



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45190

Entry Year 2021

Acreage: 1,899

County Mackinac

Management Area: Battydoe Deer Yard

Revision Date: 2019-07-30

Stand Examiner: Andrew Krugh

Legal Description:

T42N R12W Sections 10, 11, 12, 14, and 15; Newton Township

Identified Planning Goals:

The compartment is within the Batty Doe Deer Yard Management Area. Plans for this Management Area are currently being written. The management in this area is geared towards maintaining the thermal cover in the lowland types. There are signs of cedar regeneration in the northern part of the compartment. Access into the compartment is fairly limited which has reduced harvest activities in many of the lowland aspen types. These areas are seeing significant mortality and harvesting will prompt some regeneration if access is practical. There are a few area of northern hardwoods in the compartment. In the lower quality hardwoods, some harvesting will create lots of stump sprouts and hopefully the deer will let them get established.

Soil and topography:

The Batty Doe Area is fairly low and level ground conditions with a slight variation to some higher ground. The lowland soils are mostly Markey and Carbondale Muck, Angellica Muck, and Leafriver Mucky Peat. The relatively higher ground is made up of Mattix Sandy Loam, Guardlake Fine Sandy Loam, Heinz Sandy Loam, Paquin- Finch Complex, Batty Doe Fine Sandy Loam.

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

The Forest Land Group owns most of the land that borders the compartment on the west side and a bit on the east side. The property to the north and east of the compartment is owned by private individuals along with some Forest Land Group property. The southern border of the compartment is adjacent to more state land.

Unique Natural Features:

Eagle nest to the west of the compartment on Forest Land Group property

Archeological, Historical, and Cultural Features:

There are remnants of foundation for old homestead area.

Special Management Designations or Considerations:

The compartment lies within a deer wintering area. Stands will require a winter cutting restriction.

Watershed and Fisheries Considerations:

No fisheries concerns.

Wildlife Habitat Considerations:

This compartment is part of 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 part of deer wintering complex. The dominant cover types include lowland conifer, especially cedar and cedar mixes. Other types include a narrow band of aspen along the Buckeye Road, a couple of small hardwood stands on opposite ends of the compartment, and some scattered lowland deciduous stands.

Wildlife objectives include maintaining the closed canopy conifer cover, diversity within hardwoods, and young early successional forest habitat where present. Treatments that occurred in the northeast part of the compartment over the last 10 years were done to promote young growth in a hardwood stand and also resulted in young aspen in a final harvest stand that benefits deer, ruffed grouse, American woodcock, snowshoe hare, and other species. Any cuts during the next 10 years will take place in the winter such that remaining tops are available as late fall or winter browse. A component of mature trees will be left during final harvests to provide budding and roosting or perching trees, and to increase diversity. Retention of hard and soft mast bearing species, snags, den trees, and coarse woody debris is important. Hemlock and cedar will be retained except where access to a stand is needed. In that instance, the shortest route will be used to minimize the impact to lowland conifer stands. Lowland conifer cover including cedar stands will be left to provide cover for deer and other species.

Mineral Resource and Development Concerns and/or Restrictions

Active non-metallic mineral operations are located in the vicinity of the compartment. Some produce sand & gravel as well as bedrock limestone/dolostone. Carmeuse's Port Inland north quarry is located just to the west of Milakokia Lake, and another quarry is located to the north. Bethlehem Steel conducted extensive exploration for limestone in the area in the late 1960s including one well within the compartment. Despite the high potential for limestone/dolostone, the wetlands in the area could add significant cost to any potential surface mining operations. There is no known metallic mineral potential in this area, and there is no current economic oil and gas production in the UP.

Vehicle Access:

Access is limited in this compartment. The Buckeye road is the main truck line running north to south through the compartment. There are just a few wet woods roads that come off the Buckeye Road providing some more access to the compartment.

Survey Needs:

If access is obtained the isolated 40 acres parcels in section 15 will need some corners. Section 11 will also need quarter corners placed if private access is obtained.

Recreational Facilities and Opportunities:

There are no facilities in the compartment. But there are lots of opportunities for deer and small game hunting, berry picking, and riding ORVs.

Fire Protection:

Fire protection is not a major concern due to the low ground conditions but access could be an issue if a fire were to start.

Additional Compartment Information:

The following reports from the Inventory are attached:

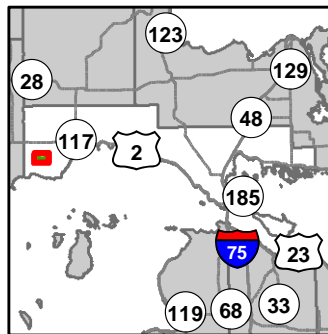
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

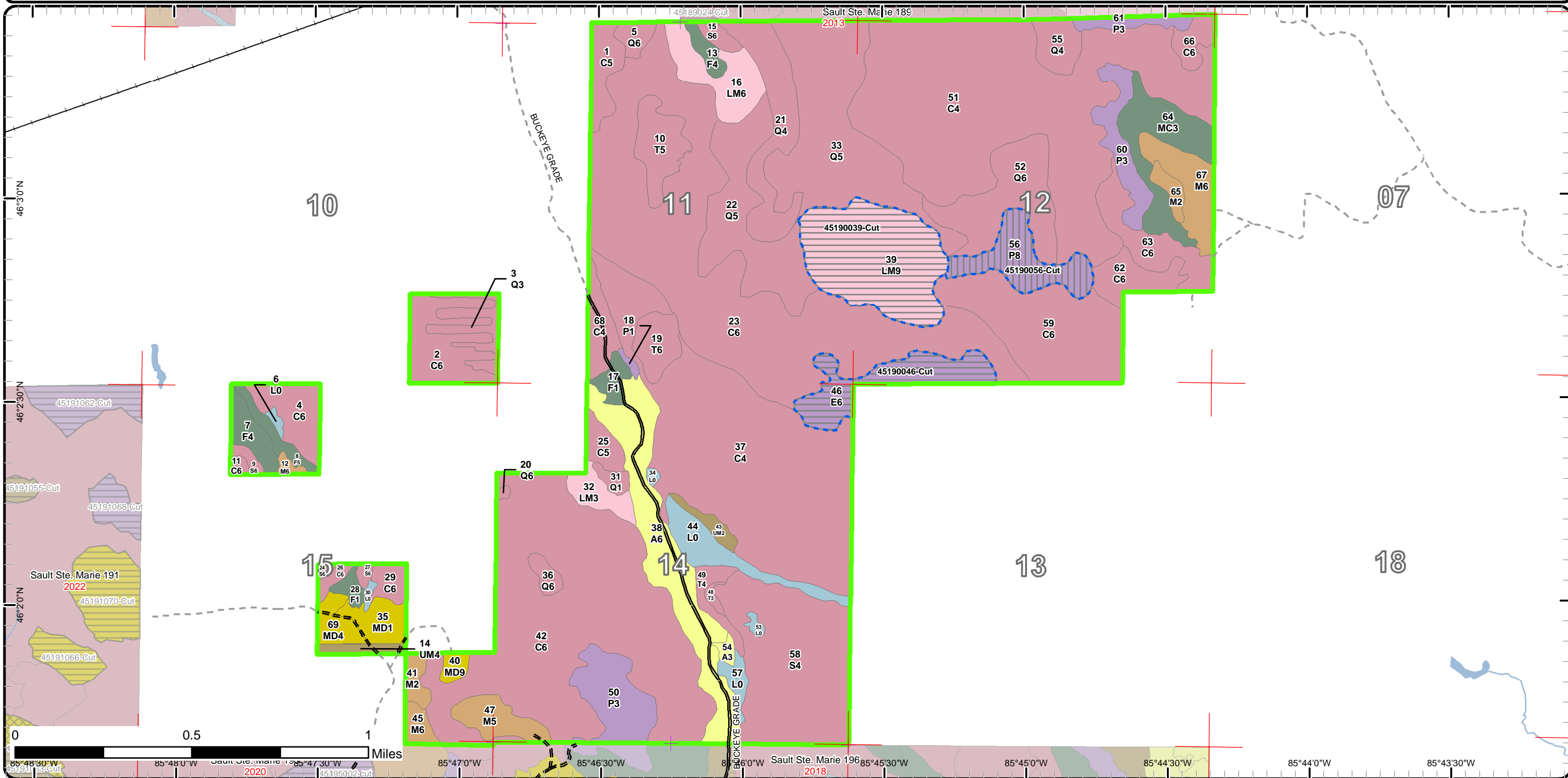
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 190
 T42N, R12W, Sec: 10-12, 14, 15
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Battydoe Deer Yard
 YOE: 2021
 Acres: 1,899 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 8/12/2019
 Map Phase: Web Post

