%							

*\*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	3J: Water quality / BMPs (stream, river, or lake)	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3D: Recreational / Scenic values	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 142

Year of Entry: 2022

3	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	297	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
5	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
6	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	206	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							



**Report 4 – Site Conditions**

**Sault Ste. Marie Mgt. Unit**  
**Kenny Fanelli : Examiner**

**Compartment: 142**  
**Year of Entry: 2022**

9	<b>Unavailable</b>	<b>2F: Too steep</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							



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	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	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	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	Coastal Environmental Areas	The public designation process is defined by Part 323, Shorelands 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). This is an inactive program with no new areas currently under consideration by the DEQ.
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	629 - Mixed non-forested wetland	Nonstocked	3.6			No																																							
2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	20.3	69	81-110	N/A	Stand is steep ridge that runs along u.s. 2. Possibly harvest north portion next entry, more aspen, but small dia. currently. Part along highway will not be merchantable.																																						
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3	4132 - Aspen, Jack Pine	Poletimber Medium	9.9	37	51-80	N/A	Variable mixed stand of small poor quality deciduous and jp. The aspen is ok quality, but still quite small.																																						
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Black Cherry	15	Sapling	4																																										
4	310 - Herbaceous Openland	Nonstocked	1.2			No	Pipeline																																						
5	122 - Road/Parking Lot	Nonstocked	6.9			No																																							
6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.7	99	111-140	N/A	Original State Notes: Variable stand on gradiating slope along u.s.2. Stand is mix of birch, mr, cedar, hemlock, wp and some aspen. Low ground and wet on southern end. Gradiates into purer cedar. 06/13/2010																																						
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7	6132 - Mixed Lowland Forest with Cedar	Sapling Medium	22.4	24		N/A	Original Notes: Cut in 1996. Mack. mix of aspen, birch, bam, balsam. Cedar residual in pockets looks ok. 6/1/2010																																						
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8	629 - Mixed non-forested wetland	Nonstocked	4.8			No																																														
9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	75.5	120		N/A	Original Stand Notes: Mixed stand of variable quality cedar. Areas of w.p. overstory w/ hemlock, especially along escarpment. Obviously wetter along bottom lands along base of escarpment with numerous seeps. 6/1/2010																																													
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Balsam Poplar	Low	10 - 20 feet	Sapling																																																	
Balsam Fir	Medium	5 - 10 feet	Sapling																																																	
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																	
10	4133 - Aspen, Mixed Pine	Poletimber Well	27.5	47	Unspecified	N/A	Upland mackinac mix with a variety of size classes. Larger diameters on the south side of the pipeline.																																													
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11	6120 - Lowland Cedar	Poletimber Well	79.7	120	Unspecified	N/A	Original Stand Comment: Mostly old, poorer quality cedar. Deer sign, but not a lot. Very wet ground around inside edge. Some open patches with tag. Hemlock presence along fringe. 6/1/2010																																													
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12	623 - Emergent Wetland	Nonstocked	14.1			No																																														
13	3301 - Low Density Deciduous Trees	Nonstocked	9.9			No																																														
14	6120 - Lowland Cedar	Poletimber Well	181.9	115	Unspecified	N/A	Original Stand Comment: Large cedar stand. Varies from very wet in the east/northeast to not so wet and more species to west. 6/1/2010																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
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16	629 - Mixed non-forested wetland	Nonstocked	4.3			No																																											
17	6120 - Lowland Cedar	Poletimber Well	102.7	110		N/A	Original Stand Comment: Nice cedar stand. Some deer sign. Not much cedar regen. present. Wet along seep coming out from escarpment. variable with some areas heavier to balsam/ spruce. 6/1/2010																																										
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18	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	56.3	79	51-80	N/A	Stand is right at the line between M7 and M8. Was thinned hard. Regen is thick with beech with only a little bit of maple making it through. It will be a long time before it can be harvested again.																																										
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19	629 - Mixed non-forested wetland	Nonstocked	21.9			No																																											
20	42340 - Upland Spruce/Fir	Sapling Well	53.8	38	Unspecified	N/A	Original Stand Comment: Stand of mixed immature aspen and balsam/spruce. 6/1/2010  Partially clear cut in 1994 during the Club 440 Birch sale.																																										
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21	122 - Road/Parking Lot	Nonstocked	4.8			No																																											





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**22** 4112 - Maple, Beech, Cherry Association Sawtimber Well 37.6 71 81-110 N/A Stand is mostly red maple and sugar maple with scattered yellow birch. Maple regen is lacking and there is thick cover of beech. Stand was thinned in 2013 as part of the Beech Barrens Firewood Sale (45-116-11-01). All beech, aspen, and fir was removed.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	40	Log/Pole	12	71	Beech	High	10 - 20 feet	Sapling
Red Maple	50	Log/Pole	12	71	Red Maple	Low	< 5 feet	Seeding

