



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45034

Entry Year 2021

Acreage: 1,612

County Chippewa

Management Area: Huron Patterned Outcrop

Revision Date: 2019-07-26

Stand Examiner: Jeff Wise

Legal Description:

T43N R 2E Secs. 20,28,29,32,33,34; Chippewa County

Identified Planning Goals:

Compartment 34 is part of the Huron Patterned Outcrop Management Area. Past management has centered around the pine, oak, and upland hardwood types which were selectively harvested. The grass types have been treated in years past also. Proposed management this YOE will focus on selective harvest of one larger oak/aspens stand and red pine that is ready for treatment. Many of the openings need maintenance for removal of invasive scotch pine as well as brush and saplings filling in.

Soil and topography:

This level to slightly rolling compartment is composed of very poorly drained Markey-Kinross-AuGres and Markey and Carbondale mucks over most of the west and south part of the area. The north and north east along with a few inclusions in the south west is made up primarily of Kalkaska sand.

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

This compartment is a contiguous block of public ownership with the exception of an 80 acres block to the north. Private parcels to the south are generally residential or recreational with the remainder generally being in 40 acre to 80 acre blocks held for dispersed recreation such as hunting and snowmobiling.

Unique Natural Features:

According to MNFI, the only species listed in the compartment was a Red Shouldered Hawk seen almost 20 years ago in an unknown area of the township. There are no direct listings for any area of the compartment.

Archeological, Historical, and Cultural Features:

Nothing known at this time.

Special Management Designations or Considerations:

The very southern part of the compartment a wintering area for white tailed deer. Sharptailed grouse are often seen in the open and semi-open areas of the north and north east during the winter budding in the cherry and birch. These areas should be considered when doing adjacent management.

Watershed and Fisheries Considerations:

This compartment contains a portion of East Branch Munuscong River, a warm-transitional stream. A 100-foot buffer should be maintained adjacent to this waterbody.

Wildlife Habitat Considerations:

This compartment is part of the Huron Patterned Outcrop MA where featured wildlife species include pileated woodpecker, ruffed grouse, snowshoe hare, and white-tailed deer. The compartment is nearest to but separate from state land in the Gogomain MA to the east. It is located on a sandy ridge and is bordered by clay-dominated soils to the west and mucks supporting conifer swamp that is dominant in the Gogomain MA to the east. The compartment is fairly vegetatively diverse, ranging from early successional aspen and planted red pine to stands of mature northern hardwood where oak is well represented and lowland spruce stands. A relatively large opening is present in part of the compartment. Most of the compartment is part of deer wintering complex. There is fairly good access to the majority of the uplands in the compartment and the area receives a good deal of recreational hunting pressure.

Wildlife objectives include retaining cover for wintering deer and other wildlife, promoting diversity in northern hardwood stands, maintaining openings, and encouraging food sources. Species and structural diversity will be promoted in hardwood stands, and oak will be encouraged to promote acorn production that will benefit deer, bear, and other species.

In past years, some scotch pine removal has taken place to control this species and maintain the openings. This work is expected to continue, and additional activities are expected to maintain the openings. Leaving non-target species will retain diversity in red pine stands. Lowland conifer cover will be left for wintering deer and other wildlife. Young aspen and mixed stands will continue to provide food and cover for ruffed grouse, hare, and other species as they are left to mature.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pits are located more than four miles away. There appears to be some good sand potential within the compartment, but gravel may be limited. An active limestone/dolostone quarry exists four miles to the southwest. Different carbonate formations underlie the compartment, but they also have economic value. However, the glacial drift may be too thick here to make surface mining economical. There is no known metallic mineral potential in this area. Several oil & gas test wells were drilled to the southeast of the compartment; all were dry holes. There is no known potential for economic hydrocarbon 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:

Good access in the north and north east, anywhere there are areas of Kalkaska sand. Perimeter roads are common except in the south and west. No new permanent roads are planned or necessary in this compartment.

Survey Needs:

Nothing needed this YOY.

Recreational Facilities and Opportunities:

Dispersed recreation is the rule in this compartment with hunting being the main use. Game species are relatively abundant and access is good compared to most public land in the area. Snowmobiling in and around this compartment is also popular. This area has no developed recreational sites and none are planned.

Fire Protection:

Good access but poor water sources.

Additional Compartment Information:

This compartment is somewhat unique in its amount of diversity and the fact that grass is the primary type making up about 20% of the cover. 15% is in swamp conifers, 11% each in upland hardwoods and lowland brush and about 10% in aspen. Of the less prevalent types black spruce, red pine, and red oak make up 7%, 6%, and 5% respectively. Bog, cedar, hemlock, birch, swamp hardwoods and water make up the remaining 15% of the compartment

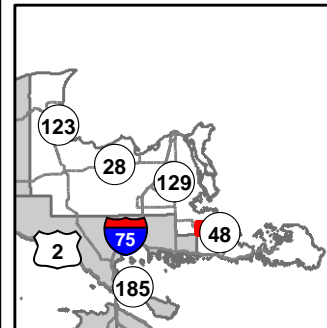
The following reports from the Inventory are attached:

- 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:

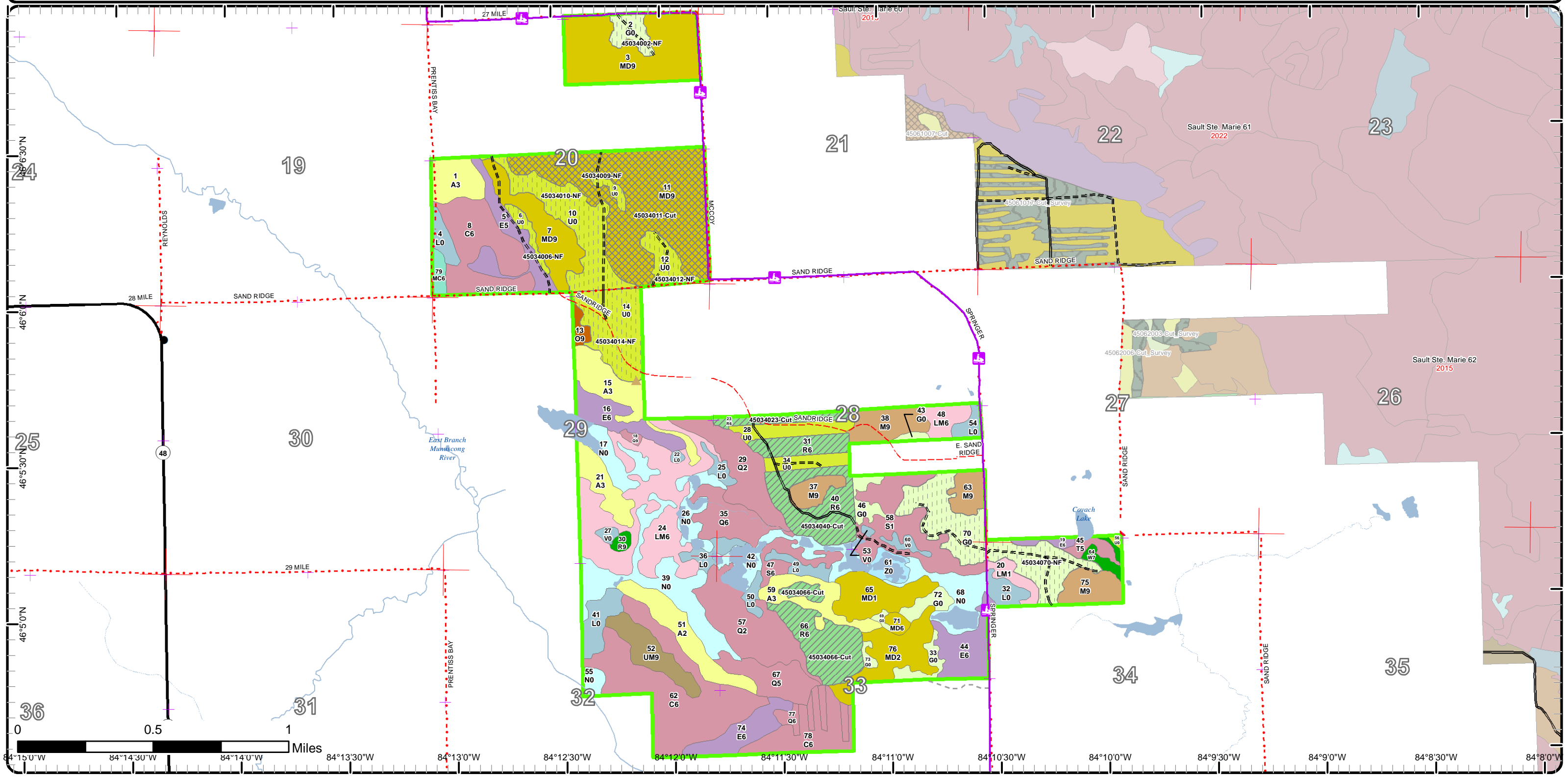
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

