



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45195

Entry Year 2020

Acreage: 1,810

County Mackinac

Management Area: Battydoe Deer Yard

Revision Date: 2018-08-01

Stand Examiner: Jennifer Burnham

Legal Description:

T42N-R12W Sections 22, 26, & 27; Newton Township

Identified Planning Goals:

The compartment lies in the very southwest part of the area managed by the Naubinway Field Office and is part of the proposed Battydoe Management Area. Plans for this Management Area are currently being written. The area is known as the Batty Doe Lake Area and is in a high use winter deer yarding area. This compartment has been actively managed to promote age class diversity in the aspen/mixed deciduous forest stands. While the hardwood is poorer quality, it too has been extensively managed in previous entry years. These harvesting cycles have increased the younger age classes within this compartment. The aspen/mixed deciduous stands have regenerated well with a large number of different species. Batty Doe Lake is present within the compartment along with the Milakokia River.

Soil and topography:

The topography of the compartment is relatively level ground. Low lying wet ground mixed with slightly higher dry ground. The soils present are as follows: Beavertail Muck, Markey and Carbondale Muck, Paquin-Finch, Paquin, Springlake, Mattix, Spot-Finch Complex, Heinz, and Cozy.

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

The compartment has one small private parcel in Section 27, on Batty Doe Lake. State of Michigan lands border the compartment to the south, east and west. To the north, State of Michigan lands and Plum Creek land borders the compartment. The Plum Creek land is currently for sale.

Unique Natural Features:

Batty Doe Lake and the Milakokia River are major water bodies within the compartment. There is evidence of some old building foundations in some of the grass openings in the compartment. 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:

Old homestead areas are present with remnants of foundations in some of the grass openings within the compartment.

Special Management Designations or Considerations:

This compartment was part of the proposed Batty Doe Deeryard Management Plan.

Watershed and Fisheries Considerations:

The western region of this compartment contains the Milakokia River. The Milakokia River is a non-designated stream less than 50' width. A 100' plus 5' per 1% increase in slope; buffer is recommended to protect Milakokia Lake riparian areas in accordance with Best Management Practices (specifically stand 16). The southern region of this compartment contains the northern shore of Batty Doe Lake. A 100' plus 5' per 1% increase in slope; buffer is recommended to protect Batty Doe Lake shoreland areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is in the Battydoe Deer Yard MA where featured wildlife species include red-shouldered hawk, ruffed grouse, snowshoe hare, and white-tailed deer. The entire compartment is located in deer wintering complex, and deer use is evident in the area. Battydoe Lake is along the southern compartment line. Cedar stands and lowland conifer stands with a high component of cedar are common, and provide cover for wintering deer. They will be retained to continue providing this critical habitat feature, which will also benefit bear, bobcat, snowshoe hare, and a variety of other species. Other common cover types include hardwoods and mixed stands. A number of these were harvested in the past and are now regenerating. They offer young cover and food items to deer, snowshoe hare, ruffed grouse, woodcock, and various

other species. Some mature stands on the southwest portion are maturing and will be treated to offer young cover, while others are former openings that are intended to be reclaimed to offer break-out areas for wintering deer. Harvests will generally take place during the winter so tops are available to wintering deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand & gravel and peat & muck. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine and Manistique Groups subcrop below the glacial drift. The Engadine is quarried for stone/limestone four miles to the northwest. 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:

Batty Doe Lake Road is the major access road to the compartment, running east and west. Buckeye road provides access north through the compartment, along with Finn Grade running east from the Buckeye Road. Several small woods roads also provide access to the compartment.

Survey Needs:

There is potential for survey work in section 22 in the north where treatments may take place.

Recreational Facilities and Opportunities:

The primary form of recreation in the compartment is deer hunting. Other forms of hunting, such as small game, are also done along with trapping. There is evidence of ORV use and some snowmobile traffic although its not via a groomed trail (mainly trappers). There is also some evidence of ice fishing on the lake.

Fire Protection:

Fire protection is not a major concern in the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

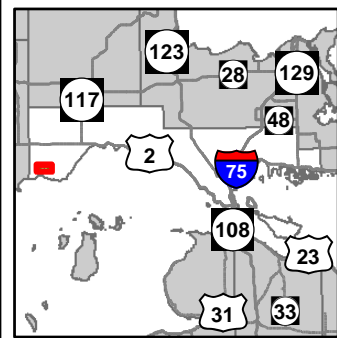
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

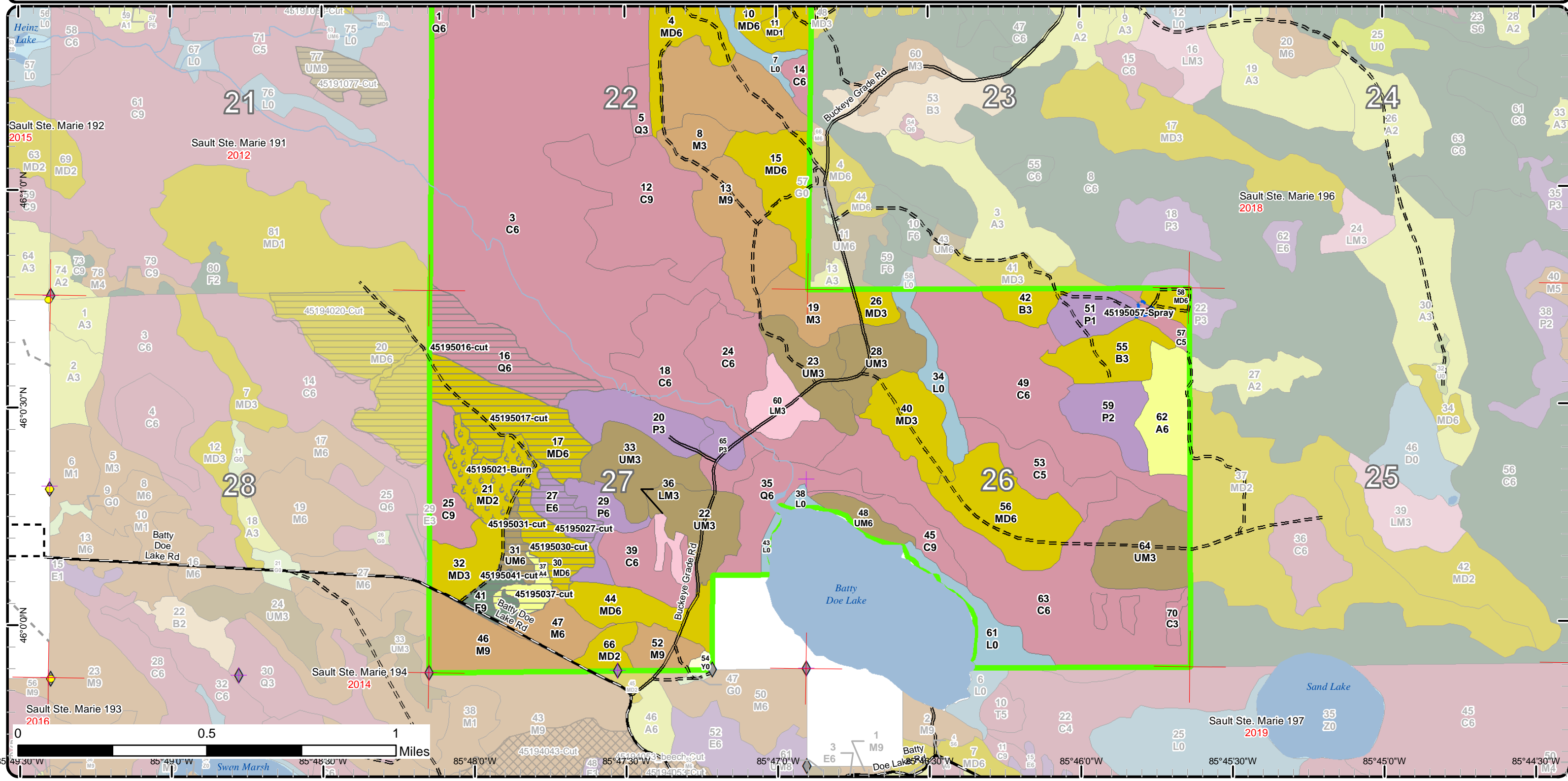
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 195
 T42N, R12W, Sec: 22, 27, 26
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Battydoe Deer Yard
 YOE: 2020
 Acres: 1,810 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 12/13/2018
 Map Phase: Post Review