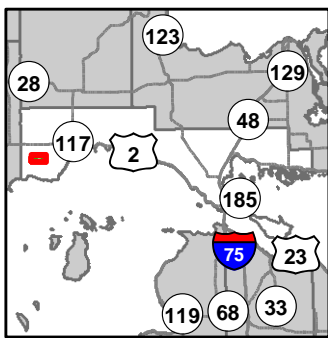


- Miris Corners
 - + Remonumented Section Corners
 - Counties
 - DNR - Secondary Forest Road
 - DNR - Forest Access Route
 - Private - Dirt / Gravel Road
 - Active Railroads
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers All
 - Compartment Boundary
 - Treatments with Site Conditions
 - Clearcut (w/Reserves)
 - Shelter Wood (w/Reserves)
- 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
 - Lakes

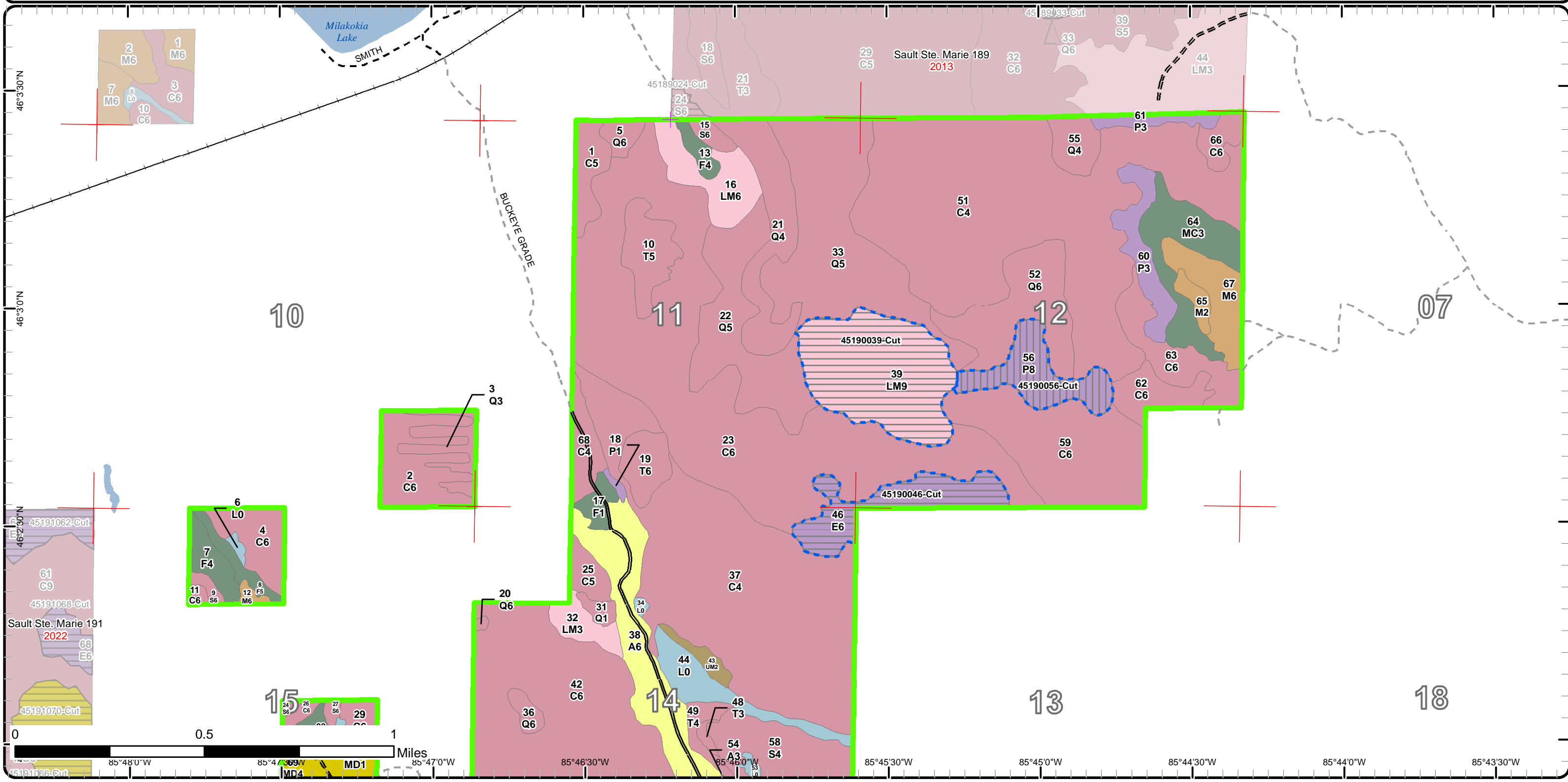


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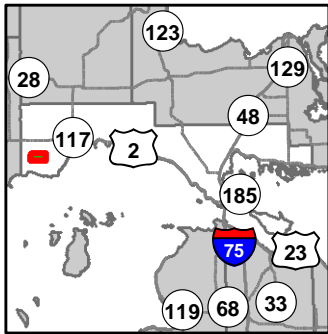