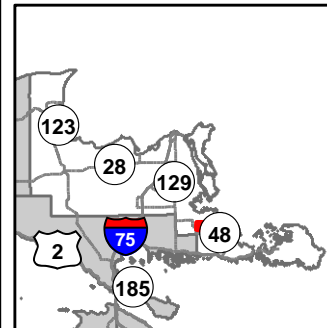


Compartment: 34
 T43N, R02E, Sec: 20, 28, 29, 32-34
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Huron Patterned
 Outcrop
 YOE: 2021
 Acres: 1,612 GIS Calculated
 Examiner: Jeff Wise
 Map Revised: 9/19/2019
 Map Phase: Web Post

- | | | |
|---------------------------------|-------------------------------------|------------------------------|
| — Miris Corners | — Lakes and Rivers All | ■ 613 - Lowland Mixed Forest |
| ⊕ Remonumented Section Corners | ▭ Compartment Boundary | ■ 310 - Herbaceous Openland |
| ▭ Counties | ⊗ Selection (Group, Single Tree) | ■ 330 - Low Density Trees |
| — DNR - Secondary Forest Road | ▨ Thinning (Crown, Low, Systematic) | ■ 500 - Water |
| — DNR - Forest Access Route | ▨ Opening Maintenance | ■ 622 - Lowland Shrub |
| — County - Gravel Road | ■ 411 - Northern Hardwood | ■ 623 - Emergent Wetland |
| — County - Dirt Road (Seasonal) | ■ 412 - Oak Types | ■ Lakes |
| — Private - Dirt / Gravel Road | ■ 413 - Aspen | |
| 🚙 Snowmobile Trails | ■ 419 - Mixed Upland Deciduous | |
| — Designated Snowmobile Trails | ■ 421 - Planted Pines | |
| ▲ Berms | ■ 422 - Natural Pines | |
| — Intermittent Stream | ■ 429 - Mixed Upland Conifers | |
| — Lake/Pond | ■ 430 - Upland Mixed Forest | |
| — Perennial River | ■ 611 - Lowland Deciduous Forest | |
| | ■ 612 - Lowland Coniferous Forest | |