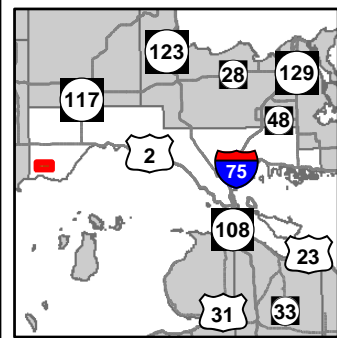


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- - - Federal / State - Dirt / Gravel Road
- - - Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Pesticide
- Prescribed Burn
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub
- 710 - Sand/Soil
- Lakes

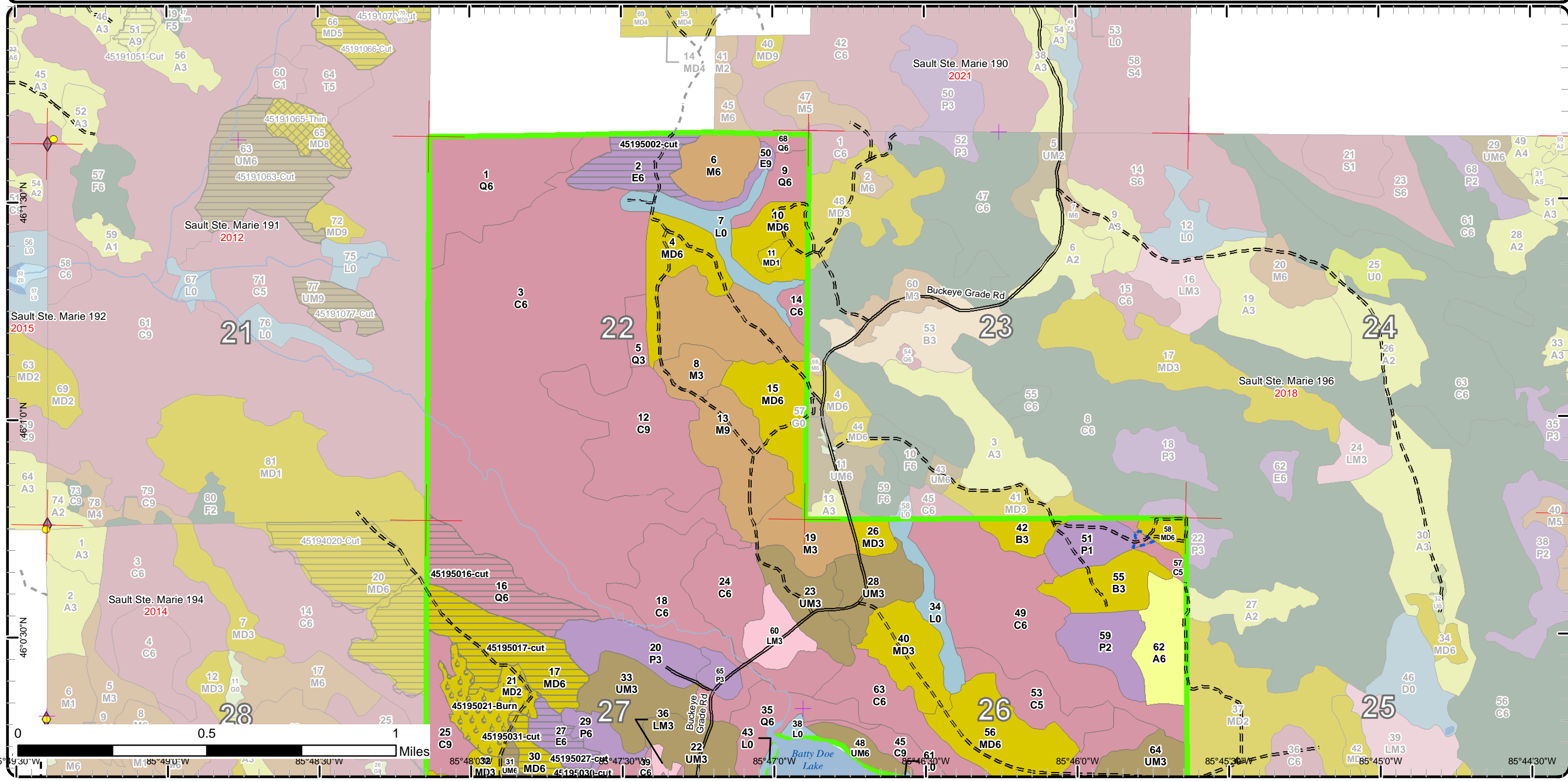


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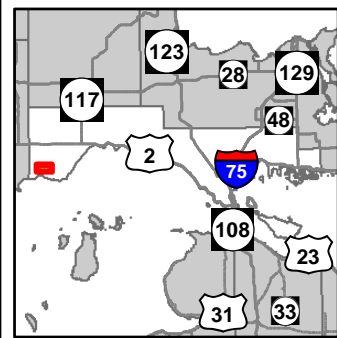