**23** 42111 - Planted Red Pine, Mixed Deciduous Sapling Well 9.4 20 Immature N/A No signs of RHPS at this time.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	2	
Red Pine	60	Sapling	3	20
Black Cherry	20	Sapling	2	

**24** 6112 - Lowland Aspen Sapling Poor 10.0 38 Unspecified N/A Clear cut as part of the 440 Club Birch sale in 1994. Low quality scattered aspen, spruce, and fir.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	65	Sapling/Pole	4	38	Tag Alder	High	5 - 10 feet	Tall Shrub
Bigtooth Aspen	15	Sapling/Pole	4		Tamarack	Low	10 - 20 feet	Sapling
Balsam Fir	10	Sapling/Pole	4					
Northern White Cedar	10	Sapling	4					

**25** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 39.4 100 81-110 N/A Original Stand Comment: Poorer quality cedar along lake shore. Very wet ground, with mix of mr, and some birch. 6/13/2010

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	7		Conifers	Medium	5 - 10 feet	Sapling
Paper Birch	15	Pole/Sapling	6		Tag Alder	Low	10 - 20 feet	Tall Shrub
Balsam Fir	30	Pole/Sapling	6					
Northern White Cedar	45	Pole/Sapling	7	100				

**26** 4130 - Aspen Sapling Well 8.6 31 N/A Aspen has over topped most of the maple in the stand and is doing well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Sapling	4		Sugar Maple	Low	Variable	Sapling
Red Maple	10	Sapling/Pole	4		Red Maple	Medium	Variable	Sapling
Quaking Aspen	55	Pole/Sapling	5	31	Beech	Medium	Variable	Sapling
Bigtooth Aspen	25	Pole/Sapling	5					
Black Cherry	5	Sapling	3					

**28** 4111 - S.Maple, Hard Mast Association Sawtimber Well 10.2 53 81-110 N/A Stand is choked by Paquin creek and private property. Its widest points is about 250' and there is no access by road. Trees vary in size between poles and logs but because of its size and location harvesting isn't viable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	10	53	Beech	Low	Variable	Sapling
Red Maple	25	Pole	6		Sugar Maple	Medium	Variable	Sapling
Beech	10	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Black Cherry	5	Pole/Sapling	5	11				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>29</b>	42110 - Planted Red Pine	Sawtimber Medium	120.6	82	81-110	N/A	Stand was thinned in 2009 in the Left Side Pine Retry sale (110-07-01). All jack pine, aspen, and hardwood was thinned from the stand. Lots of hardwood growth in the under story as well as aspen growing in the larger gaps.																																														
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<b>31</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.3	78	51-80	N/A	A lot of beech is already dead. Heavy beech regen.																																														
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Beech	High	5 - 10 feet	Sapling																																																		
Sugar Maple	Low	< 5 feet	Seeding																																																		
<b>32</b>	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	14.8	55	81-110	N/A	Mix of species as well as size classes. Mostly small diameters with some logs on the east end.																																														
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<b>33</b>	310 - Herbaceous Openland	Nonstocked	15.0			No	Pipeline																																														
<b>34</b>	4130 - Aspen	Poletimber Well	135.1	42	Unspecified	N/A	CC in 1978-1983. Aspen mixed with red maple and white pine. Many parts of the stand are still immature.																																														
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<b>35</b>	310 - Herbaceous Openland	Nonstocked	0.4			No																																															