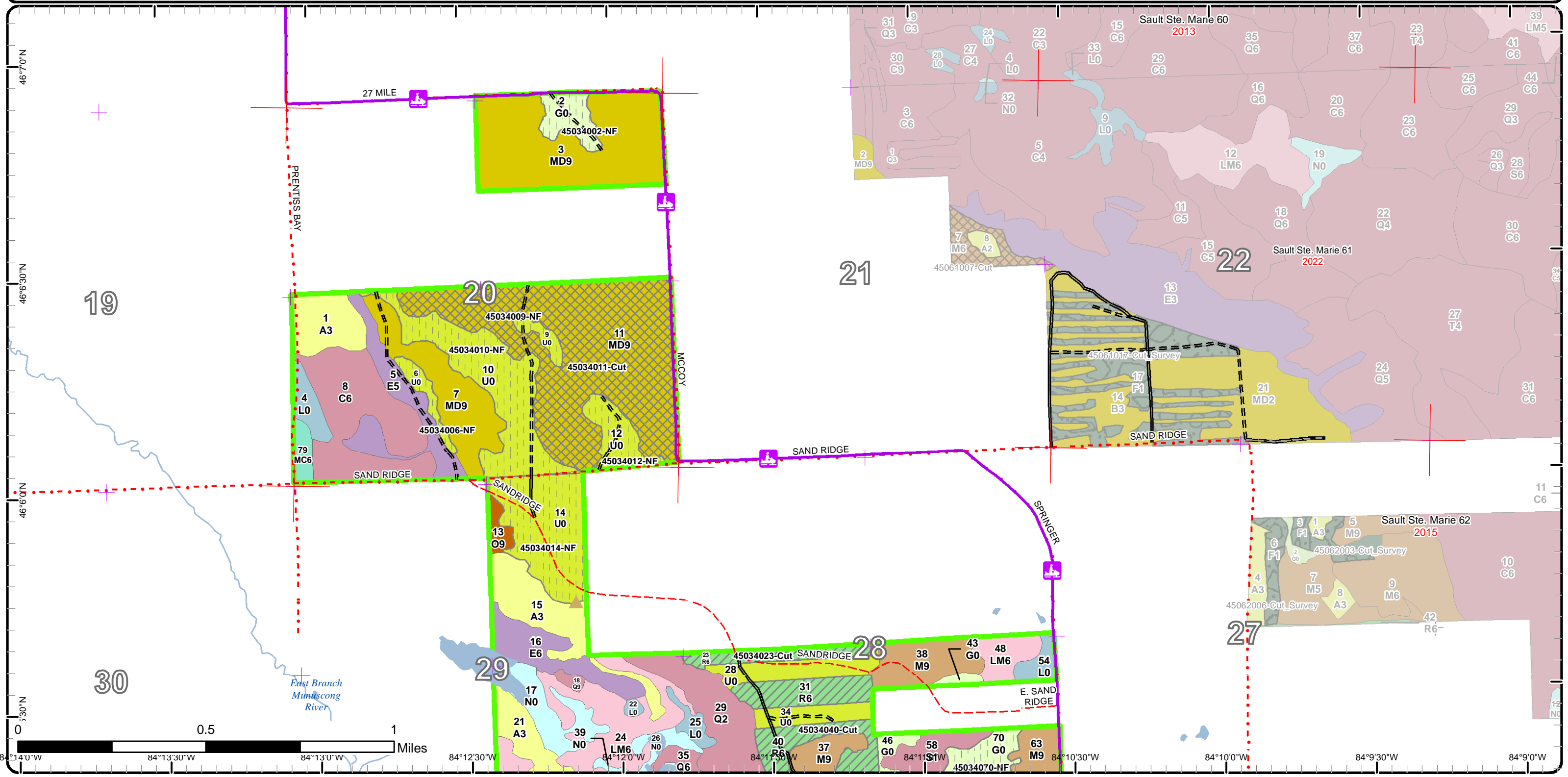


Cover Type & Treatments Map

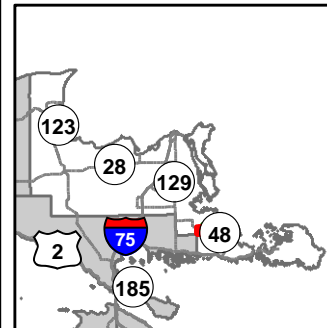


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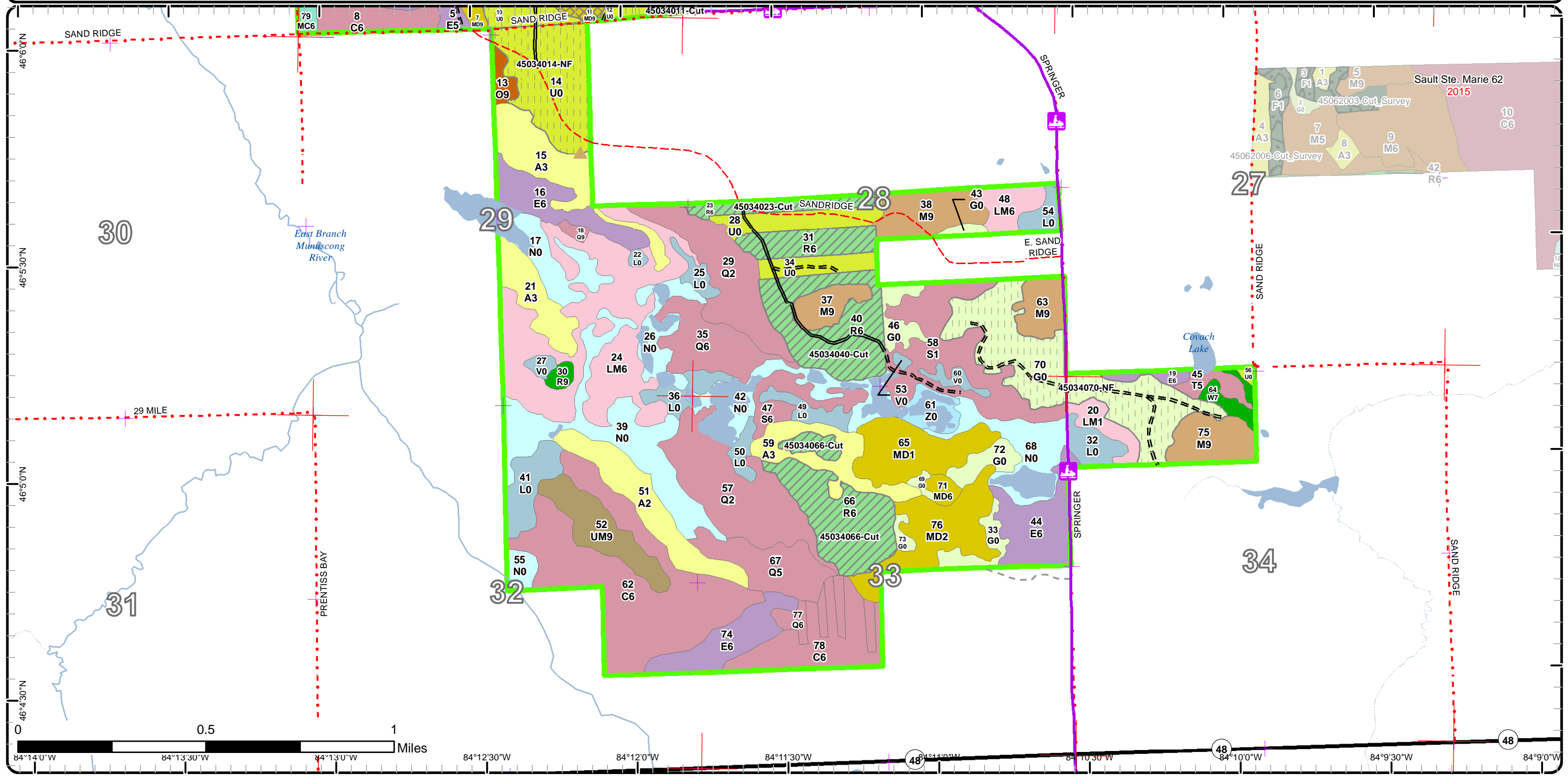


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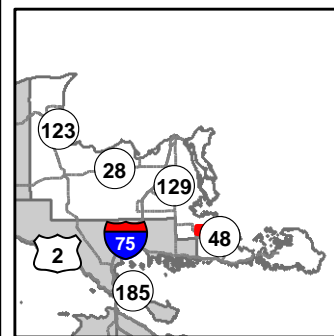


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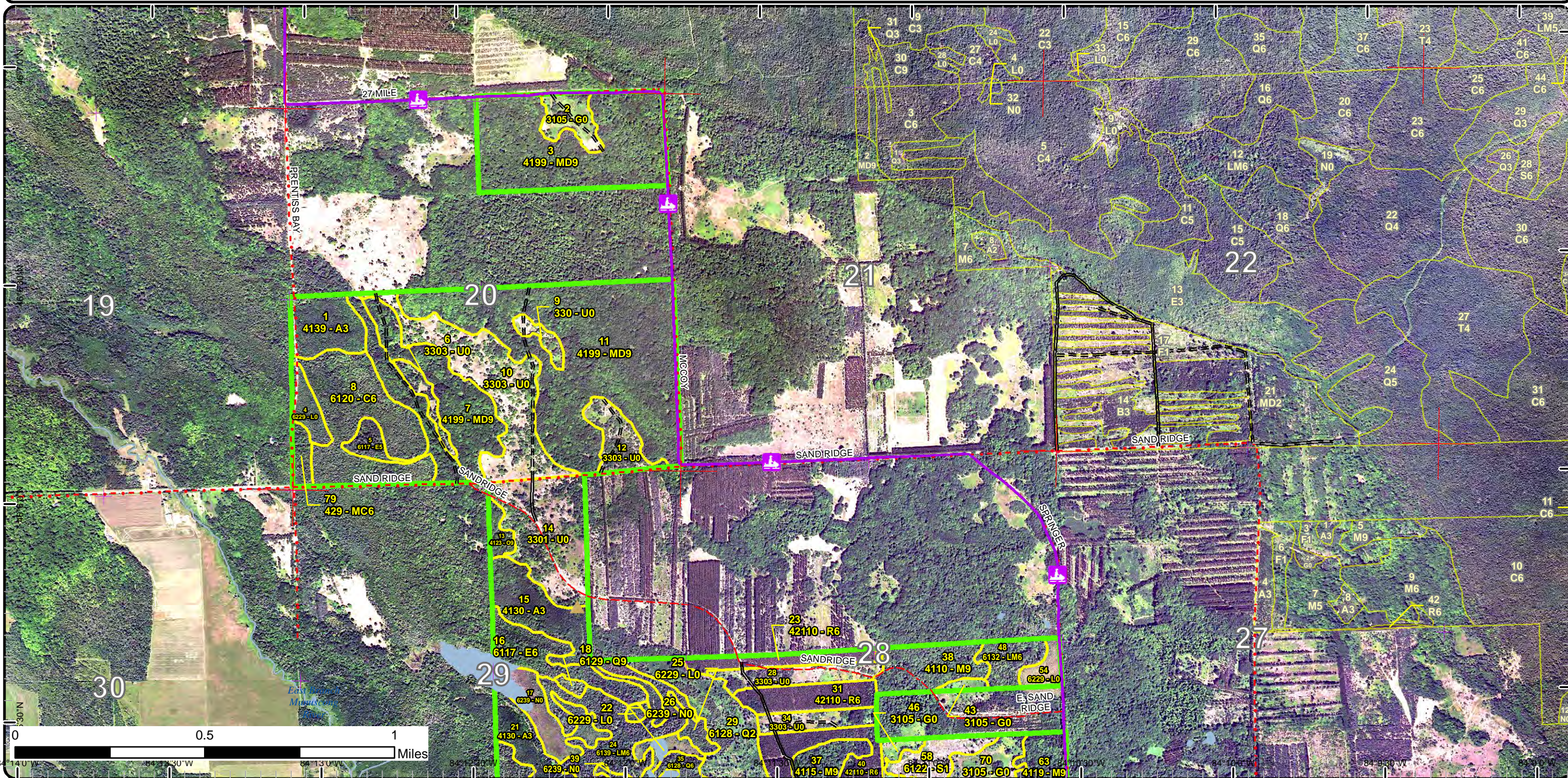