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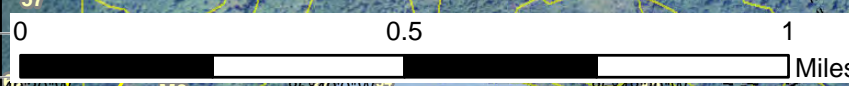
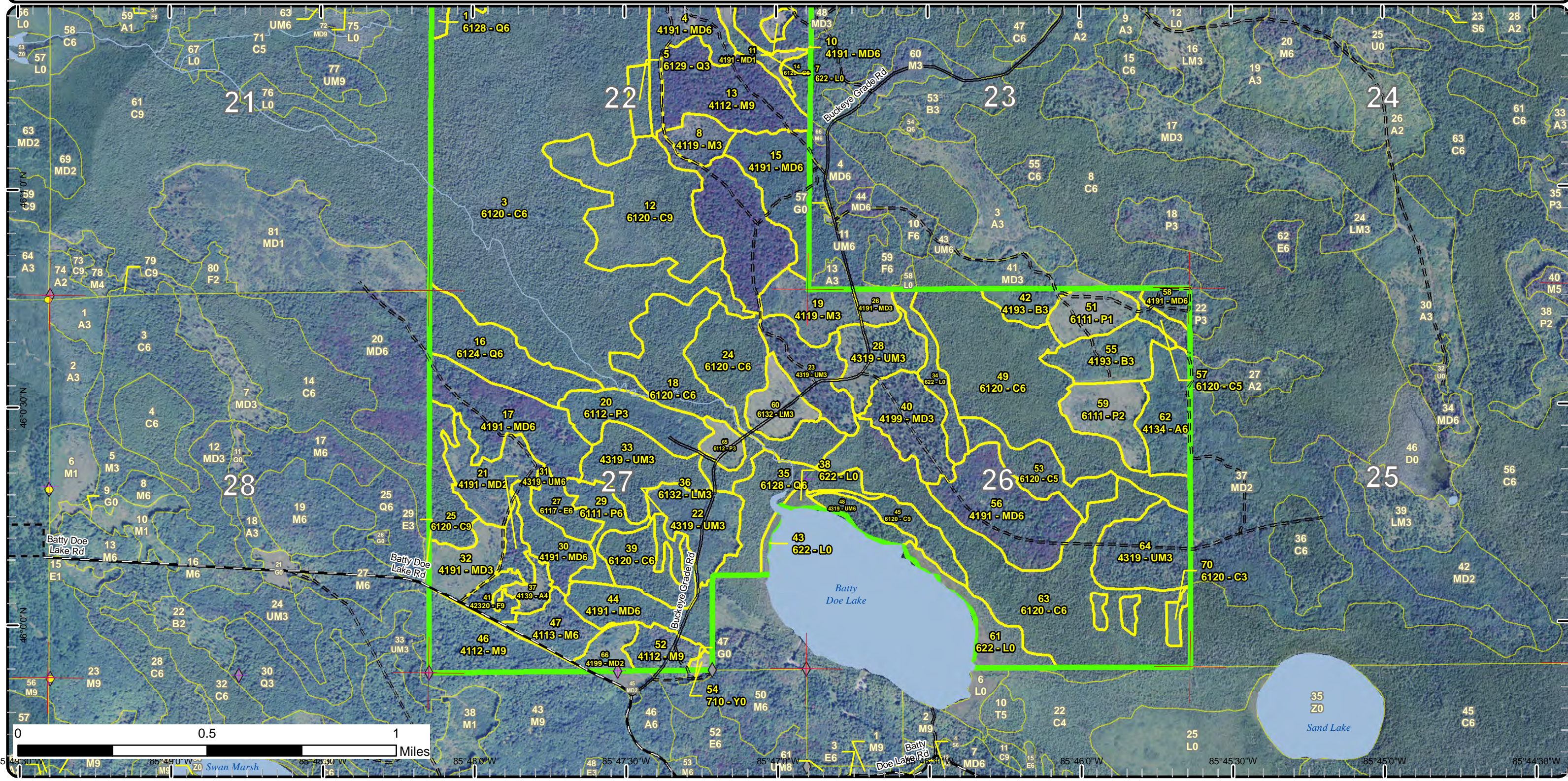