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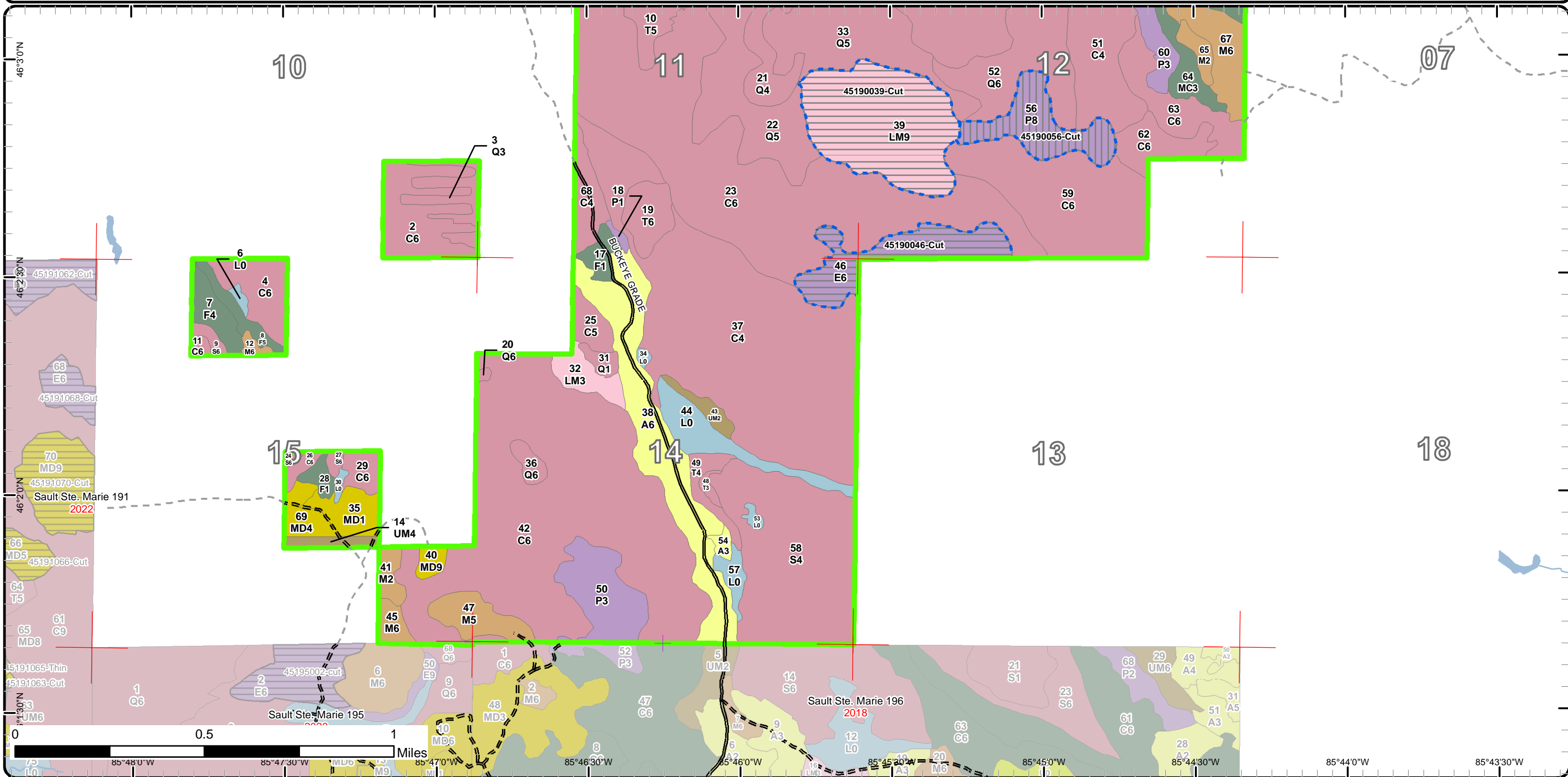


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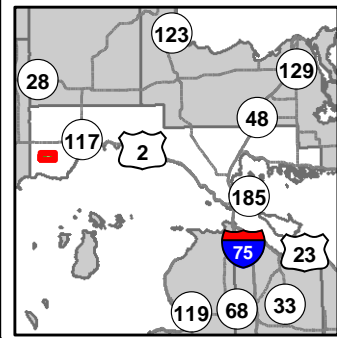


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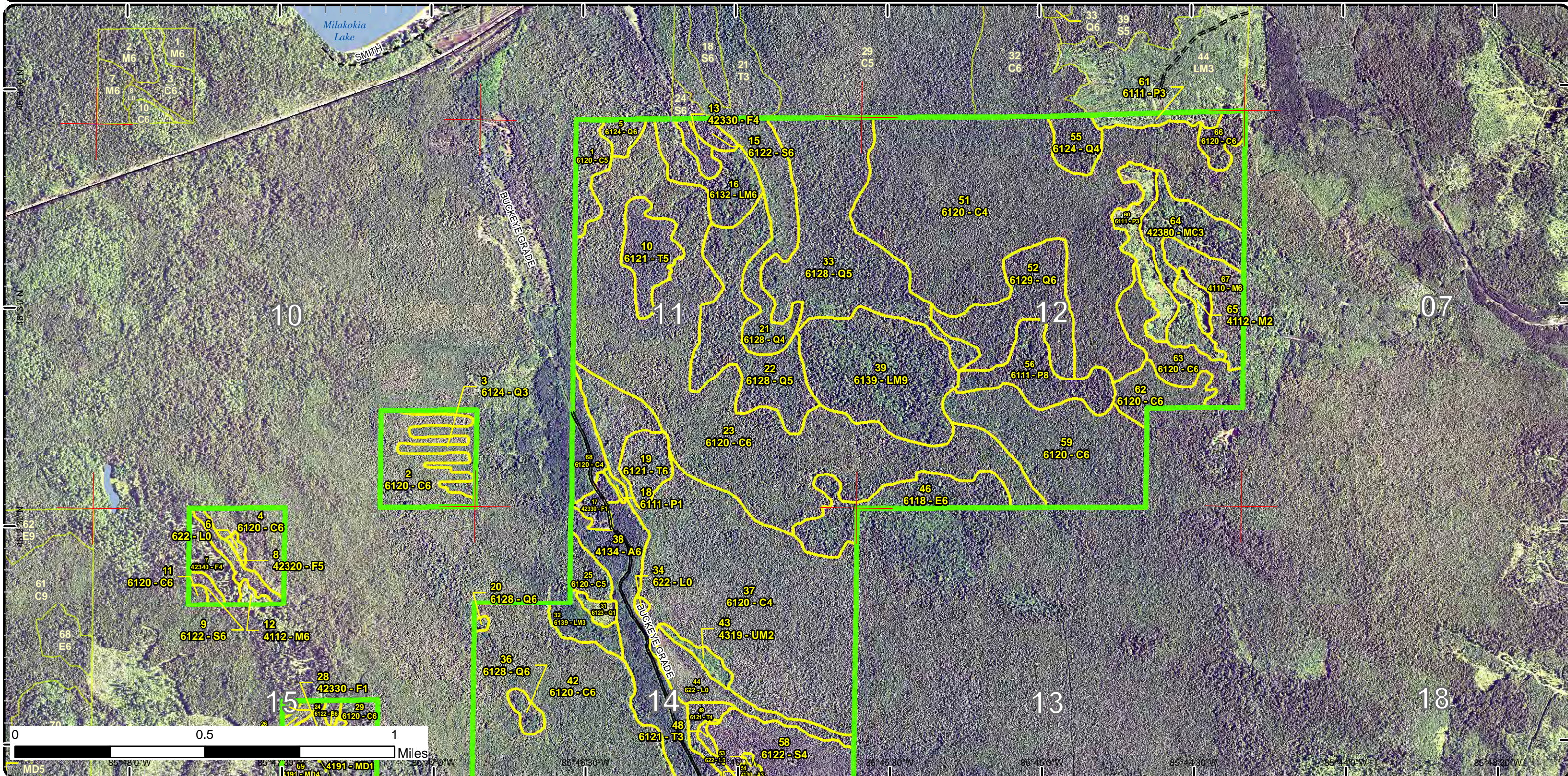