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
<b>36</b>	4130 - Aspen	Sapling Well	23.4	25		N/A	cc in 1995. The aspen has over topped most of the other tree species but red maple, paper birch, and cherry are scattered throughout. Sugar maple saplings become prevalent as you get close to Paquin Creek on the west end.																																																							
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<b>37</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	37.5	54	81-110	N/A	Stand is mostly mature, mix of log and pole size, aspen. There are scattered pockets of red pine throughout the stand as well as a lot along the creek on the north end.																																																							
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<b>38</b>	4116 - Mixed N. Hardwood - Aspen	Sapling Well	7.5	36	51-80	N/A	Mixed stand of variable quality red maple, sugar maple, cherry, aspen, and balsam brush. Not much size yet, very brushy.																																																							
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<b>39</b>	310 - Herbaceous Openland	Nonstocked	5.2			No	Pipeline r.ow.																																																							
<b>40</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	39.6	66	Unspecified	N/A	Creek corridor that is mix of everything. Ranges from rm/ birch to spruce/cedar w/ tag alder everywhere. No management potential ever.																																																							
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<b>41</b>	3102 - Grass	Nonstocked	16.3			No	Pipeline r.o.w.																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
42	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	51.3	82	51-80	N/A	This is a stand of almost all large sugar maple. Almost all of the beech has died of BBD. There are a lot of snags and CWD as a result. There are still live beech in the stand but they shows signs of decline. This has lead to a loss in stocking and harvesting in this stand will likely not be possible until the basal area recovers. Current BA range is from 50-90. There is a thick midstory of beech and sugar maple (15' high) as well as dense sugar maple regeneration (<12") in the under story with some moderate browsing signs.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		70	Log/XLog	15	82	Sugar Maple		
Red Maple		3	Log/Pole	12		Beech		
Yellow Birch		2	Log/XLog	15		Density		
Beech		25	Log	12	83	Avg. Height		
						Size		
43	310 - Herbaceous Openland	Nonstocked	96.5	0	Unspecified	4211 - Planted Red Pine	Cut in 2015. Site Prep sprayed in 9/2016. Trenched in 2016. Planted in 2017 FTP# C44-602 Passed first and third year regeneration surveys.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Red Pine		High	< 5 feet	Sapling				
Black Cherry		High	Variable	Tall Shrub				
Red Maple		Low	Variable	Sapling				
44	42110 - Planted Red Pine	Poletimber Well	90.9	23	111-140	N/A	Planted in 1997. Thick red pine plantation with volunteer jack pine throughout. No signs of RHPS at this time. Trees are about 30' tall.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Pine		90	Pole/Sapling	5	23			
Jack Pine		10	Pole/Sapling	5				
45	4132 - Aspen, Jack Pine	Sapling Well	6.6	25		N/A	Cc in 1995. Healthy aspen with mix of cherry and some jp.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Maple		5	Sapling/Pole	4				
Quaking Aspen		55	Sapling/Pole	4	25			
Jack Pine		20	Sapling	4				
Black Cherry		20	Sapling/Pole	3				
46	4134 - Aspen, Spruce/Fir	Sapling Well	40.3	36		N/A	cc in 1984, aspen with mix of maple and spruce and balsam.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Maple		20	Sapling	4				
Quaking Aspen		40	Pole/Sapling	5	36			
Balsam Fir		15	Sapling	4				
White Spruce		5	Sapling	4				
Sugar Maple		5	Sapling	4				
Bigtooth Aspen		15	Pole/Sapling	5				
47	42110 - Planted Red Pine	Sapling Poor	17.6	4	Immature	N/A	Planted in May of 2016. 1st year regen check done. Looks ok overall. 670 trees per acre. 3rd year regen check was 46% survival at 308 trees per acre.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Pine		100	Sapling	1	4			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
<b>48</b>	42110 - Planted Red Pine	Poletimber Well	84.7	26	111-140	N/A	Planted in 1994. Volunteer jack pine throughout. No sign of RHPS at this time. Trees are about 30' tall.																																																			
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<b>49</b>	42110 - Planted Red Pine	Sapling Poor	11.6	4	Immature	N/A	Planted May of 2016. 1st year regen check done. Looks ok overall. 670 trees per acre. Release sprayed in 2016. Continue to monitor for pest and release, and spray as needed. 3rd year regen due in 2019. 3rd year regen check 46% of the trees survived 308 trees per acre.																																																			
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<b>50</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	23.5	34	Immature	N/A	Aspen has taken over as the dominant species with a lot of red maple also. Mostly still premerch with some poles.																																																			
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<b>51</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.8	76	81-110	N/A	Single tree harvested in 2014. Not much in the way of maple regen but heavy beech coming in in some of the larger gaps.																																																			
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<b>52</b>	310 - Herbaceous Openland	Nonstocked	7.0			No																																																				
<b>53</b>	42110 - Planted Red Pine	Sapling Well	29.0	19	Immature	N/A	Planted in 2001. Volunteer jack pine throughout. No sign of RHPS at this time. Trees are 15-20' tall.																																																			
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<b>54</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	29.7	77	51-80	N/A	Mostly red maple. Almost all beech has died which has affected basal area. Average is around 80sqft.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
<b>55</b>	4311 - Pine, Aspen Mix	Poletimber Well	21.4	36	81-110	N/A	Stand is a mix of jack pine, aspen, and red maple.																																																												
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<b>56</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	29.8	55	81-110	N/A	Mix of species, mostly low quality poles. Understory is thick with beech and red maple.																																																												
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<b>57</b>	710 - Sand, Soil	Nonstocked	2.0			No																																																													
<b>58</b>	4311 - Pine, Aspen Mix	Poletimber Medium	17.1	29	51-80	N/A	Previous opening that has filled in with mostly jack pine and low quality hardwoods.																																																												
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<b>59</b>	629 - Mixed non-forested wetland	Nonstocked	2.1			No																																																													
<b>60</b>	310 - Herbaceous Openland	Nonstocked	1.7			No																																																													
<b>61</b>	122 - Road/Parking Lot	Nonstocked	11.9	0		No																																																													
<b>62</b>	122 - Road/Parking Lot	Nonstocked	10.5		Unspecified	No	US-2																																																												
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