Stand Boundary Map

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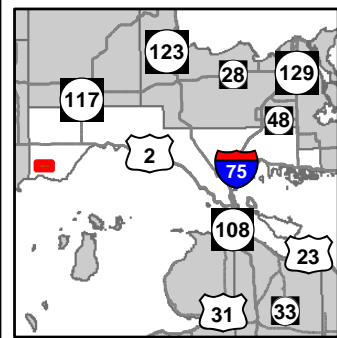
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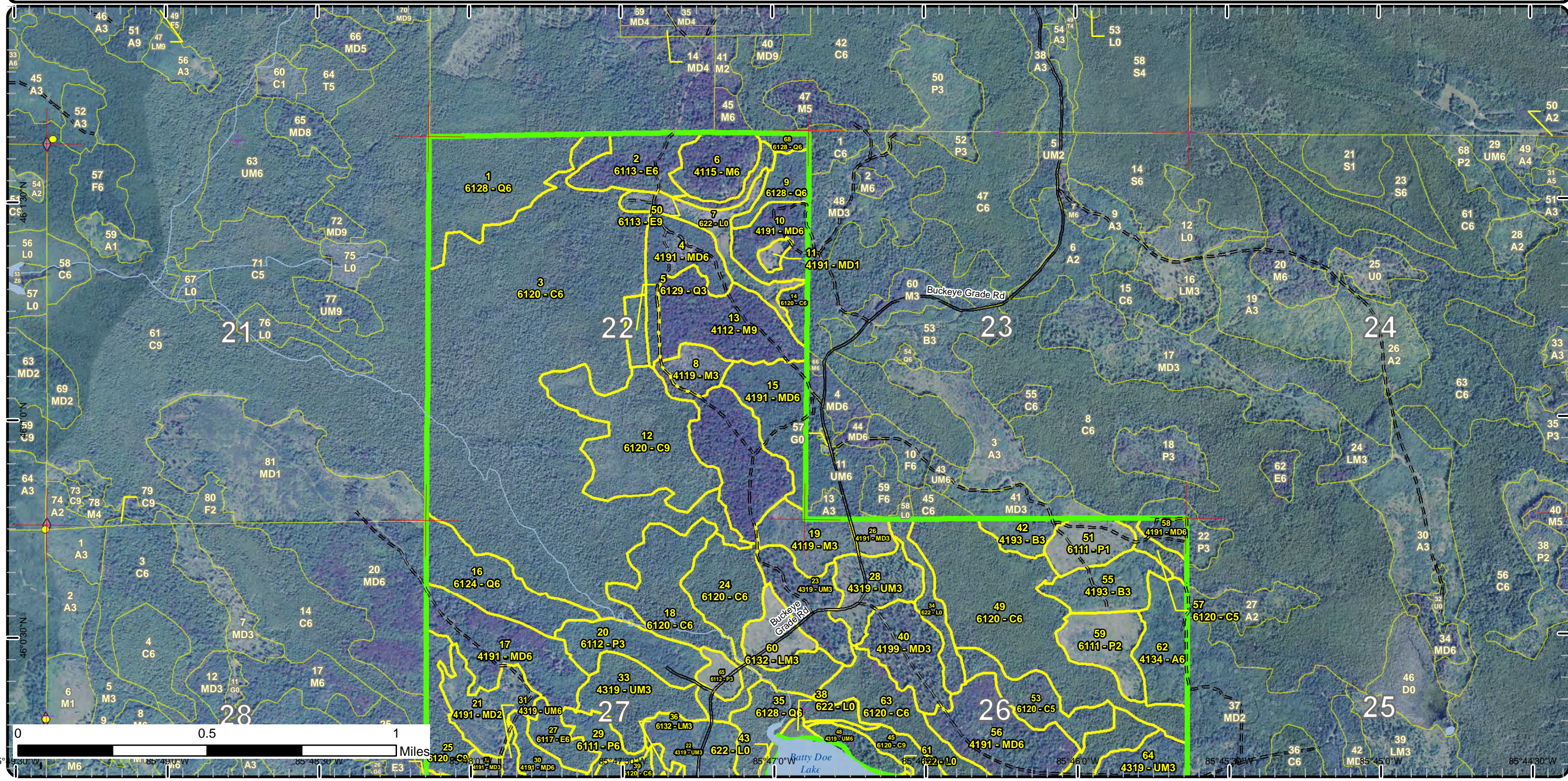
85°49'30"W M9 85°49'00"W M8 85°48'30"W M7 85°48'00"W M6 85°47'30"W M5 85°47'00"W M4 85°46'30"W M3 85°46'00"W M2 85°45'30"W M1 85°44'30"W

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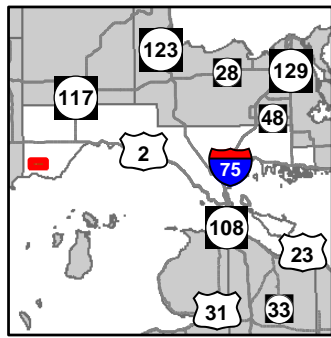
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85°49'30"W 85°48'30"W 85°47'30"W 85°46'30"W 85°45'30"W

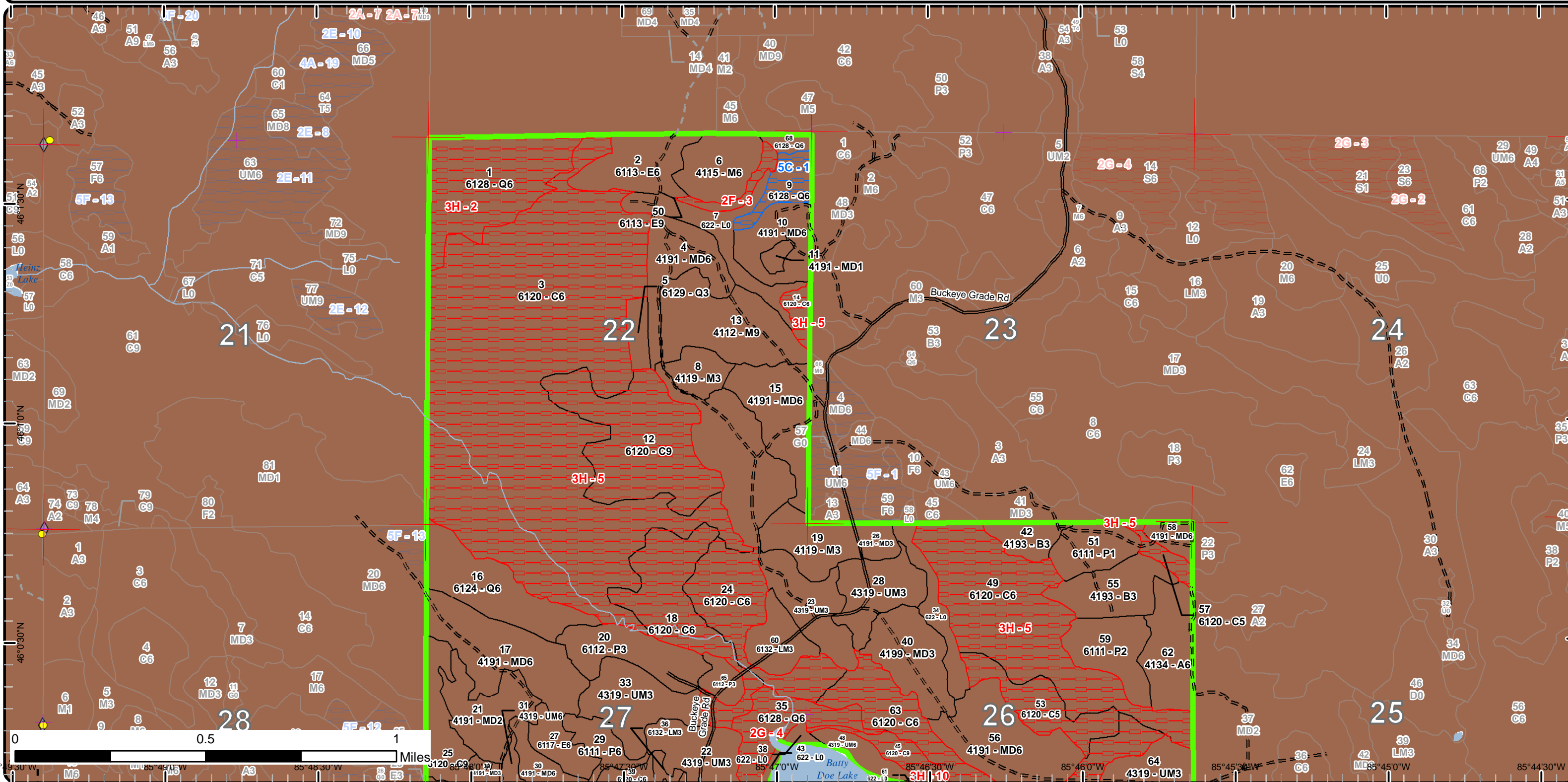
46°03'0"N 46°02'0"N 46°01'0"N 45°59'0"N 45°58'0"N 45°57'0"N 45°56'0"N 45°55'0"N 45°54'0"N 45°53'0"N 45°52'0"N 45°51'0"N 45°50'0"N