Stand Boundary Map

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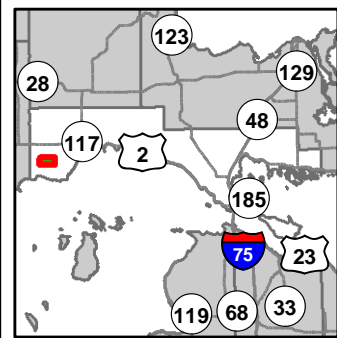


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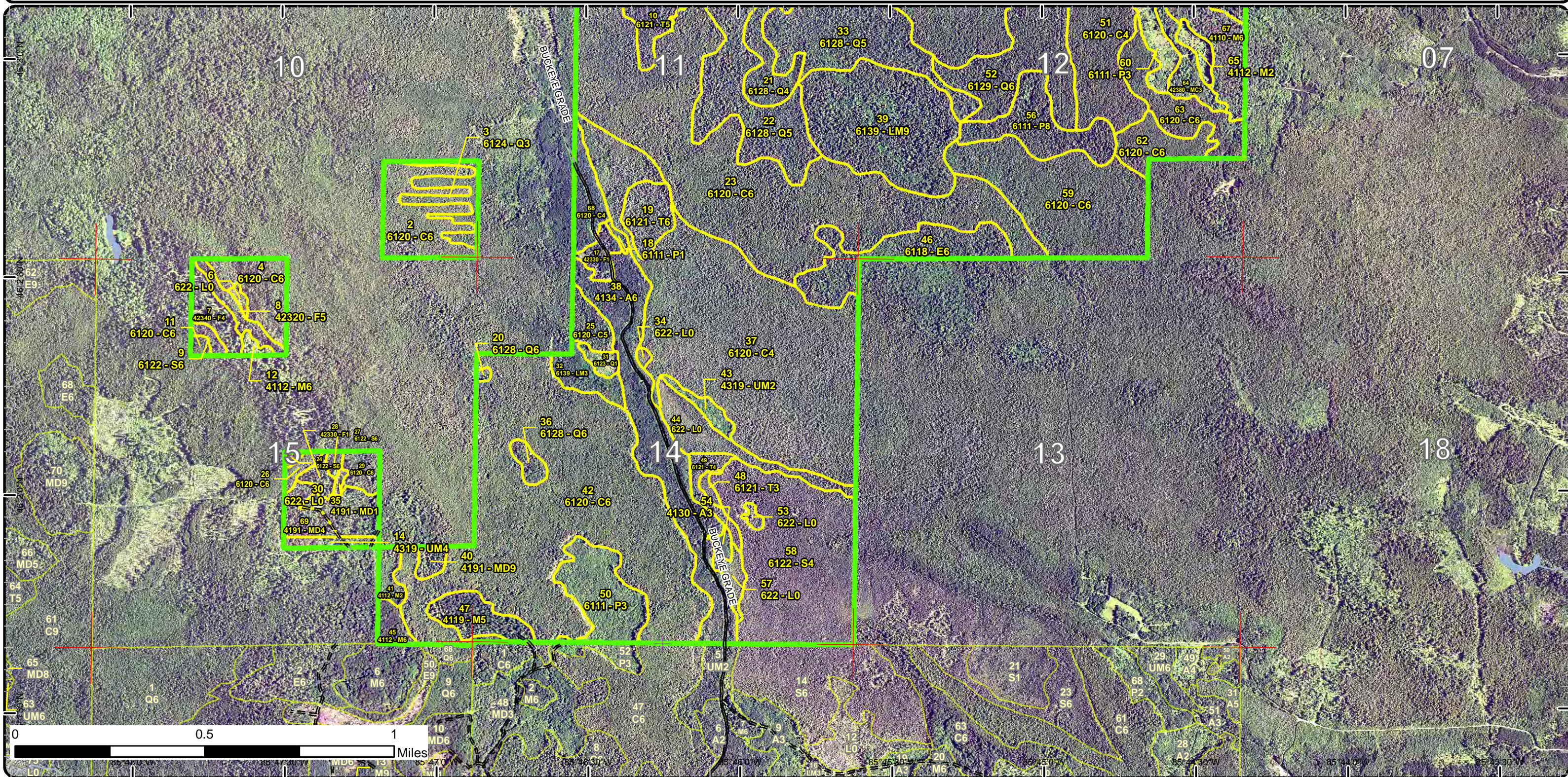


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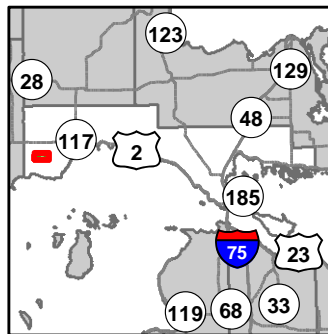