Stand Boundary Map



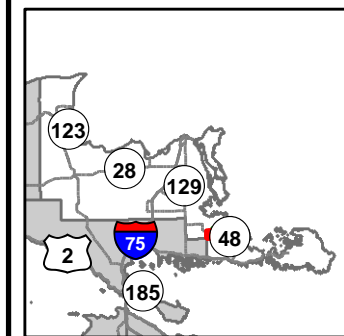
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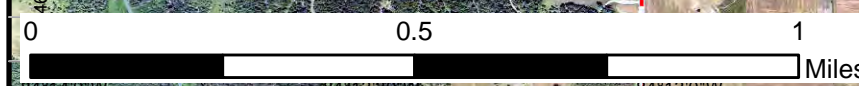
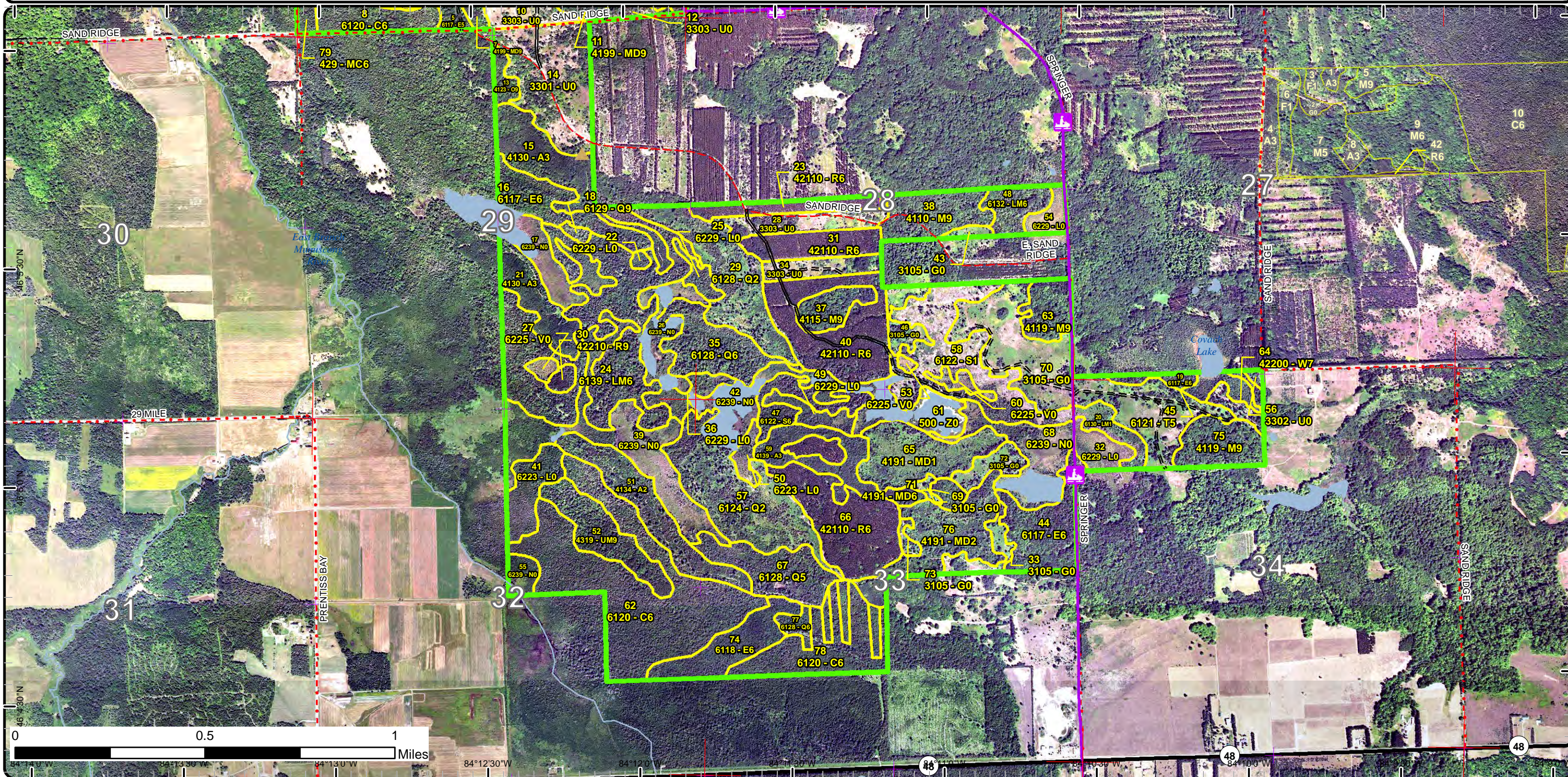