Special Conservation Areas & Site Conditions Map

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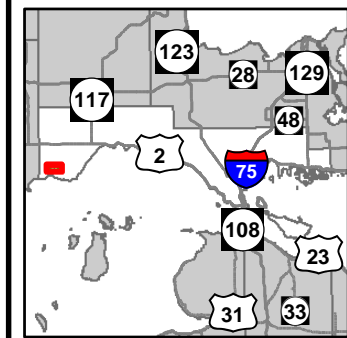


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Deer Winter Range

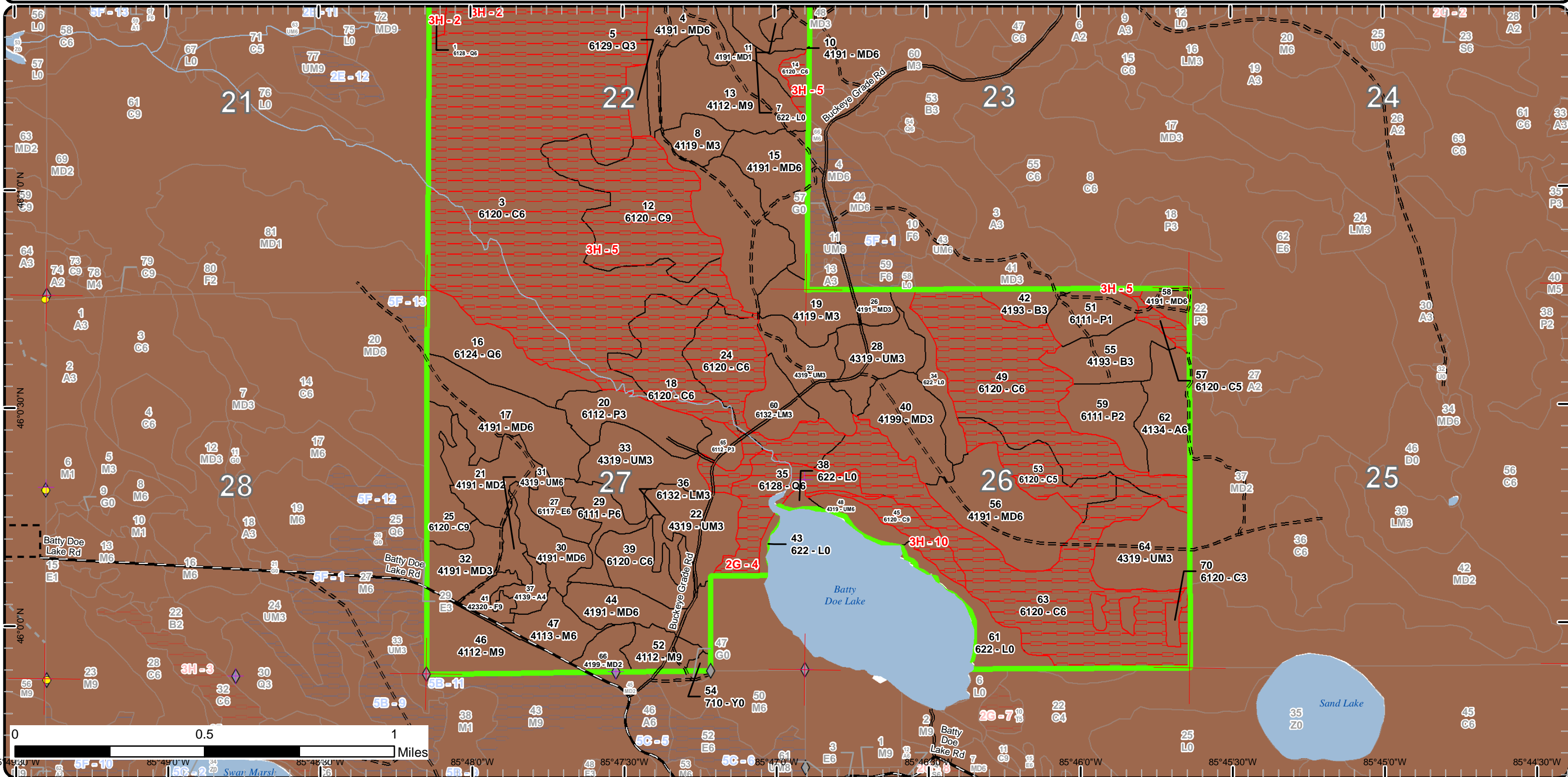


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Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit

Compartment 195 Year of Entry 2020

Jennifer Burnham : Examiner



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	7	25	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Cedar	0	0	0	0	8	0	0	0	63	0	0	357	61	282	0	0	0	0	771
Lowland Aspen/Balsam Poplar	0	45	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	83
Lowland Conifers	0	0	0	0	6	0	0	34	0	0	27	0	54	0	15	0	0	0	136
Lowland Deciduous	0	0	0	0	0	0	0	0	11	29	0	0	0	0	0	0	0	0	40
Lowland Mixed Forest	0	15	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Shrub	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Mixed Upland Deciduous	0	15	44	28	54	93	0	0	57	0	0	0	0	0	0	0	0	0	291
Northern Hardwood	0	0	0	20	10	0	0	0	27	51	82	0	0	0	0	0	0	0	190
Paper Birch	0	0	10	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
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	23	24	54	38	0	0	0	9	0	0	0	0	0	0	0	0	0	148
Upland Spruce/Fir	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Total	59	98	78	132	180	98	8	34	167	80	109	357	115	282	15	0	0	0	1811