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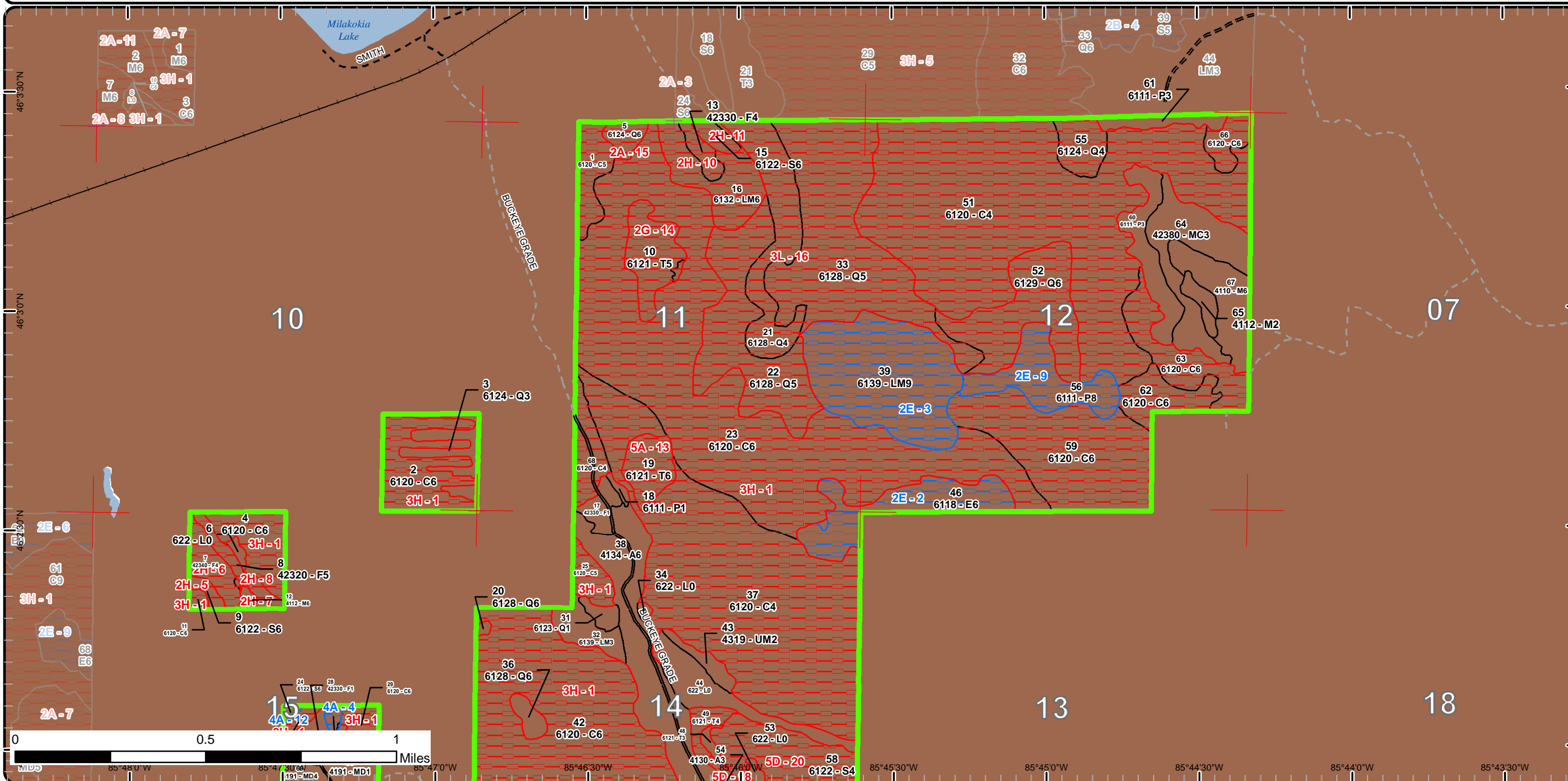


Special Conservation Areas & Site Conditions Map

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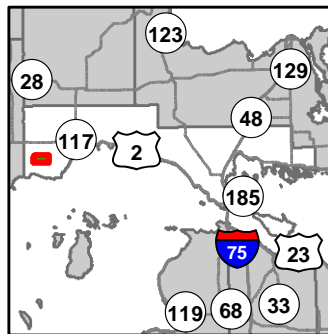


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2E: Road needed
- 4A: No Markets Available for these Forest Products
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5D: Unproductive Forest Land
- Stand Boundaries
- Deer Winter Range