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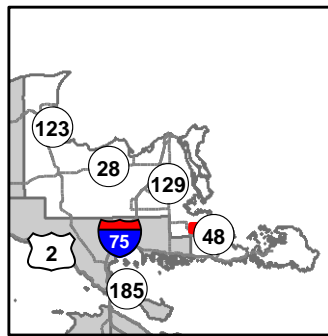
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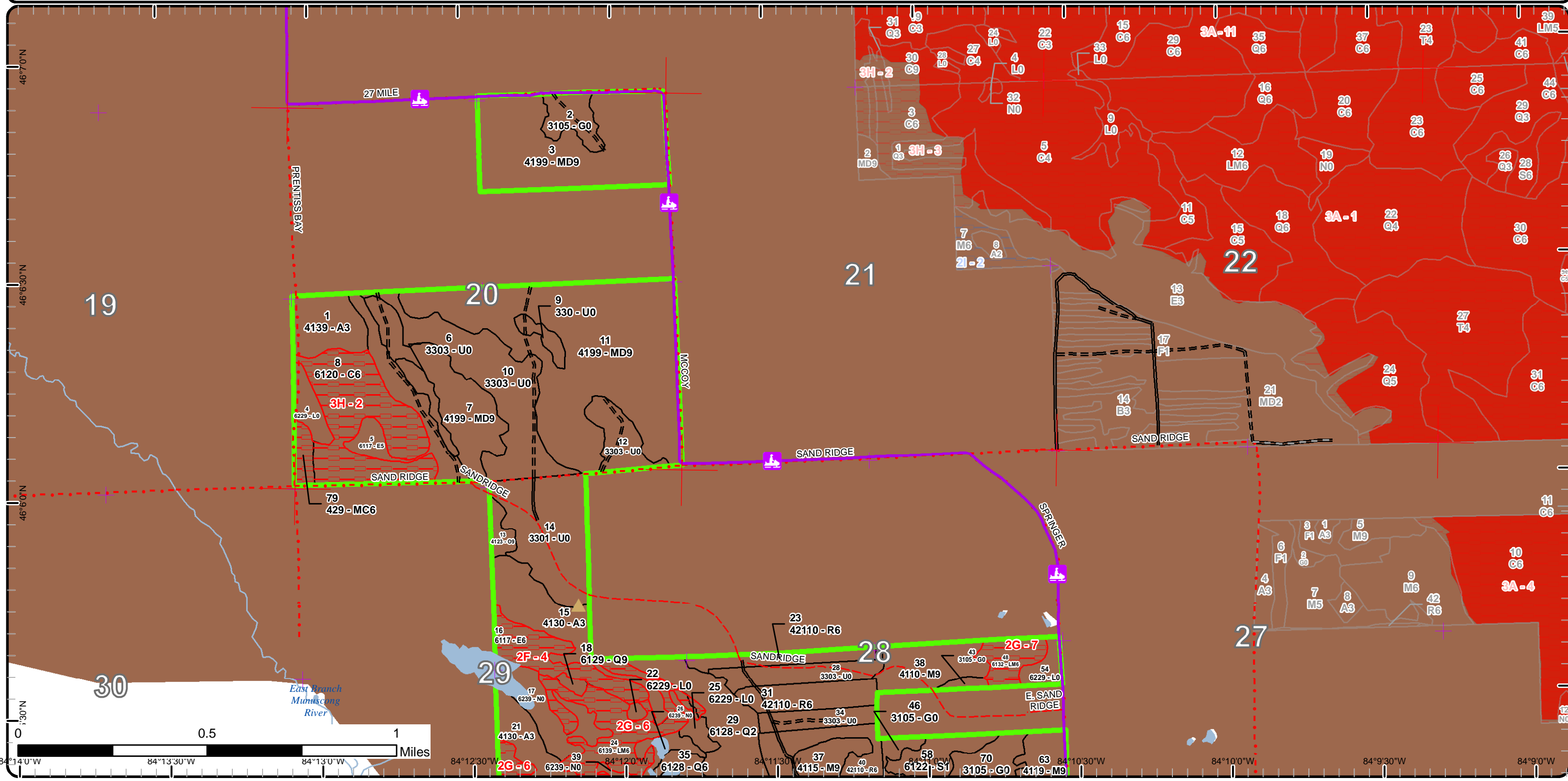
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Special Conservation Areas & Site Conditions Map

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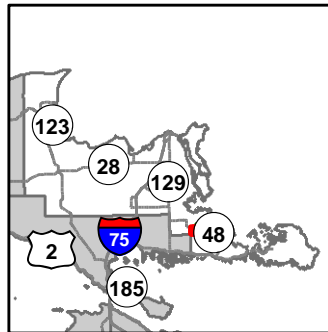


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- Compartment Boundary
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Ecological Reference Areas
- Forest Habitat Core Interior
- Deer Winter Range

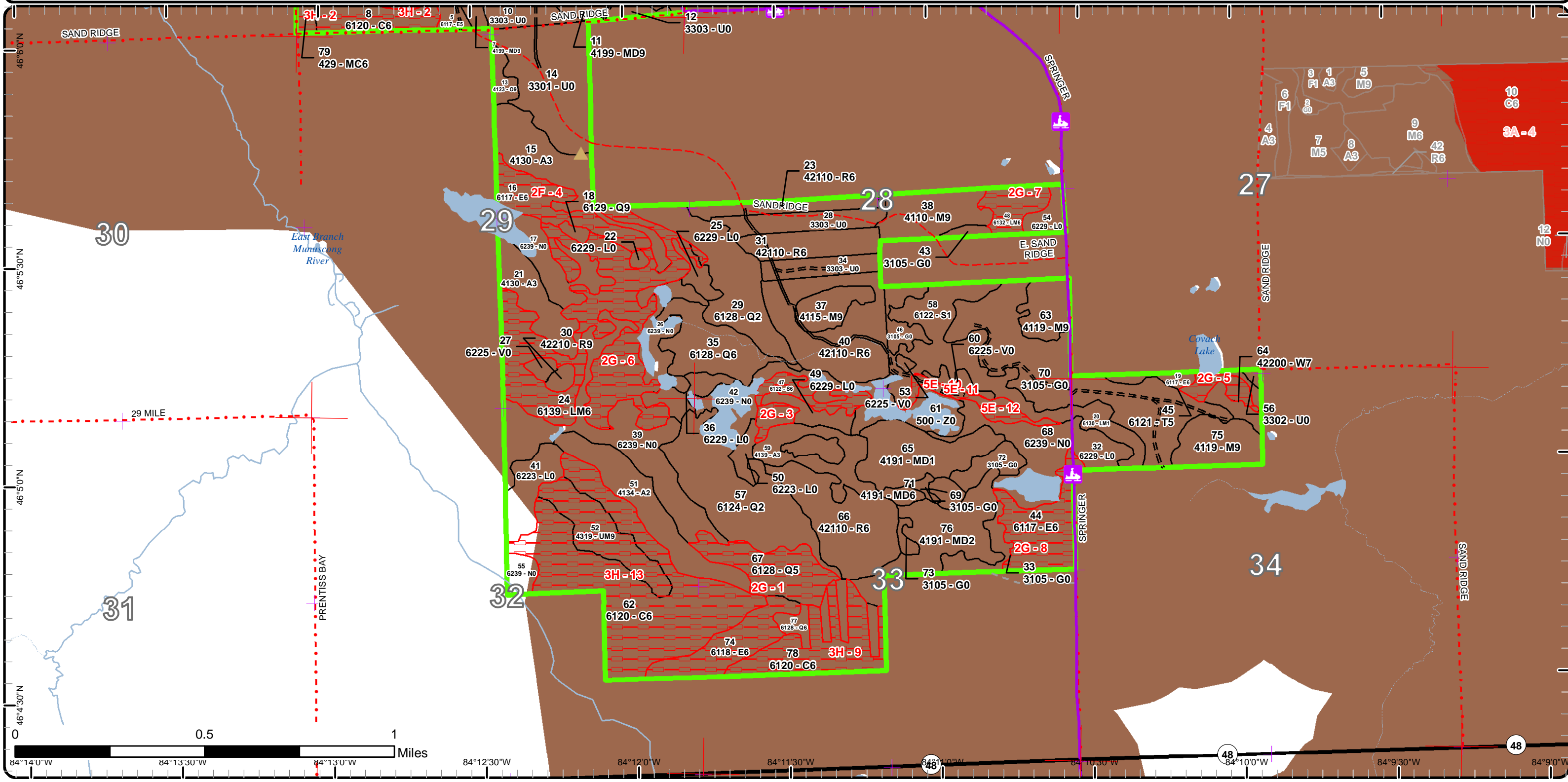


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- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Forest Habitat Core Interior
- Deer Winter Range