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 195
Total Compartment Acres: 1,810

Commercial Harvest - 148
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	7	0	0	0	0	0	0	0	0	7
Lowland Conifers	34	0	0	0	0	0	0	0	0	34
Lowland Deciduous	35	0	0	0	0	0	0	0	0	35
Mixed Upland Deciduous	57	0	0	0	0	0	0	0	0	57
Upland Mixed Forest	7	0	0	0	0	0	0	0	0	7
Upland Spruce/Fir	8	0	0	0	0	0	0	0	0	8
Total	148	0	0	0	0	0	0	0	0	148

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	148	0	0	0	25	1	0	0	0	174
Next Step	0	0	25	0	22	0	152	0	0	198
Total	148	0	25	0	47	1	152	0	0	372



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	45195002-cut	23.7	6113 - Lowland Maple	Poletimber Well	88	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Final harvest leaving cedar, hemlock and any white pine that are found. Harvest in winter (Dec. 1 - Mar. 31) for deer yard and soil protection.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration includes species that are present now.

Regen:

Other The "leg" of the stand could be left and treated with stand 6 in 10 years, allowing for a better red line.

Comment:

Proposed Start Date: 10/1 /2019

16	45195016-cut	34.3	6124 - Lowland Spruce-Fir	Poletimber Well	65	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest leaving cedar. Winter harvest (Dec. 1 - Mar. 31) for deer yard. May need to delay treatment 5 years, due to harvest in adjacent compartment. Leave all cedar.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration includes those species that are present now

Regen:

Other Did not see white pine or hemlock but no harvesting if present. There was no deer use in the stand this winter.

Comment:

Proposed Start Date: 10/1 /2019

17	45195017-cut	41.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	72	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest leaving retention areas. Harvest in the winter is not necessary because of high ground but may be needed due to deer yard.

Specs: May need to delay treatment 5 years, due to harvest in adjacent compartment. Winter harvest (Dec. 1 - Mar. 31) due to deer yard.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration includes those species that are present now.

Regen:

Other Do not harvest cedar, white pine, or hemlock if found. There is more near the edges than scattered through the stand.

Comment:

Proposed Start Date: 10/1 /2019

21	45195021-Burn	24.6	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	23	1-50	Burn	Opening	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Burn, herbicide and/or mechanical treatment to reduce woody vegetation for opening maintenance for breakout area in deer yard.

Specs:

Next Step Monitoring, Other - Specify; Planting, Other - Specify

Treatments:

Acceptable No regeneration is wanted in this area.

Regen: Plant oak or other wildlife trees in opening after treatment is completed.

OtherComment:

Proposed Start Date: 10/1 /2019



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
27	45195027-cut	11.0	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	72	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Final harvest all species except for cedar. Harvest in frozen conditions for soil protection and deer yard.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration includes those species that are present now.

Other Comment:

Other Comment:

Other Comment:

Proposed Start Date: 10/1 /2019

30	45195030-cut	15.9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	74	51-80	Harvest	Clearcut with Retention	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest leaving any cedar that is present. Winter harvest (Dec. 1 - Mar. 31) for deer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration includes those species that are already present.

Other Comment:

Other Comment: If more retention is needed add pockets where there is a good representation of over story species.

Other Comment:

Proposed Start Date: 10/1 /2019

31	45195031-cut	6.8	4319 - Mixed Upland Forest	Poletimber Well	38	Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest with no retention. After harvest burn with stand 21 to help reduce slash and promote grasses for break out area for deer. Winter harvest.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable Regen: No regeneration wanted. Make opening for break out areas in deer yard.

Other Comment:

Other Comment:

Other Comment:

Proposed Start Date: 10/1 /2019

37	45195037-cut	7.2	4139 - Aspen, Mixed Deciduous	Poletimber Poor	25	1-50	Harvest	Clearcut	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest with adjacent stands. Then burn to help with slash reduction and grasses. Winter harvest.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable Regen: No regeneration wanted.

Other Comment:

Other Comment:

Other Comment:

Proposed Start Date: 10/1 /2019



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
41	45195041-cut	7.9	42320 - Upland Spruce	Sawtimber Well	51	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Final harvest with no retention. Did not see cedar in the stand but no harvesting if found.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable Acceptable regeneration includes species that are present now.

Regen:

Other Stand could also be added into the burn area for more opening or replanted to conifer (jack pine and or oak) with boundaries better for burning and planting.

Proposed Start Date: 10/1 /2019

57	45195057-Spray	0.8	6120 - Lowland Cedar	Poetimber Medium	108	81-110	Pesticide	Hand Application	6120 - Lowland Cedar	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition: Deer Wintering Area**

Prescription Couple stalks of phragmites. Area should be treated to catch spread while still small.

Specs:

Next Step Monitoring, Invasive Species

Treatments:

Acceptable

Regen:

Other I only saw a couple stalks directly next to the forest road. There is potential for more in the area.

Comment:

Proposed Start Date: 4 /11/2018

**Total Treatment
Acreage Proposed: 173.5**

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 195
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2F	2G	3H
		With Condition	Not Available					
32	32	0	0	Aspen				
770	47	0	723	Cedar				723
83	83	0	0	Lowland Aspen/Balsam Poplar				
137	44	11	81	Lowland Conifers	11		27	54
40	35	0	5	Lowland Deciduous		5		
20	20	0	0	Lowland Mixed Forest				
57	57	0	0	Lowland Shrub				
291	291	0	0	Mixed Upland Deciduous				
190	190	0	0	Northern Hardwood				
32	32	0	0	Paper Birch				
2	2	0	0	Sand, Soil				
148	148	0	0	Upland Mixed Forest				
8	8	0	0	Upland Spruce/Fir				
1,810	989	11	809	Total Forested Acres	11	5	27	776
	55%	1%	45%	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	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Not a lot of BA - harvest with adjacent stands when they are ready for treatment.							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Suggested strip cuts - treatment rejected due to deer yard.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 195
Year of Entry: 2020