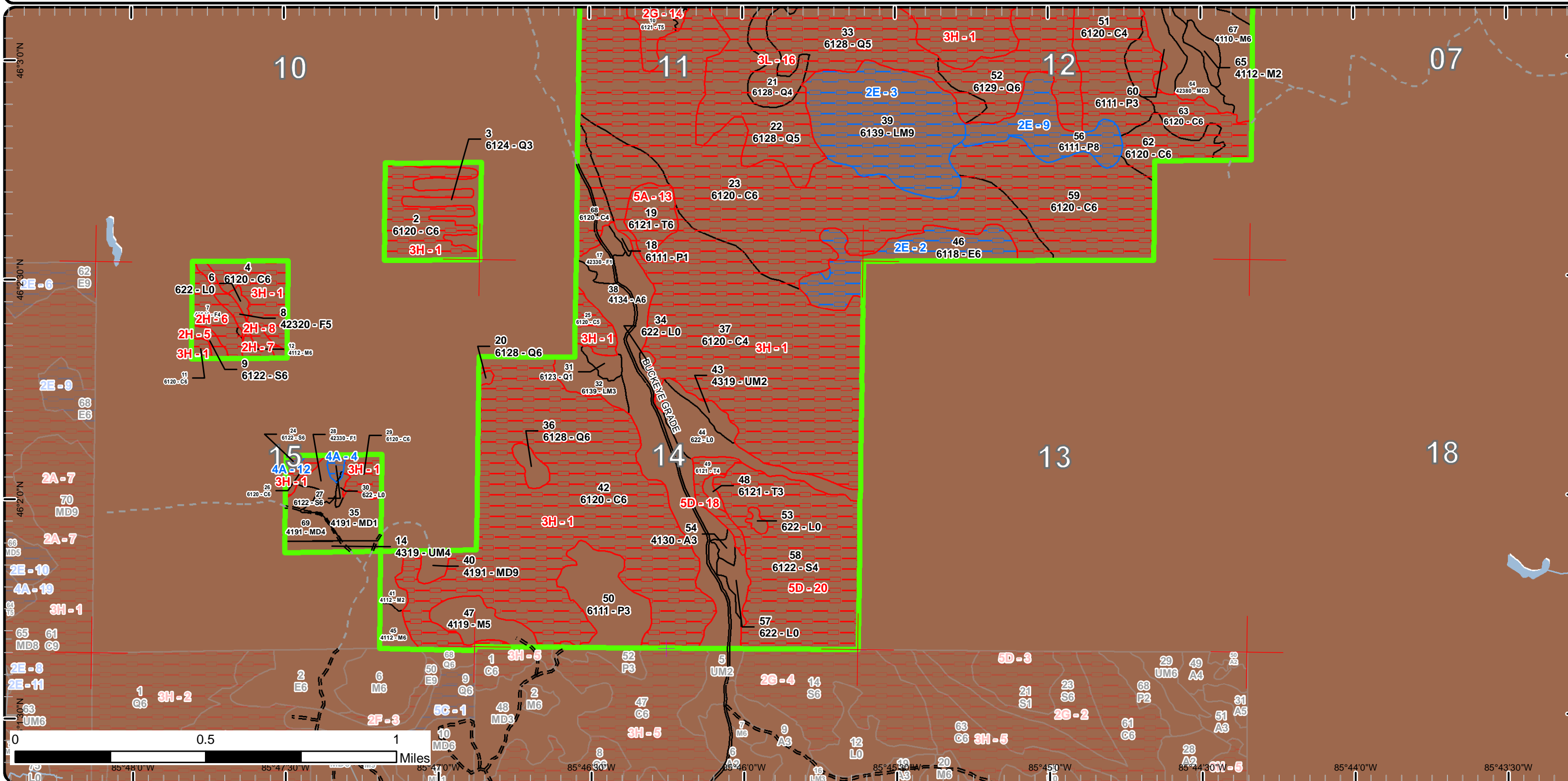


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	2	0	61	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Cedar	0	0	0	0	0	0	15	0	0	194	6	8	241	300	0	262	29	0	1054
Lowland Aspen/Balsam Poplar	0	0	26	27	0	0	0	0	0	0	0	27	0	0	0	0	0	0	79
Lowland Conifers	0	0	3	0	0	0	12	0	0	5	192	0	0	11	36	0	0	0	259
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	31
Lowland Mixed Forest	0	0	0	10	0	0	0	0	0	0	23	69	0	0	0	0	0	0	102
Lowland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	2	1	6	0	0	0	88	0	0	97
Mixed Upland Deciduous	0	0	11	0	0	0	0	0	0	4	0	0	0	0	0	0	0	8	23
Northern Hardwood	0	0	10	0	0	0	0	0	2	5	0	20	0	0	0	0	0	14	51
Tamarack	0	0	0	0	0	2	0	0	0	0	0	0	25	0	0	0	13	0	40
Upland Conifers	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Upland Mixed Forest	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10
Upland Spruce/Fir	0	0	4	0	6	0	15	0	0	6	0	0	0	0	0	0	0	0	31
Total	28	0	61	37	98	2	42	0	2	216	222	130	266	342	36	350	42	27	1899



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 190
Total Compartment Acres: 1,899

Commercial Harvest -
Harvests with Site Condition - 127
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
Lowland Aspen/Balsam Poplar	0	0	0	0	27	0	0	0	0	27
Lowland Deciduous	31	0	0	0	0	0	0	0	0	31
Lowland Mixed Forest	69	0	0	0	0	0	0	0	0	69
Total	100	0	0	0	27	0	0	0	0	127

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	127	0	0	0	0	0	0	0	0	127
Next Step	0	0	0	0	0	0	127	0	0	127
Total	127	0	0	0	0	0	127	0	0	254



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
39	45190039-Cut	69.2	6139 - Mixed Lowland Forest	Sawtimber Well	109	Unspecified	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition: Road Needed								
<u>Prescription Specs:</u> Cut all species two inches and greater, except cut cedar, pine, spruce, and fir, four inches and greater and don't cut hemlock. Aim for 7-10% retention.											
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Acceptable Regen:</u> Moderate to fully stocked aspen, maple, spruce, pine and fir.											
<u>Other Comment:</u> Winter harvest only due to access and soil conditions within stand and for wintering deer. Ok to cut some Cedar in winter roads to get these stands 39, 46 & 56											
<u>Proposed Start Date:</u> 10/1 /2020											
46	45190046-Cut	31.2	6118 - Lowland Deciduous with Cedar	Poletimber Well	124	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition: Road Needed								
<u>Prescription Specs:</u> Cut all species two inches and greater, except cut cedar, pine, spruce, and fir, four inches and greater and don't cut hemlock. Aim for 7-10% retention.											
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Acceptable Regen:</u> Moderate to fully stocked BAM, aspen, maple, fir, pine, and cedar.											
<u>Other Comment:</u> Winter harvest only due to access and soil conditions within stand and for wintering deer. Ok to cut some Cedar in winter roads to get these stands 39, 46 & 56											
<u>Proposed Start Date:</u> 10/1 /2020											
56	45190056-Cut	26.8	6111 - Lowland Balsam Poplar	Sawtimber Medium	109	Unspecified	Harvest	Shelterwood with Retention	611 - Lowland Deciduous Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition: Road Needed								
<u>Prescription Specs:</u> Cut all species two inches and greater except cedar and hemlock. Aim for 7-10% retention. only cut a small amount of cedar for operability. Ok to cut some Cedar in winter roads to get these stands 39, 46 & 56											
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Acceptable Regen:</u> Moderate to fully stocked aspen, maple, fir, spruce, pine, and cedar.											
<u>Other Comment:</u> Winter harvest only due to access and soil conditions within stand, and for wintering deer.											
<u>Proposed Start Date:</u> 10/1 /2020											
Total Treatment Acreage Proposed:		127.2									

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 190

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions									
Acres	Available	With Condition	Not Available	2E	4A	2A	2G	2H	3H	3L	5A	5D	
63	63	0	0	Aspen									
1054	0	0	1054	Cedar									0
79	53	27	0	Lowland Aspen/Balsam Poplar									27
259	20	0	239	Lowland Conifers									0
31	0	31	0	Lowland Deciduous									31
102	10	69	23	Lowland Mixed Forest									69
28	28	0	0	Lowland Shrub									0
97	0	3	94	Lowland Spruce/Fir									3
23	23	0	0	Mixed Upland Deciduous									0
51	49	0	2	Northern Hardwood									2
40	2	0	38	Tamarack									18
31	31	0	0	Upland Conifers									0
9	9	0	0	Upland Mixed Forest									0
31	10	0	21	Upland Spruce/Fir									0
1,899	299	130	1,471	Total Forested Acres									127
	16%	7%	77%	Relative Percent									

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	1,065	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	2E: Road needed	31	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 190

Year of Entry: 2021

3	Available	2E: Road needed	69	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	4A: No Markets Available for these Forest Products	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Andrew Krugh : Examiner

Compartment: 190
Year of Entry: 2021

9	Available	2E: Road needed	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	4A: No Markets Available for these Forest Products	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5A: Not able to obtain desirable regeneration	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

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15	Unavailable	2A: Adjacent landowner denied access	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3L: Other wildlife concerns	222	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5D: Unproductive Forest Land	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5D: Unproductive Forest Land	88	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	6120 - Lowland Cedar	Poletimber Medium	12.6	119	141-170	N/A	Mixed stand stocking is variable not much deer activity.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch		15	Log/Pole	10		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Poplar		15	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce		15	Pole	9					
Northern White Cedar		55	Pole	9	119				
2	6120 - Lowland Cedar	Poletimber Well	29.0	150	141-170	N/A	Nice cedar. lots of 3 stick cedar. Not much deer sign.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		15	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar		80	Pole	9	150	Northern White Cedar	Low	5 - 10 feet	Sapling
3	6124 - Lowland Spruce-Fir	Sapling Well	11.9	59	Unspecified	N/A	Lots of cedar regen about 20' tall. No browsing noticed. Lots of spruce and fir regen also.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Sapling	4					
Balsam Fir		30	Sapling	4					
Black Spruce		20	Sapling	4					
Northern White Cedar		40	Sapling	4	59				
4	6120 - Lowland Cedar	Poletimber Well	17.6	128	141-170	N/A	poor quality st., stocking is variable, quite a bit of windthrow. a few tag alder spots. Some cedar regen present. Not much deer sign.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Balsam Poplar		10	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar		80	Pole	8	128	Tag Alder	Medium	5 - 10 feet	Tall Shrub
5	6124 - Lowland Spruce-Fir	Poletimber Well	5.2	89	141-170	N/A	New stand added.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Balsam Poplar		20	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir		30	Pole	6	89	Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce		20	Pole	5					
Northern White Cedar		30	Pole	5	89				
6	622 - Lowland Shrub	Nonstocked	1.3		Unspecified	No	New stand added.		
7	42340 - Upland Spruce/Fir	Poletimber Poor	9.8	56	81-110	N/A	Could cut if TFG puts Rd in. Stand is opening filling in		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Balsam Fir		40	Pole	8	56	Balsam Fir	Low	< 5 feet	Sapling
White Spruce		30	Pole	7		White Spruce	Low	< 5 feet	Sapling
White Pine		30	Pole	7		White Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
8	42320 - Upland Spruce	Poletimber Medium	6.4	80	141-170	N/A	stocking is Variable lots of regen. Mature spruce is 5-6sticks		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Balsam Fir		40	Pole	9		Balsam Fir	Medium	10 - 20 feet	Sapling
White Spruce		60	Pole	9	80	White Spruce	Medium	10 - 20 feet	Sapling
9	6122 - Black Spruce	Poletimber Well	2.5	107	111-140	N/A	New stand added. nice spruce lab tea ground cover		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		90	Pole	9	107	Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar		10	Pole	9					
10	6121 - Tamarack	Poletimber Medium	18.4	110	171-200	N/A	Wet understory, lot of tag alder. A little tamarack regen present.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		10	Pole	8		Tamarack	Low	5 - 10 feet	Sapling
Northern White Cedar		20	Pole	7		Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack		70	Pole	8	110				
11	6120 - Lowland Cedar	Poletimber Well	1.6	119	141-170	N/A	nice cedar, some deer activity. leave for cover. 4 stick cedar.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Northern White Cedar		90	Pole	9	119	Balsam Fir	Low	5 - 10 feet	Sapling
12	4112 - Maple, Beech, Cherry Association	Poletimber Well	1.9	79	111-140	N/A	New stand added. Thick balsam fir understory. Some decent stems but mostly poor quality red maple.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		90	Pole	9	79	Balsam Fir	Full	10 - 20 feet	Sapling
Balsam Fir		10	Pole	9					
13	42330 - Upland Fir	Poletimber Poor	4.9	51	141-170	N/A	New stand added. G0 filling in becoming thick with balsam regen. Stand has scattered pole timber with a thick F3 understory.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Balsam Fir		85	Pole	6	51	Balsam Fir	Medium	5 - 10 feet	Sapling
White Spruce		10	Pole	6					
14	4319 - Mixed Upland Forest	Poletimber Poor	4.6	84	81-110	N/A			
15	6122 - Black Spruce	Poletimber Well	3.8	108	111-140	N/A	nice spruce 5 to 6 stick tall		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Balsam Fir		10	Pole	9		Balsam Fir	Low	10 - 20 feet	Sapling
Black Spruce		80	Pole	9	108				
Tamarack		10	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	22.7	91	111-140	N/A	nice stand some pockets of tag alder . Cedar is 3 to 4 sticks tall
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	25	Pole	9	
Balsam Poplar	30	Pole	9	91
Balsam Fir	10	Pole	9	
Northern White Cedar	30	Pole	9	91

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling

17	42330 - Upland Fir	Sapling Poor	6.0	34	Unspecified	N/A	Stand is a grassy opening filling in.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	60	Sapling	2	34
White Spruce	40	Sapling	2	

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling

18	6111 - Lowland Balsam Poplar	Sapling Poor	1.2	15	Immature	N/A	Clearcut unit of 'Circling Eagle' (103-03-01) cut in 2004. BAM regen is spotty.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	80	Sapling	3	15
Balsam Fir	20	Sapling	3	

19	6121 - Tamarack	Poletimber Well	12.6	151	141-170	N/A	Stand is real wet. Tag alder understory. 1-3 stick tamarack.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	10	Pole	8	
Tamarack	90	Pole	9	151

Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub

20	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	0.8	97	141-170	N/A	Nice mixed stand, quite a bit of cedar. Would be a lot of work for not much wood. Could maybe cut in the future if TFG cuts on their side.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	20	Pole	9	
Balsam Fir	10	Pole	8	
Black Spruce	30	Pole	9	
Northern White Cedar	40	Pole	9	97

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling

21	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	35.5	139	51-80	N/A	Timber is sparse. thick tag alder understory.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	20	Pole/Sapling	4	
Balsam Poplar	10	Pole/Sapling	4	
Black Spruce	30	Pole/Sapling	4	
Northern White Cedar	40	Pole/Sapling	4	139

Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
22	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	53.8	93	81-110	N/A	real mixed stand. Ground is wet! Some cedar regen present.																																					
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23	6120 - Lowland Cedar	Poletimber Well	226.3	114	171-200	N/A	Beautiful cedar 4 to 5 stick plus. Not much deer sign would be nice to Cut apart of stand to try and regenerate a part of it with some strip cuts. Some patches of lower stocking with tag alder.																																					
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33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	91.1	93	Unspecified	N/A	Poor quality stand, real wet. mix of species.																																														
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34	622 - Lowland Shrub	Nonstocked	0.9		Unspecified	No	V0																																														
35	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	11.2	13	1-50	N/A	Stand just cut it in 06. lots of Maple sapling browsed heavily. sw corner has lots of Hem and cedar. Stand was shelterwooded. Scattered rm poles left as well as all hemlock and cedar.																																														
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36	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.2	97	Unspecified	N/A	Hard to get to. Nice mix conifer stand. Pretty much inaccessible unless wildlife approved of removing cedar for road construction.																																														
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37	6120 - Lowland Cedar	Poletimber Poor	181.8	89	Unspecified	N/A	timber stocking is variable, poor quality st. Scattered cedar over tag alder. Standing water.																																																												
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38	4134 - Aspen, Spruce/Fir	Poletimber Well	61.4	35	201+	N/A	aspen and spruce/fir mix. Regen 20' to 30' tall. Some Scattered cedar pole on transition ground. Lots of deer activity																																																												
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39	6139 - Mixed Lowland Forest	Sawtimber Well	69.2	109	Unspecified	N/A	Stand is inaccessible unless accessed through stand 56 and through south unit of frozen tundra (104-03-01). The larger deciduous is dying of old age.																																																												
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40	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.6	81	51-80	N/A	St. was shelterwooded as a unit of Circling Eagle (103-03-01) in 04 nice rm regen lots of browse. Red maple, YB, cedar and hemlock poles are left.																																																												
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41	4112 - Maple, Beech, Cherry Association	Sapling Medium	5.4	15	Immature	N/A	Some mature cedar left at north end of stand. Cut in 04 unit of Circling eagle (103-03-01).																																																												
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42	6120 - Lowland Cedar	Poletimber Well	212.0	123	Unspecified	N/A	nice cedar. lots of deer use. Leave for cover. Could do some strip cuts in the future.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	4319 - Mixed Upland Forest	Sapling Medium	4.7	16	Immature	N/A	stand was a seed tree unit of circling eagle (103-03-01) has sca-tered white birch poles left for seed.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		45	Sapling	4	16				
Paper Birch		10	Log/Pole	10	88				
Balsam Fir		35	Sapling	4					
White Spruce		10	Sapling	4					
44	622 - Lowland Shrub	Nonstocked	18.3		Unspecified	No			
45	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.3	89	81-110	N/A	Stand should be managed with st 6 of c.195. Thinned in 03 'Batty Buckeye Hwds' 133-00-01. thin again when stand 6 (stand to the south) in compartment 165 is thinned again.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple		15	Pole	9		Red Maple	Low	5 - 10 feet	Sapling
Red Maple		70	Pole/Log	10	89	Balsam Fir	Medium	10 - 20 feet	Sapling
46	6118 - Lowland Deciduous with Cedar	Poletimber Well	31.2	124	111-140	N/A	mix of BAM, Paperbirch, sp, fir and cedar. If this stand is not cut this time let it convert to a lowland conifer stand and never go here again because we will not be able to cut it with current guidance.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Poplar		50	Log/Pole	10	124	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir		20	Log/Pole	10					
Northern White Cedar		20	Pole	9					
47	4119 - Mixed Northern Hardwoods	Poletimber Medium	13.9	84	1-50	N/A	St shelterwood unit of circling eagle 103-03-01. Cut in 04. Some nice rm negen with rm, yb, hem, and cedar pole in the canopy.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple		65	Pole/Log	10	84	Red Maple	High	5 - 10 feet	Sapling
Yellow Birch		10	Log	12		Balsam Fir	Medium	5 - 10 feet	Sapling
Paper Birch		15	Pole	8					
48	6121 - Tamarack	Sapling Well	1.6	44	201+	N/A	Thick Tamarack regen about 20' to 30' tall.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black Spruce		10	Sapling	4					
Tamarack		90	Sapling	4	44				
49	6121 - Tamarack	Poletimber Poor	7.1	111	171-200	N/A	stocking is Variable. 1 to 3 stick tam. small diameter. Not worth harvesting		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Tamarack		90	Pole	7	111	Black Spruce	Medium	5 - 10 feet	Sapling
						Tag Alder	Medium	5 - 10 feet	Tall Shrub



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50	6111 - Lowland Balsam Poplar	Sapling Well	27.0	20	Unspecified	N/A	Thick BAM regen. 10' to 20' tall. 'Lost Swede Cedar/Birch TSale.' Cut in 99.																																									
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51	6120 - Lowland Cedar	Poletimber Poor	230.5	146	Unspecified	N/A	stocking is variable. Cedar regen is present wet ground, a fair amount of tag alder.																																									
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52	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	42.0	93	141-170	N/A																																										
53	622 - Lowland Shrub	Nonstocked	1.4		Unspecified	No																																										
54	4130 - Aspen	Sapling Well	2.0	15	Immature	N/A	Thick regen about 10' tall. Cut in 04 with 'Circling Eagle Mix' (103-03-01).																																									
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55	6124 - Lowland Spruce-Fir	Poletimber Poor	11.2	129	171-200	N/A	scattered pole timber mostly tag alder understory not much deer sign.																																									
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56	6111 - Lowland Balsam Poplar	Sawtimber Medium	26.8	109	Unspecified	N/A	Island of wet aspen and birch with cedar. Quite a bit of mortality and needs to be harvested if can get to it. This is a two story stand and has a heavy understory of cedar. There is great regeneration of cedar within the stand and surrounding areas. If we do not cut this stand this entry no one should ever go here again, because it will convert to a cedar stand and will never be harvested because of current guidance.																																									
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57	622 - Lowland Shrub	Nonstocked	5.0		Unspecified	No																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	6122 - Black Spruce	Poletimber Poor	87.9	140	201+	N/A	Stand has scattered pole sized timber with an S3 understory.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Black Spruce		90	Pole/Sapling	4	140	Black Spruce	
Tamarack		10	Pole/Sapling	4		Medium	
						5 - 10 feet	
						Sapling	
59	6120 - Lowland Cedar	Poletimber Well	67.9	120	201+	N/A	Thick cedar poles with pockets of cedar regen. Not much deer sign.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Paper Birch		10	Pole	8		Balsam Fir	
Northern White Cedar		90	Pole	8	120	Northern White Cedar	
						Low	
						5 - 10 feet	
						Sapling	
60	6111 - Lowland Balsam Poplar	Sapling Well	17.7	12	Immature	N/A	Cut in 06 w/ 'frozen tundra' regen is 4- 5' tall and is filling in.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Sapling	2			
Balsam Poplar		70	Sapling	2	12		
Balsam Fir		10	Sapling	2			
61	6111 - Lowland Balsam Poplar	Sapling Well	6.8	13	Immature	N/A	st. cut w/ Frozen tundra in O6 regen is doing ok, wet ground!
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Sapling	1			
Balsam Poplar		65	Sapling	1	13		
Balsam Fir		20	Sapling	1			
62	6120 - Lowland Cedar	Poletimber Well	14.7	59	201+	N/A	cedar is about 20' tall and very thick.
Canopy Species		% Cover	Size Class	DBH	Age		
Northern White Cedar		100	Pole	8	59		
63	6120 - Lowland Cedar	Poletimber Well	23.3	144	171-200	N/A	Decent stand of cedar. Quality and stocking taper off to the north and west.
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	
Paper Birch		10	Pole	8		Balsam Fir	
Northern White Cedar		80	Pole	8	144	Low	
						5 - 10 feet	
						Sapling	
64	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Well	30.8	31	Immature	N/A	M3/F3 with scattered cedar and red maple poles left.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		40	Sapling	4	31		
Balsam Fir		40	Sapling	4	31		
White Spruce		10	Sapling	4			
Northern White Cedar		10	Pole	7			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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65 4112 - Maple, Beech, Cherry Association Sapling Medium 4.6 12 Immature N/A St. Cut in 06 w/ frozen tundra, regen is spotty, lots of browse

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	90	Sapling	3	12
Balsam Fir	10	Sapling	3	

66 6120 - Lowland Cedar Poletimber Well 7.8 141 Unspecified N/A nice cedar lots of log sized trees. Nice mix of species

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole/Log	8		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Poplar	10	Pole/Log	10					
Northern White Cedar	70	Pole/Log	10	141				

67 4110 - Sugar Maple Association Poletimber Well 20.1 105 51-80 N/A Nice hardwood. mostly hard maple. Thinned in 2016.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple	90	Pole/Log	10	105	Sugar Maple	Low	5 - 10 feet	Sapling
Beech	10	Pole/Log	10					

68 6120 - Lowland Cedar Poletimber Poor 12.0 89 Unspecified N/A timber stocking is variable, poor quality st. Scattered cedar over tag alder. Standing water.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole/Sapling	4		Paper Birch	Low	5 - 10 feet	Sapling
Northern White Cedar	80	Pole	6	89	Tag Alder	Medium	10 - 20 feet	Tall Shrub

69 4191 - Mixed Upland Deciduous with Conifer Poletimber Poor 8.4 84 1-50 N/A Stand just cut it in 06. lots of Maple sapling browswed heavily. sw corner has lots of Hem and cedar. Stand was shelterwooded. Scattered rm poles left as well as all hemlock and cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole	10	84	Red Maple	Medium	< 5 feet	Sapling
Paper Birch	10	Pole/Log	11		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	15	Pole	8					