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	91	18	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166	166
Herbaceous Openland	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Low-Density Trees	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135
Lowland Conifers	0	0	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	140
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91	91
Lowland Mixed Forest	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	101
Lowland Shrub	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Spruce/Fir	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	57
Marsh	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134
Mixed Upland Deciduous	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	232	291
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	42	59
Oak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	4
Red Pine	0	0	0	0	0	0	106	0	0	0	0	0	0	0	0	0	0	3	109
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Total	447	44	148	91	18	0	106	0	0	0	0	0	17	5	0	0	0	737	1612



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 34
Total Compartment Acres: 1,612

Commercial Harvest - 232
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
Mixed Upland Deciduous	0	126	0	0	0	0	0	0	0	126
Red Pine	0	0	0	0	106	0	0	0	0	106
Total	0	126	0	0	106	0	0	0	0	232

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	232	0	0	0	0	0	0	0	185	417
Next Step	0	0	0	0	0	126	0	0	0	126
Total	232	0	0	0	0	126	0	0	185	543



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	45034002-NF	10.5	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Opening maintenance and scotch pine removal.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
6	45034006-NF	5.5	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Opening maintenance and scotch pine removal.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
9	45034009-NF	4.3	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Opening maintenance and scotch pine removal.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
10	45034010-NF	45.8	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Opening maintenance and scotch pine removal.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											



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
11	45034011-Cut	126.4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	412 - Oak Types	Uneven-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Mark trees to cut to 80 basal area, mark openings for oak regen and/or aspen clones, leaving individual aspen. Remove all scotch pine in SE corner. Do not mark low volume species, retain in the stand. Leave some large wolfy oak, concentrate marking on maple, poor quality and large mature oak (not the Wolfy ones).

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Present species with emphasis on oak.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

12	45034012-NF	12.7	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Opening maintenance and scotch pine removal.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

14	45034014-NF	40.8	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Opening maintenance and scotch pine removal.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

23	45034023-Cut	10.7	42110 - Planted Red Pine	Poetimber Well	56	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark trees to cut to 120 basal area. leave all non pine species where possible.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020



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
31	45034031-Cut	16.0	42110 - Planted Red Pine	Poletimber Well	57	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Mark trees to cut to 120 basal area. Leave all non pine species where possible.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

40	45034040-Cut	38.5	42110 - Planted Red Pine	Poletimber Well	57	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark trees to cut to 120 basal area. Leave all non pine species where possible.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

66	45034066-Cut	40.4	42110 - Planted Red Pine	Poletimber Well	57	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark trees to cut to 120 basal area. Leave all non pine species where possible.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

70	45034070-NF	65.0	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Opening maintenance and scotch pine removal.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 416.6**

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 34

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2F	2G	3H	5E
109	109	0	0	Aspen	0	0		
7	7	0	0	Bog		0		
165	0	0	165	Cedar			165	
103	103	0	0	Herbaceous Openland		0		
135	135	0	0	Low-Density Trees				
140	117	0	24	Lowland Conifers	0	24		
91	26	0	65	Lowland Deciduous	20	45		
101	8	0	93	Lowland Mixed Forest	0	93		
59	59	0	0	Lowland Shrub	0	0		
57	36	0	21	Lowland Spruce/Fir		13		9
134	133	0	0	Marsh	0	0		
291	291	0	0	Mixed Upland Deciduous				
59	59	0	0	Northern Hardwood				
4	4	0	0	Oak				
108	108	0	0	Red Pine		0		
6	0	0	6	Tamarack		6		
5	0	0	5	Upland Conifers			5	
21	0	0	21	Upland Mixed Forest			21	
9	9	0	0	Water				
6	6	0	0	White Pine		0		
1,612	1,211		401	Total Forested Acres	20	180	192	9
	75%		25%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2G: Too wet (sensitive soils, does not include access issues)	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 34

Year of Entry: 2021

2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Definitely deer here							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2F: Too steep	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	83	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: low and wet with cedar and hemlock							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 34

Year of Entry: 2021

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	108	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	4139 - Aspen, Mixed Deciduous	Sapling Well	18.1	35	1-50	N/A	Not yet pole size but looking healthy, ownership extend west of the road, corner is in.																																														
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2	3105 - Mixed Upland Herbaceous	Nonstocked	10.5		Unspecified	No	In pretty good shape, has a clump of hardwoods, good source for sand.																																														
3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	69.7	110	51-80	N/A	Sale 001-11, selection harvest, monitoring has been done for acceptable regen.																																														
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4	6229 - Mixed lowland shrub	Nonstocked	7.5		Unspecified	No	Ownership extends west of the road.																																														
5	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	21.9	81	51-80	N/A	Corridor of lowland/upland transition types including large red maple with some maturing aspen, and white birch. contains an anomaly in stand 8 with a trail to it.																																														
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6	3303 - Mixed Low Density Trees	Nonstocked	5.5		Unspecified	No	Basically the road corridor, filling in with aspen, and cherry brush, and white birch poles.																																														
7	4199 - Other Mixed Upland Deciduous	Sawtimber Well	32.4	90	51-80	N/A	Huge, open grown oaks and maples with lots of regen in pole and sap classes. Aspen clones here and there. Looks like it was open at one time and filled in. Most BA checks were at 80 but many small trees yet to fill in.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
8	6120 - Lowland Cedar	Poletimber Well	49.6	122	81-110	N/A	Hemlock ridge on the north boundary with an old road, nice to walk, and also a ridge on the east side. definitely deer here in winter.																																													
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9	330 - Low-Density Trees	Nonstocked	4.3		Unspecified	No	Contains an old party spot hasn't been used for a few years.																																													
10	3303 - Mixed Low Density Trees	Nonstocked	45.7		Unspecified	No	Filling in with cherry brush and aspen, a few scattered scotch pine.																																													
11	4199 - Other Mixed Upland Deciduous	Sawtimber Well	126.4	85	111-140	N/A	BA varies but hovers around 120, some areas have more poles and show evidence of more recent cutting. Huge oaks throughout the stand, some very nice quality. Age was estimated from the overall looks of oak and maple poles and aspen clones scattered throughout the stand. Traces of yellow birch, white pine, basswood, ironwood, white spruce, and bigtooth aspen...all <2%. Oddly I did not see squirrel nests anywhere in stand?																																													
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12	3303 - Mixed Low Density Trees	Nonstocked	12.7		Unspecified	No	Filling in with scotch pine, white pine, cherry brush and aspen almost to the point of being a forested stand. If scotch pine is removed it will then remain non forested.																																													
13	4123 - Red Oak	Sawtimber Well	4.5	90	51-80	N/A	Scrubby low quality maple and oak with a few aspen clones. FTP for tribal or public sugar bush area. The maple is not worth managing for quality. Old truck bed in stand. Private land to west has been clear cut, line looks ok.																																													
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14	3301 - Low Density Deciduous Trees	Nonstocked	40.9		Unspecified	Managed Opening	Needs opening maintenance, filling in with cherry brush, aspen and maple, will be forested next YOE if not maintained.																																													
15	4130 - Aspen	Sapling Well	26.8	23	Immature	N/A	Nice full regen																																													
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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 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 20.0 91 81-110 N/A Mature but its a steep ridge and wet bottom with cedar, if it could have been cut, it would have been cut .