3	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Not overly steep but it would be difficult for equipment to operate because of the beaver flooding at the bottom. Could try and harvest off some of it when stand 6 is ready.</p>							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: The trees are short and stunted from the higher water table especially near the lake shore. There is also a feeder creek that runs in the middle of the stand feeding into the lake. It may be possible to treat the norther part of the stand when 24 or 18 are ready.</p>							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	710	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	53.6	113	81-110	Quality not as good as stand 3, cedar is shorter and more blow down is present. All species but cedar are over mature. Did not see the strip cuts but there is evidence of old logging roads through out the stand. Wet cedar stand, evidence of some old strip cuts.
2	6113 - Lowland Maple	Poletimber Well	23.7	88	81-110	Red maple is of poor quality.
3	6120 - Lowland Cedar	Poletimber Well	329.4	101	81-110	All but the cedar are over mature and starting to fall out of the stand. High water table with humcky ground covered on labrador tea. Poor quality wood in most places. BA is the low side of 80. Birch is found mainly on small ridges scattered through the stand. Old winter roads visible on the photos. The areas with lower BA were those harvested through in the past. Regen is coming in those areas.
4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	24.1	32	1-50	Regeneration is clumped by species. Scattered conifer component. White pine and cedar are trace amounts and mainly along the edges.
5	6129 - Mixed Coniferous Lowland Forest	Sapling Well	6.4	36	1-50	Nice regeneration, especially the cedar. No deer browse occurring.
6	4115 - Y.Birch, Hemlock NH	Poletimber Well	20.9	81	81-110	Stand was thinned in 2003, maple is being browsed. Look again to thin in 2028. Holes from previous thinning is mainly beech and red maple. The SW to SE edge looks like it had aspen clones final harvested. It is coming in well.
8	4119 - Mixed Northern Hardwoods	Sapling Well	10.4	32	1-50	Appears to have been cut at the same time as stand 4.
9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.3	135	81-110	Stand was picked through at some point. The BA is closer to 80. Cedar is thick in some areas. When stand 10 is ready consider this stand for treatment.
10	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	19.7	40	51-80	Appears to be high ground but there are lowland spp present. High water table or soil type. Good diversity in the stand, looks good. 2004 Thick maple regen, no longer being browsed.
11	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	2.9	20	1-50	Stand was cut before surrounding area. Wet ground but higher than surrounding stand 10. Beaver activity on the edges in the southern section from drain in that area.
12	6120 - Lowland Cedar	Sawtimber Well	62.9	75	51-80	Old winter roads and stumps show signs of past logging. Tamarack appears healthy and is found in pockets. Cedar regeneration is not being browsed even with deer using the area for bedding down. Trace amounts of white pine and hemlock along the eastern edge. Spot Finch soil compared to stand 3 with Markey Carbondale Muck.
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	82.2	91	81-110	BA is on the higher end of the range. There isn't the deer browse now but there is also more beech than maple in the understory. 2010 -Fair to poor quality. Stand was thinned in 2004, pretty heavy deer browse.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	6120 - Lowland Cedar	Poletimber Well	5.4	123	81-110	Stand is going to continue to shrink if beaver activity continues. Stand was picked through in the past. If harvesting takes place in adjacent stand this should be included.
15	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	29.0	40	1-50	Variation stand - coming back really good.
16	6124 - Lowland Spruce- Fir	Poletimber Well	34.3	65	81-110	Stand is mature. Cedar and Bam are found mainly on the edges of the stand or in scattered pockets.
17	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	41.3	72	81-110	All the species are of various ages/sizes, BA ranges from 40 to 120. Harvest now and convert to one age and size class.
18	6120 - Lowland Cedar	Poletimber Well	42.8	112	81-110	Much wetter stand than the one to the east. There is a drain in the south part of the stand where it necks down to empty into the lake. Quality is fair with some dense areas of cedar and then areas of blowdown where good layering is occurring.
19	4119 - Mixed Northern Hardwoods	Sapling Well	19.7	23	1-50	Areas still filling in. Conifer is less than 1' tall. Stand looks healthy.
20	6112 - Lowland Aspen	Sapling Well	24.9	33	1-50	Conifer and some cedar are found mainly on the edges. Regen spotty in areas, but overall is doing real good.
21	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	24.6	23	1-50	Old cut and or opening filling in. Diversity is okay and quality is poor.
22	4319 - Mixed Upland Forest	Sapling Well	25.2	23	1-50	More of the conifer and good white spruce mainly on the edges.
23	4319 - Mixed Upland Forest	Sapling Well	24.0	13	1-50	Regen is 10-25' tall with good diversity. Not enough large regeneration left to call it two-aged. Edges contain more of the conifer in the stand. A portion of this stand was a unit of One and One Mix sale. #451190501.
24	6120 - Lowland Cedar	Poletimber Well	37.9	121	111-140	
25	6120 - Lowland Cedar	Sawtimber Well	18.2	117	111-140	Too dense for an understory. There is more spruce and red maple on the edges. Some pockets of tag alder but not enough to put into the understory section. All species but cedar and over mature and starting to fall out of the stand. North part of the stand is the same as the area south of the road but trees are shorter and with a little less hardwood mixed in. Blowout is found through entire stand.
26	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	6.2	9	1-50	Regen is now 10-20 ft tall. About 5% of the trees are almost at merchantable size. Stand was Part of One and One Mix Sale. #451190501. Cut in 2009.
27	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	11.0	72	81-110	Wet stand with poor quality. Understory trees are starting to fill in the overstory because all but cedar is overmature and dying out. There are now pockets of open tag alder agea. Lowland aspen site.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	4319 - Mixed Upland Forest	Sapling Well	23.2	9	51-80	Variable stand, Stand was part of the One & One Mix Sale. #451190501. Cut in 2009. Some of the white pine has blown down.
29	6111 - Lowland Balsam Poplar	Poletimber Well	13.6	33	51-80	Bam stand - regen is spotty, if it moderately drier ground regen is doing good, wetter areas not so good.
30	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	15.9	74	51-80	Mackinac mix stand with some cedar.
31	4319 - Mixed Upland Forest	Poletimber Well	6.8	38	Unspecified	This stand was a grassy opening now growing in. Trace amount of white pine in the area. If not treated monitor for SBW.
32	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	17.5	10	1-50	Good white birch regeneration. More conifer along the edges. Wet mackinac mix stand, This stand is part of One and One Mix Sale. #451190501. Cut in 2008.
33	4319 - Mixed Upland Forest	Sapling Well	28.8	23	1-50	More of the conifer and good white spruce mainly on the edges.
35	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	27.4	98	51-80	Closer to the lake the trees become shorter with less BA and small areas of blow down.
36	6132 - Mixed Lowland Forest with Cedar	Sapling Well	4.9	45	1-50	Cedar still filling in. No deer use in this stand.
37	4139 - Aspen, Mixed Deciduous	Poletimber Poor	7.2	25	1-50	Opening filling in. Would be good to treat with surrounding stands.
39	6120 - Lowland Cedar	Poletimber Well	21.4	105	51-80	Poor quality stand. Low end of canopy closure.
40	4199 - Other Mixed Upland Deciduous	Sapling Well	26.9	12	1-50	This was cut in 2006. Some overtopping trees left. There is a lot of residual but doesn't make a two aged stand. There is blow down scattered through the stand.
41	42320 - Upland Spruce	Sawtimber Well	7.9	51	51-80	Final harvest with adjacent grass stand.
42	4193 - Birch, Aspen	Sapling Well	9.7	13	1-50	Part of a larger stand in the adjacent compartment to the north.
44	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	24.1	38	51-80	Starting to come into a pole stand. There are pockets that have an average dbh of 3". Regen doing quite well in this stand.
45	6120 - Lowland Cedar	Sawtimber Well	13.1	123	111-140	Hemlock 14" trace amounts more on the west side of the stand. Tamarack 10" trace amounts mainly on the edges. Access would have to be from the NE through the cedar stand and frozen conditions. There are small drains through the stand that go into the lake. Some deer use especially near the open water in the drains. Blow down starting to occur.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4112 - Maple, Beech, Cherry Association	Sawtimber Well	29.7	80	81-110	Conifer is mainly in clumps. Regen gaps are filled with beech, raspberry, and some maple. The maple is getting browsed. Stand was thinned in 2004. One small patch of young aspen within the stand.
47	4113 - R.Maple, Conifer	Poletimber Well	15.6	76	81-110	Most of the conifer is found along the edges. Good cover especially on the west. Regen is mainly beech with browse on the maple. There is also some raspberry present. West part of stan was thinned in 2004. East part of Stand is a unit of One and One Mix Sale #451190501.
48	4319 - Mixed Upland Forest	Poletimber Well	9.2	70	51-80	High knob in the middle and then lower ground on the edges. Areas of very open canopy. Access would have to be through the low types on frozen ground. Beaver cuttings.
49	6120 - Lowland Cedar	Poletimber Well	88.2	123	81-110	Area S and between hardwoods, poor quality wood with blow down areas and minimum deer use.
50	6113 - Lowland Maple	Sawtimber Well	5.4	88	81-110	Red maple is of poor quality.
51	6111 - Lowland Balsam Poplar	Sapling Poor	16.4	8	1-50	Still filling in. More conifer and cedar on the edges. Part of One & One Sale. #451190501. It has a couple of winter only roads built through it. Cut in 2011.
52	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.7	72	81-110	Fairly heavy pole stand, look at adjacent compartment for something to include with this. Thinned in 2011 German Chocolate 451251001
53	6120 - Lowland Cedar	Poletimber Medium	22.3	129	81-110	Stand has some open areas and blow down. Possible drains from the low could be in the stand but too much snow on the ground to know for sure. Not much deer use, mostly on the edges.
55	4193 - Birch, Aspen	Sapling Well	22.6	24	1-50	Stand was cut in 1994, regen doing great.
56	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	44.0	44	51-80	Cedar on edges and by the cedar surrounding cedar stands. 20-15 more years stand should be able to harvest.
57	6120 - Lowland Cedar	Poletimber Medium	5.6	108	81-110	Poor quality stand. Beaver activity has killed trees and reduced the canopy closure. There are a couple stalks of phragmites on the access road.
58	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.9	32	1-50	Starting to come into poles. The beaver flooding in the SE will effect the stand if the activity continues.
59	6111 - Lowland Balsam Poplar	Sapling Medium	21.8	8	51-80	Stand is still filling in. More conifer and cedar are found around the edges. Stand was part of One and One Mix sale. #451190501. Cut in 2011.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	6132 - Mixed Lowland Forest with Cedar	Sapling Well	14.9	9	1-50	Low end of canopy closure. Cedar regen in the more dense areas is 10-25' tall. The more open areas, cedar is 1-3' tall. No browse is present. Some areas are lacking regeneration and have cattail. They are filling in more slowly due to the saturated soils. One and One Mix sale. #451190501. Deer runways and other signs of use.
62	4134 - Aspen, Spruce/Fir	Poletimber Well	25.2	34	1-50	Starting to come into poles.
63	6120 - Lowland Cedar	Poletimber Well	115.2	122	81-110	Wet cedar stand. Okay quality and not a tightly closed canopy. Some areas of blow down, hummock ground with labrador tea in the understory. There are some areas of higher ground with red maple and birch. All species except cedar are at max age.
64	4319 - Mixed Upland Forest	Sapling Well	31.2	35	1-50	Good diversity. The pockets where regeneration is low there are raspberry present with beech and b fir slowly coming in. Sand Lake Fire in 1983.
65	6112 - Lowland Aspen	Sapling Well	6.7	9	1-50	On the low end of the BA closure. Conifer is mainly along the edges with some clumps scattered. Good regeneration coming in. One and One Mix Sale. #451190501.
66	4199 - Other Mixed Upland Deciduous	Sapling Medium	8.9	9	1-50	Some areas in the middle still filling in and should be a fully stocked stand in a couple more years. Stand is a unit of One and One Mix Sale #451190501. Cut in 2009.
68	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	3.5	135	Unspecified	Wet, dense cedar with a mix of birch, balsam and bam.
70	6120 - Lowland Cedar	Sapling Well	7.5	33	1-50	Broke out the cedar strips. They have excellent cedar regeneration coming in 5-15 feet tall. There is deer use around the area but they are not browsing the cedar. It appears that the cedar harvested were mainly of post size.



Stand	Cover Type	Acres	Managed Site	General Comments:
7	622 - Lowland Shrub	20.3	No	Beaver flooding area. High water table in the past killed off the timber. Water isn't as high this year or the beavers are gone.
34	622 - Lowland Shrub	13.1	No	Long drain area that holds water in the spring or from heavy rains. Trees are poor quality.
38	622 - Lowland Shrub	2.4	No	Low area around the lake. Any trees are stunted and then die and blow over.
43	622 - Lowland Shrub	2.9	No	Low area around the lake. Any trees are stunted and then die and blow over.
54	710 - Sand, Soil	1.5	Yes	Old gravel pit that extends into compartment 194 to the south.
61	622 - Lowland Shrub	18.1	No	Low area around the lake. Any trees are stunted and then die and blow over.