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole/Log	10	91	Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	15	Log	12		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	10	Pole	8		Black Spruce	Medium	Variable	Sapling
White Spruce	10	Pole/Log	12					
Black Spruce	10	Pole	7					
Northern White Cedar	10	Pole	8					

17 6239 - Mixed Emergent Wetland Nonstocked 18.4 Unspecified No

18 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 1.7 113 51-80 N/A Nice hemlock/cedar stand, oldest stand nearby used as age estimate.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Northern White Cedar	30	Log	16		Balsam Fir	Low	Variable	Sapling
White Pine	10	Log	18		Northern White Cedar	Low	Variable	Pole
Hemlock	60	Log	18	113	Hemlock	Low	Variable	Pole

19 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 4.0 85 51-80 N/A East half is lower " E" type then grades up to aspen/birch on the west.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Balsam Fir	Low	Variable	Sapling
Yellow Birch	10	Pole	8					
Paper Birch	10	Pole	8					
Quaking Aspen	30	Pole	8	85				
Balsam Fir	10	Pole	6					
White Spruce	10	Pole	8					
Black Spruce	10	Pole	6					
Northern White Cedar	10	Pole	8					

20 6130 - Fir, Aspen, Maple Sapling Poor 8.2 11 Immature N/A Sale 45-015-02-01, cut in 2008

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	
Quaking Aspen	25	Sapling	1	11
Balsam Fir	20	Sapling	1	
Black Spruce	20	Sapling	1	
Tamarack	15	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
21	4130 - Aspen	Sapling Well	17.0	23	Immature	N/A	Fully stocked regen		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		30	Sapling	2	23	Red Maple	Medium	Variable	Sapling
Quaking Aspen		30	Sapling	2	23	Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen		30	Sapling	2	23				
Balsam Fir		10	Sapling	2					
22	6229 - Mixed lowland shrub	Nonstocked	1.2		Unspecified	No			
23	42110 - Planted Red Pine	Poletimber Well	10.7	56	111-140	N/A	Good access to all stands.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		100	Pole	7	56				
24	6139 - Mixed Lowland Forest	Poletimber Well	82.2	91	51-80	N/A	As one can see on the map there are swamps, marshes, and drainages throughout this area, this timber is pretty much a wet mixed up mess of low/wet areas with saplings and poles and big pines along the road/trail which is the only high ground.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	5		Balsam Fir	Medium	Variable	Sapling
Paper Birch		15	Pole	6	91	Deciduous Saplings	Medium	Variable	Sapling
Quaking Aspen		10	Sapling/Pole	8		Deciduous Shrubs	Medium	Variable	Tall Shrub
Balsam Fir		10	Sapling/Pole	5		Tag Alder	Medium	Variable	Tall Shrub
White Spruce		10	Pole	8					
Black Spruce		10	Sapling/Pole	5					
Northern White Cedar		10	Pole	10					
25	6229 - Mixed lowland shrub	Nonstocked	4.3		Unspecified	No			
26	6239 - Mixed Emergent Wetland	Nonstocked	14.8		Unspecified	No			
27	6225 - Bog	Nonstocked	2.3		Unspecified	No			
28	3303 - Mixed Low Density Trees	Nonstocked	14.7		Unspecified	No	Nice semi open corridor between the red pine, brush is cherry, aspen, white pine.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 6128 - Lowland Coniferous, Mixed Deciduous Sapling Medium 34.6 11 Immature N/A Sale 45-015-02-01, cut in 2008, second age is residual cedar. Filling in nicely, but with wet pockets.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	20	Sapling	1	
Quaking Aspen	20	Sapling	1	
Balsam Fir	10	Sapling	1	
Black Spruce	30	Sapling	1	11
Northern White Cedar	10	Pole	6	114
White Pine	10	Pole/Log	12	

30 42210 - Natural Red Pine Sawtimber Well 2.7 92 111-140 N/A Nice, mature stand, previously typed as Q9, long way to go just for a little pine but road goes through stand.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	8		Balsam Fir	Low	Variable	Sapling
White Pine	20	Pole/Log	14		Black Spruce	Low	Variable	Sapling
Red Pine	70	Pole/Log	12	92	White Pine	Low	Variable	Sapling
					Red Pine	Medium	Variable	Pole

31 42110 - Planted Red Pine Poletimber Well 16.0 57 111-140 N/A Good access.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Pole	8	57

32 6229 - Mixed lowland shrub Nonstocked 8.3 Unspecified No

33 3105 - Mixed Upland Herbaceous Nonstocked 7.0 Unspecified No Old field borders private, small clump of trees next to cabin.

34 3303 - Mixed Low Density Trees Nonstocked 9.9 Unspecified No Nice corridor between the red pine, brush is cherry, white pine, and aspen.

35 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 24.3 113 51-80 N/A Mostly cedar and hemlock, and wet.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Balsam Fir	Medium	Variable	Sapling
Yellow Birch	10	Pole/Log	12		Hemlock	Low	Variable	Sapling
Paper Birch	10	Pole/Log	12		Tag Alder	Low	Variable	Tall Shrub
Northern White Cedar	40	Pole	8	113				
Hemlock	30	Pole/Log	11					

36 6229 - Mixed lowland shrub Nonstocked 7.7 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
37	4115 - Y.Birch, Hemlock NH	Sawtimber Well	10.3	90	81-110	N/A	Thinned last YOE, looks good, full regen.																																									
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38	4110 - Sugar Maple Association	Sawtimber Well	19.7	95	81-110	N/A	Sale 45-016-02-01 cut in 2004, approaching good quality, LOTS of crop trees.																																									
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39	6239 - Mixed Emergent Wetland	Nonstocked	44.2		Unspecified	No																																										
40	42110 - Planted Red Pine	Poletimber Well	38.5	57	111-140	N/A	Good access.																																									
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41	6223 - Inundated Shrub Swamp	Nonstocked	13.9		Unspecified	No																																										
42	6239 - Mixed Emergent Wetland	Nonstocked	26.7		Unspecified	No																																										
43	3105 - Mixed Upland Herbaceous	Nonstocked	2.2		Unspecified	No	Semi open, brush is cherry, white pine, spruce, and aspen																																									
44	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	24.6	85	51-80	N/A	Mostly lowland hardwood mix with anomalies. One clump of jack pine in the north, a wet area with cedar on the east side. Scattered cedar, pine, and hemlock. Stand is "hummocky" with wet areas.																																									
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45	6121 - Tamarack	Poletimber Medium	6.2	70	1-50	N/A	Treed bog with illegal ORV trail through the middle connecting Sand Ridge Rd to two track in this comp.																																									
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46	3105 - Mixed Upland Herbaceous	Nonstocked	7.4		Unspecified	No	Semi open stand with some brush and saplings.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
47	6122 - Black Spruce	Poletimber Well	12.7	118	51-80	N/A	Long, narrow conifer swamp		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Balsam Fir		10	Pole	8		Balsam Fir	Low	Variable	Sapling
White Spruce		40	Pole/Log	10		White Spruce	Low	Variable	Sapling
Black Spruce		50	Pole/Log	10	118	Black Spruce	Medium	Variable	Sapling
						Tag Alder	Low	Variable	Tall Shrub
48	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	10.6	85	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole/Log	10	85	Red Maple	Low	Variable	Sapling
Quaking Aspen		20	Pole	8		Balsam Fir	Low	Variable	Sapling
Northern White Cedar		20	Pole	6		White Spruce	Low	Variable	Sapling
Hemlock		20	Log	14		Hemlock	Low	Variable	Sapling
						Aspen (spp.)	Low	Variable	Sapling
49	6229 - Mixed lowland shrub	Nonstocked	6.5		Unspecified	No			
50	6223 - Inundated Shrub Swamp	Nonstocked	4.3		Unspecified	No			
51	4134 - Aspen, Spruce/Fir	Sapling Medium	27.2	23	Immature	N/A	Filling in nicely.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		20	Sapling	2					
Paper Birch		10	Sapling	2					
Quaking Aspen		25	Sapling	2	23				
Bigtooth Aspen		15	Sapling	2					
Balsam Fir		20	Sapling	2					
White Spruce		10	Sapling	2					
52	4319 - Mixed Upland Forest	Sawtimber Well	21.3	111	51-80	N/A	Neat stand with large white birch and cedar. East part has a large pocket of birch regen 4-6 inches, would be considered for retention if cut.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch		30	Pole/Log	12	111	Balsam Fir	Low	Variable	Sapling
Quaking Aspen		10	Pole	1					
Balsam Poplar		10	Pole	1					
Balsam Fir		10	Pole	1					
White Spruce		10	Log	14					
Black Spruce		10	Pole	1					
Northern White Cedar		20	Pole/Log	12					
53	6225 - Bog	Nonstocked	1.0		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
54	6229 - Mixed lowland shrub	Nonstocked	5.7		Unspecified	No																																					
55	6239 - Mixed Emergent Wetland	Nonstocked	5.0		Unspecified	No																																					
56	3302 - Low Density Conifer Trees	Nonstocked	1.1		Unspecified	No	Field at corner of road filling in with pine.																																				
57	6124 - Lowland Spruce-Fir	Sapling Medium	46.5	11	Immature	N/A	Sale 45-015-02-01, cut in 2009, second age is residual cedar, filling in nicely.																																				
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58	6122 - Black Spruce	Sapling Poor	44.1	5	Immature	N/A	Sale 007-11, was black spruce, contains white pine ridges, south part is retention, or new stand, regen is scattered but sufficient.																																				
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59	4139 - Aspen, Mixed Deciduous	Sapling Well	20.1	26	Immature	N/A	Wet in the north with lowland brush and more conifers, nice regen.																																				
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60	6225 - Bog	Nonstocked	3.5		Unspecified	No																																					
61	500 - Water	Nonstocked	9.0		Unspecified	No																																					
62	6120 - Lowland Cedar	Poletimber Well	86.3	105	1-50	N/A																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
63	4119 - Mixed Northern Hardwoods	Sawtimber Well	12.0	80	51-80	N/A	Sale 001-11, has been monitored for regen of present species.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		60	Pole/Log	12	80	Sugar Maple	Low	Variable	Sapling
Yellow Birch		10	Pole/Log	12		Red Maple	Low	Variable	Sapling
Bigtooth Aspen		10	Pole/Log	10		Yellow Birch	Low	Variable	Sapling
Red Pine		10	Pole	8		Bigtooth Aspen	Low	Variable	Sapling
64	42200 - Natural White Pine	Sawtimber Poor	6.0	160	1-50	N/A	Mainly a white pine stand, some are big multi stemmed monsters and others are good. Thinned last YOE, along with all other species, mostly black spruce.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
White Pine		100	Log	18	160	White Pine	Low	Variable	Sapling
65	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	27.8	11	Immature	N/A	Sale 45-015-02-01, cut in 2008		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		30	Sapling	1	11				
Paper Birch		20	Sapling	1					
Quaking Aspen		20	Sapling	1					
Balsam Fir		20	Sapling	1					
White Spruce		10	Sapling	1					
66	42110 - Planted Red Pine	Poletimber Well	40.4	57	111-140	N/A	Private access.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		100	Pole	8	57				
67	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	22.9	118	51-80	N/A	East part cut in sale 45-015-02-01, became new stand 57, west part 67, was/is too wet.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Pole	8		Balsam Fir	Medium	Variable	Sapling
Balsam Fir		10	Pole	8		Tag Alder	Medium	Variable	Tall Shrub
White Spruce		10	Pole/Log	10					
Black Spruce		10	Pole	6					
Northern White Cedar		40	Pole	8	118				
68	6239 - Mixed Emergent Wetland	Nonstocked	24.4		Unspecified	No			
69	3105 - Mixed Upland Herbaceous	Nonstocked	1.5		Unspecified	No	Small opening of brush and grasses.		
70	3105 - Mixed Upland Herbaceous	Nonstocked	65.0		Unspecified	No	Slowly filling in with scattered pine and spruce, scotch pine removed last YOE, but seedlings sprouting and some larger scattered that were missed.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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71 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 3.5 85 51-80 N/A Clear cuts on both sides (st 65 and 76) with regen less than 3 feet. leave for wildlife pocket.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole/Log	10	85	Red Maple	Medium	Variable	Sapling
Paper Birch	10	Pole	6		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	30	Pole	8		White Spruce	Low	Variable	Sapling
Balsam Fir	10	Pole	6					
White Spruce	10	Pole/Log	10					

72 3105 - Mixed Upland Herbaceous Nonstocked 7.4 Unspecified No Old field filling in with pine, spruce, and aspen.

73 3105 - Mixed Upland Herbaceous Nonstocked 2.1 Unspecified No Small brushy area of grasses and saplings.

74 6118 - Lowland Deciduous with Cedar Poletimber Well 20.6 82 51-80 N/A Wet stand of lowland species , good mix.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch	20	Pole	6		Balsam Poplar	Medium	Variable	Sapling
Balsam Poplar	40	Pole	6	82	Balsam Fir	Medium	Variable	Sapling
Black Spruce	20	Pole	6		Tag Alder	Medium	Variable	Tall Shrub
Northern White Cedar	20	Pole	6					

75 4119 - Mixed Northern Hardwoods Sawtimber Well 17.1 110 51-80 N/A Thinned last YO. looks good, full regen

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole/Log	12	110	Sugar Maple	Medium	Variable	Sapling
Red Maple	20	Pole/Log	12		Red Maple	Low	Variable	Sapling
Yellow Birch	10	Pole/Log	12		Ironwood	Medium	Variable	Sapling
Red Oak	10	Pole/Log	12					

76 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 31.4 11 Immature N/A Sale 45-015-02-01, cut in 2008, filling in nicely.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Sapling	1	
Red Maple	10	Sapling	1	
Paper Birch	10	Sapling	1	
Quaking Aspen	25	Sapling	1	11
Balsam Fir	20	Sapling	1	
White Spruce	10	Sapling	1	
Black Spruce	10	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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77 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 10.2 40 1-50 N/A Old strip cuts filling in with lowland species.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	15	Sapling/Pole	4	
Quaking Aspen	25	Pole/Sapling	5	40
Balsam Fir	20	Pole/Sapling	5	
Black Spruce	20	Sapling	4	
Northern White Cedar	10	Sapling	3	
Tamarack	10	Sapling/Pole	4	

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	Medium	Variable	Sapling
Willow spp.	Low	Variable	Tall Shrub

78 6120 - Lowland Cedar Poletimber Well 29.6 113 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	1	
White Spruce	10	Pole/Log	10	
Black Spruce	10	Pole	6	
Northern White Cedar	70	Pole/Log	12	113

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling

79 429 - Mixed Upland Conifers Poletimber Well 5.2 122 51-80 N/A New stand, was part of 8 but is very different.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole	8	40
White Pine	50	Log/Pole	10	122
White Spruce	10	Pole	8	

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling