



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45185

Entry Year 2023

Acreage: 1,402

County Mackinac

Management Area: Milakokia Lake

Stand Examiner: Andrew Krugh

Legal Description:

T44N, R12W Sec 31 N1/2NW, W1/2NE, SENE, N1/2SE, SWSE, SW, Sec 32 except SESE, T43N, R12W Sec 5 W1/2NW NENW, Sec 6 E1/2NW, NE

Identified Planning Goals:

This compartment is located approximately 5 miles southwest of Curtis. Aspen/spruce/fir mix (both upland and lowland) is the primary component of the compartment, with several hardwood stands scattered throughout. Good age class diversity exists within the aspen component. Aspen cutting has taken place every decade since the mid-1960's. Continued cutting of the mature to over-mature stands is recommended to assure adequate regeneration, and continued age class diversity. The hardwood stands are in need of management to promote health and growth.

Soil and topography:

Level lowlands to rolling uplands. Uplands consist primarily of Greylock-Adams complex, Adams sandy loam and Graveraet fine sandy loam. Minor associates include Paquin sand, Springlake loamy coarse sand, Guardlake fine sandy loam, Solona loam, and Kalkaska sand. Lowlands are primarily Markey and Carbondale mucks, but includes some Angelica muck.

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

Majority of this compartment is enclosed. There is one 40 acre parcel within the compartment that is surrounded by state. Majority of the land surrounding the is private that does some sort of forestry.

Unique Natural Features:

Meade Creek runs through the compartment, with small seeps and tributaries entering it. Apple trees scattered mainly along the old grades. Possible eagle and osprey nests located to the east of the compartment. A Heron Rookery is located to the south of the compartment.

Archeological, Historical, and Cultural Features:

History of old logging railroads evident, with Bryan Grade the predominant grade in the area. Old logging camp remnants present.

Special Management Designations or Considerations:

Harvesting operations within some stands may have to take place in the winter. Access to some of these stands is via the snowmobile trail. The trail will be properly signed and a snow base left. BMP guidelines will be adhered to along Meade Creek.

Watershed and Fisheries Considerations:

This compartment contains Mead Creek. Mead Creek is a non-designated cold stream less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended to protect riparian areas of the Mead Creek in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is part of the Milakokia Lake Management Area where featured wildlife species include American woodcock, blackburnian warbler, red-shouldered hawk, and white-tailed deer. It contains a mix of aspen, northern hardwoods, and lowland conifers as well as marsh and other wetland types. Mead Creek angles through the compartment from northwest to southeast. Wildlife objectives include maintaining early successional habitat beneficial to woodcock and grouse, enhancing diversity in northern hardwoods including between stands to benefit hawks and bear, maintaining lowland conifer cover for wildlife including bear, and protecting riparian and lowland areas.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. Multiple active sand/gravel pits occur in the general vicinity. Carmeuse's Port Inland dolomite

quarry is five miles to the south. Burnt Bluff Group dolomite underlies glacial drift here but appears to be too deep to have economic value. There may be potential for sand & gravel within the compartment, but wetlands and a shallow water table limit potential for surface mining. The best potential would be in the southwest of the compartment. The State does not own all the mineral rights within the compartment and may or may not own the rights to the non-metallic minerals depending on deed language. 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.

Vehicle Access:

The only legal access to this compartment is from the north off of Old Bryan Grade Rd.

Survey Needs:

Recreational Facilities and Opportunities:

Snowmobile trail 43 runs through the compartment linking Curtis to Germfask. There are numerous hunting fishing and foraging opportunities within the compartment.

Fire Protection:

Access is limited to three possible entry points into this compartment. Two of these access points are through private and have gates on them. The main access to this compartment is through the north off of Old Bryan Grade Rd. but this will only gain access to the north side of the creek. Although fire protentional is low in this area pine plantations on private to the west and south could cause issues with fire growth.

Additional Compartment Information:

The following reports from the Inventory are attached:

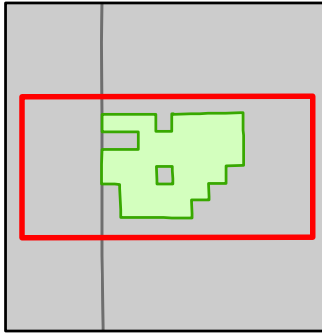
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

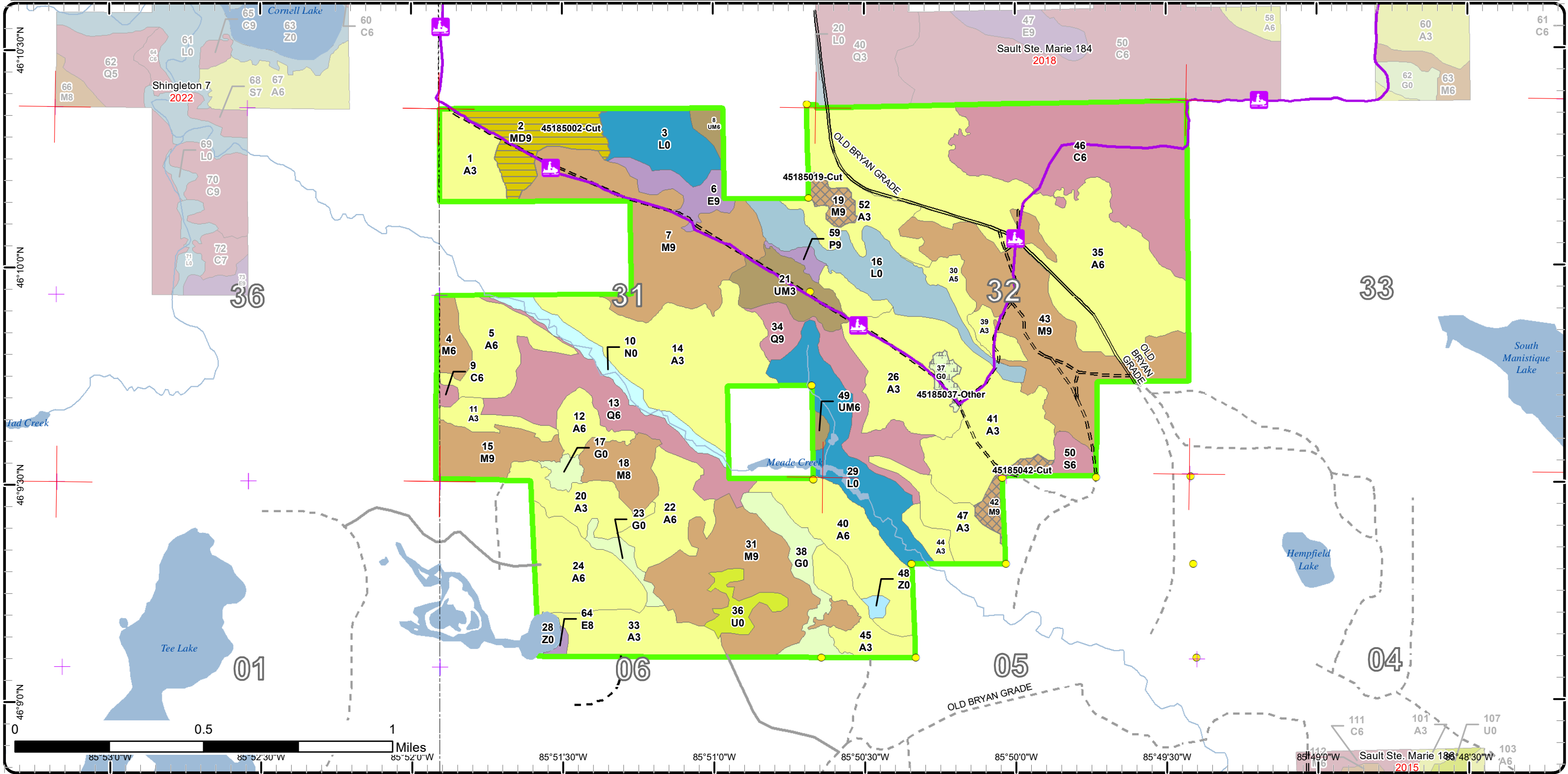
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 185
 T44N,R12W, Sec: 31, 32 /nT43N,
 R12W, Sec: 5, 6
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Milakokia Lake
 YOE: 2023
 Acres: 1401.6 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 1/31/2022
 Map Phase: Post Review

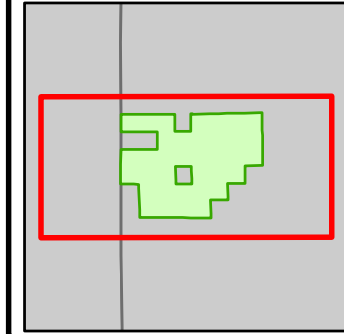


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

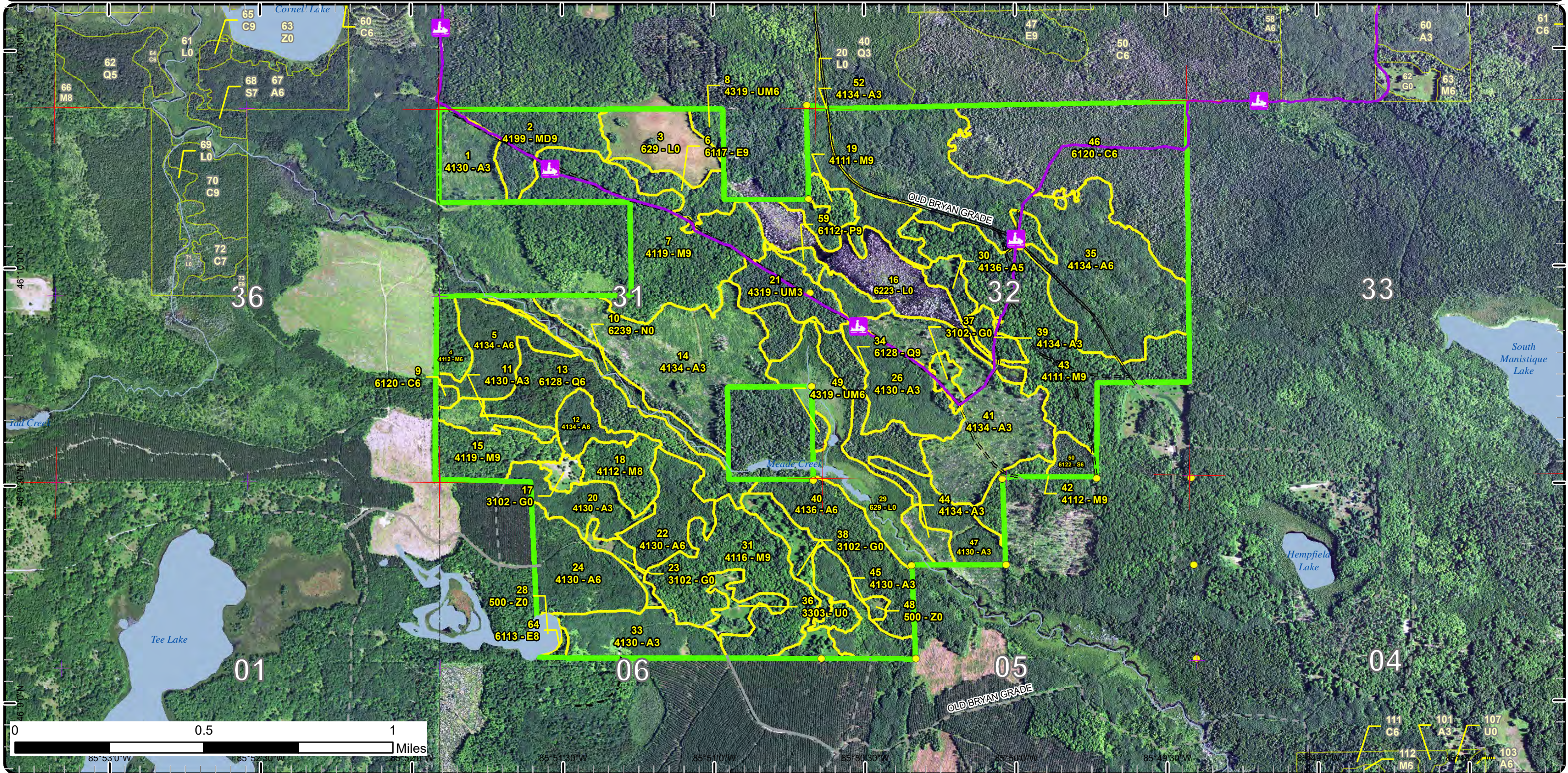


Stand Boundary Map

Compartment: 185
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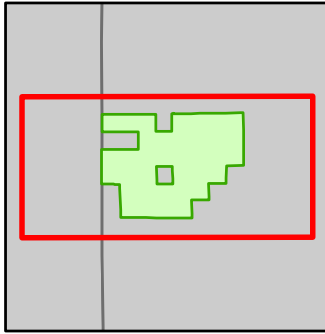


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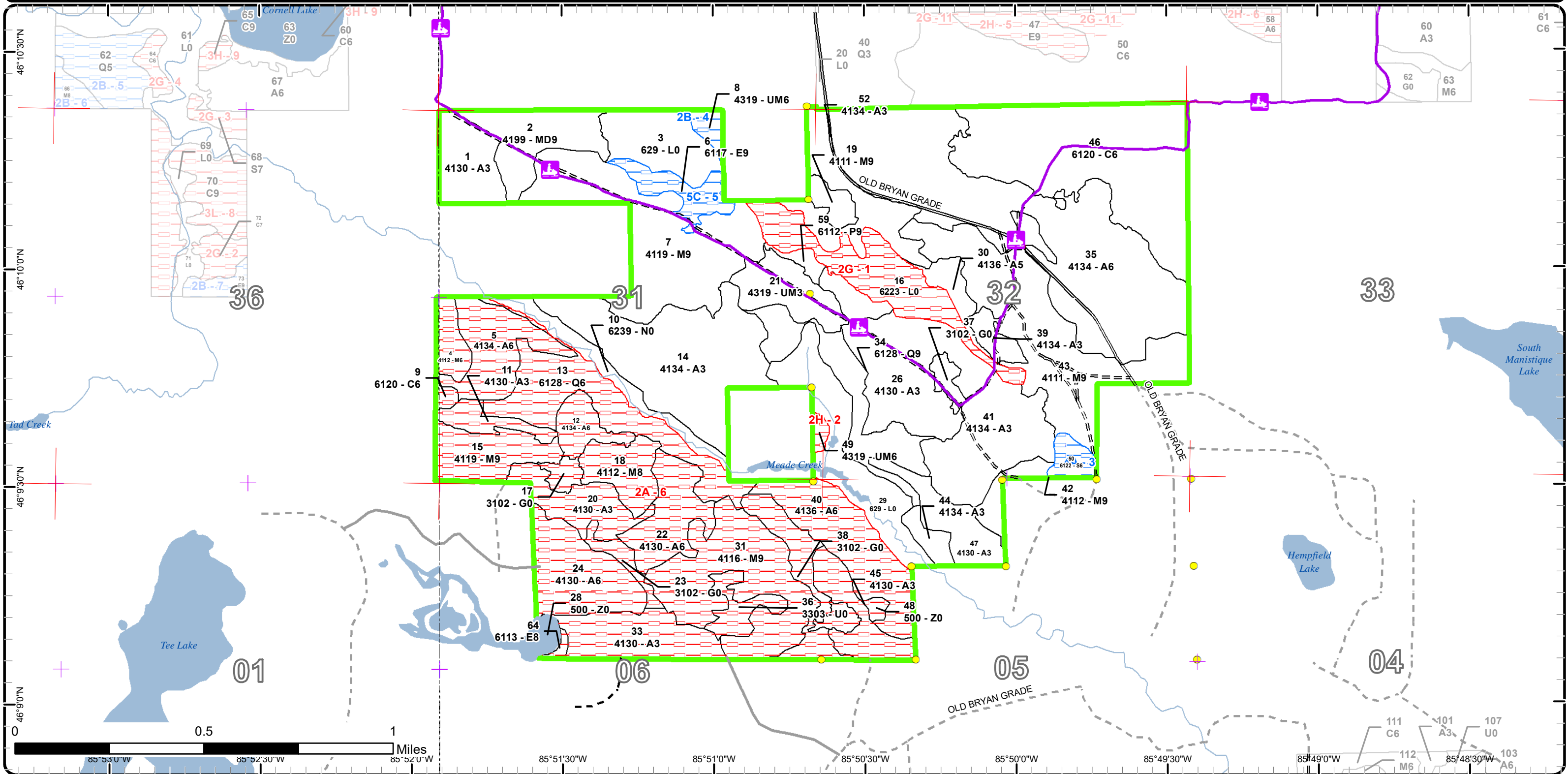


Special Conservation Areas

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T44N,R12W, Sec: 31, 32 /nT43N,
R12W, Sec: 5, 6
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- ❄ Snowmobile Trails
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- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 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)
- Stand Boundaries
- Cold Water Lakes



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	181	138	77	256	0	0	0	0	0	0	0	0	0	0	0	0	0	650
Cedar	0	0	0	0	0	0	0	0	0	0	0	106	2	0	0	0	0	0	108
Herbaceous Openland	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	33	0	0	47	0	0	0	0	0	0	0	79
Lowland Deciduous	0	0	0	0	0	0	0	0	1	14	0	0	0	0	0	0	0	0	15
Lowland Shrub	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Marsh	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	29
Northern Hardwood	0	0	0	0	0	0	0	117	15	165	0	0	0	0	0	0	0	0	297
Upland Mixed Forest	0	22	0	0	0	0	0	2	0	5	0	0	0	0	0	0	0	0	29
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	181	203	138	77	256	0	4	152	45	191	47	106	2	0	0	0	0	0	1398



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2023

Compartment 185
Total Compartment Acres: 1,402

Acres of Harvest

Commercial Harvest - 45
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	29	0	0	0	0	0	0	0	0	29
Northern Hardwood	0	15	0	0	0	0	0	0	0	15
Total	29	15	0	0	0	0	0	0	0	45

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	45	0	0	0	0	0	5	0	0	49
Next Step	0	0	0	0	0	45	0	0	0	45
Total	45	0	0	0	0	45	5	0	0	94



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

2	45185002-Cut	29.2	4199 - Other Mixed Upland Deciduous	Sawtimber Well	78	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees inches or more at dbh leaving any hemlock and cedar if found. Also leave 3-10% retention in pocket(s). Leave 2-5 scattered mature healthy ash, sugar maple, yellow birch, and healthy beech where present.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> maple, aspen, spruce, fir, beech, ash.</p> <p><u>Regen:</u></p> <p><u>Other</u> Follow snowmobile specs if cut in winter.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

19	45185019-Cut	6.9	4111 - S.Maple, Hard Mast Association	Sawtimber Well	77	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Leave 70-90 BA. Leave some larger wolfy trees if present. Maintain species diversity in the stand. Leave yellow birch.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully socked maple, beech, ash, cherry, fir, pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

37	45185037-Other	4.8	3102 - Grass	Nonstocked			Other	Other	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain opening via cutting trees and brush as needed, mowing, and/or burning. Plant wildlife trees and/or shrubs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
42 45185042-Cut	8.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	70	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand down to 70-90 BA. Maintain species diversity in the stand, including leaving many yellow birch and most or all conifers. Leave some large wolfy trees if present.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Maple, Beech, Cherry, Fir, Pine</p> <p><u>Other Comment:</u> Follow snowmobile specs if cut in the winter.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment 49.4
Acreage Proposed:

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 185

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions						
Acres	Available	With Condition	Not Available	2B	4A	5C	2A	2G	2H	
651	428	0	223	Aspen			223			
108	106	0	2	Cedar			2			
35	5	0	31	Herbaceous Openland			31			
11	0	0	11	Low-Density Trees			11			
3	3	0	0	Lowland Aspen/Balsam Poplar						
80	33	0	47	Lowland Conifers			47			
16	0	14	1	Lowland Deciduous		14	1			
112	70	0	41	Lowland Shrub				41		
7	0	7	0	Lowland Spruce/Fir		7				
17	17	0	0	Marsh						
29	29	0	0	Mixed Upland Deciduous						
290	181	0	109	Northern Hardwood			109			
29	22	5	2	Upland Mixed Forest	5				2	
6	0	0	6	Water			6			
1,393	894	26	473	Total Forested Acres	5	7	14	429	41	2
	64%	2%	34%	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	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	2I: Survey needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 185

Year of Entry: 2023

3	Available	4A: No Markets Available for these Forest Products	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Slow growing spruce stand that is not ready to be cut yet.							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2A: Adjacent landowner denied access	438	5F: Evaluated for Forest Health Considerations	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

Mgt. Unit

Compartment:

Year of Entry



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4130 - Aspen	Sapling Well	22.5	9	Immature	N/A	Stand was cut in 2013.																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>30</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>35</td> <td>Sapling</td> <td>1</td> <td>9</td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Sapling	1		Bigtooth Aspen	30	Sapling	1		Quaking Aspen	35	Sapling	1	9	Balsam Fir	15	Sapling	1	
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2	4199 - Other Mixed Upland Deciduous	Sawtimber Well	29.2	78	81-110	N/A	Ash and Beech are dead or dying.																																																																								
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3	629 - Mixed non-forested wetland	Nonstocked	27.5		Unspecified	No	
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4	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.7	66	81-110	N/A	Small diameter Maple and Beech with mix of Balsam and Aspen. Cut in '96. Check in 10 years. Ash is dead in stand.																																																						
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5	4134 - Aspen, Spruce/Fir	Poletimber Well	29.1	30	Immature	N/A	Cut in '92. Good aspen with mix of spruce and balsam.																				
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Balsam Fir	20	Pole/Sapling	5																								

6	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	14.4	89	111-140	N/A	Variable stand on fringe of wetland. Tag alder brush where sparse. Good buffer to wetlands.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
7	4119 - Mixed Northern Hardwoods	Sawtimber Well	78.6	82	51-80	N/A	Stand was contract marked. Cut in 2017. Debatable Maple #45-102-13-01.																																																
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8	4319 - Mixed Upland Forest	Poletimber Well	4.7	82	81-110	N/A	Small stand between large wetland and private. Poor quality mixed hardwood in smaller balsam and aspen.																																																
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9	6120 - Lowland Cedar	Poletimber Well	2.2	111	111-140	N/A	Stand of small diameter pole size cedar mixed with a balsam and spruce. Non-merchantable. Very wet.																																																
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10	6239 - Mixed Emergent Wetland	Nonstocked	16.6			No	Creek corridor																																																
11	4130 - Aspen	Sapling Well	9.4	15	201+	N/A	Cut in '07.																																																
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12	4134 - Aspen, Spruce/Fir	Poletimber Well	11.5	26	201+	N/A	Cut in '96 Sitting Bear Sale 37-94-02. Good regen mix.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 46.5 94 81-110 N/A Stand is mix of lowland cedar, birch, tag alder, and some red maple. very wet and not very productive...poor quality trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole/Sapling	5		Conifers	Low	Variable	Sapling
White Spruce	10	Pole	7					
Red Maple	15	Pole	8					
Northern White Cedar	45	Pole	8	94				
Paper Birch	10	Pole	6					
Yellow Birch	5	Pole/Log	8					

14 4134 - Aspen, Spruce/Fir Sapling Well 79.9 7 Immature N/A Stand was cut in 2015. Areas of lowland with heavy tag alder are scattered throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	
Balsam Fir	20	Sapling	2	
Bigtooth Aspen	15	Sapling	1	
Quaking Aspen	35	Sapling	1	7
Black Spruce	10	Sapling	2	

15 4119 - Mixed Northern Hardwoods Sawtimber Well 23.4 64 81-110 N/A Small diameter maple mix, with beech and balsam throughout. Thinned in '96 (Sitting Bear 37-94-02), a lot of beech dead. Check in 10 years. ba is near 110. Could thin stand but final harvest might be best for overall species composition. If hard maple is what is wanted then thin.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	60	Log/Pole	10	64	Maple (spp.)	Medium	Variable	Sapling
Balsam Fir	15	Pole	6		Balsam Fir	Medium	Variable	Sapling
Sugar Maple	15	Pole/Log	9		Beech	Medium	Variable	Sapling
Quaking Aspen	10	Pole/Log	9					

16 6223 - Inundated Shrub Swamp Nonstocked 41.4 Immature No High water table killed almost all trees.

17 3102 - Grass Nonstocked 4.5 No

18 4112 - Maple, Beech, Cherry Association Sawtimber Medium 18.3 66 51-80 N/A Mix of maple, beech, some yellow birch . A lot of dead beech keeps the basal areas low. Check in 10 years. Thinned in 96 Sitting Bear Sale 37-94-02

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Log/Pole	10	66	Maple (spp.)	Medium	Variable	Sapling
Beech	10	Log/Pole	10		Conifers	Low	Variable	Sapling
Sugar Maple	25	Log/Pole	10					
Balsam Fir	5	Pole	6					
Yellow Birch	5	Pole	8					

If cut final harvest stand is already low ba and has good regen coming in.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	4111 - S.Maple, Hard Mast Association	Sawtimber Well	6.9	77	81-110	N/A	Thinned two entries ago. Could thin this entry.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Log/Pole	11		Maple (spp.)	
Sugar Maple		65	Log/Pole	11	77	Beech	
Basswood		10	Log/Pole	11		Density	Avg. Height
Beech		10	Log/Pole	12		Medium	Variable
						Size	Sapling
20	4130 - Aspen	Sapling Well	21.2	15	201+	N/A	cut in '07.
Canopy Species		% Cover	Size Class	DBH	Age		
Black Cherry		10	Sapling	3			
Balsam Fir		5	Sapling	3			
Quaking Aspen		85	Sapling	3	15		
21	4319 - Mixed Upland Forest	Sapling Well	22.2	6	Immature	N/A	Stand was cut in 1966 and 2017.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		15	Sapling	1		Conifers	
White Spruce		15	Sapling	1		Density	Avg. Height
Balsam Fir		30	Sapling	1		High	< 5 feet
Quaking Aspen		40	Sapling	1	6	Size	Sapling
22	4130 - Aspen	Poletimber Well	26.0	30	171-200	N/A	Cut in '92 South Mead Creek Sale 3-91-02.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		5	Pole/Sapling	5			
Quaking Aspen		95	Pole/Sapling	6	30		
23	3102 - Grass	Nonstocked	5.9		Immature	No	
24	4130 - Aspen	Poletimber Well	35.5	26	201+	N/A	Cut in '96 Sitting Bear Sale 37-94-02. Some red maple in spots.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		10	Pole/Sapling	5			
Ironwood		5	Pole/Sapling	5			
Red Maple		10	Sapling	1			
Quaking Aspen		75	Pole/Sapling	5	26		
26	4130 - Aspen	Sapling Well	39.2	17	Immature	N/A	Good looking regen.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		30	Sapling	2			
Balsam Fir		10	Sapling	3			
Quaking Aspen		60	Sapling	2	17		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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28 500 - Water Nonstocked 3.7 Immature No

29 629 - Mixed non-forested wetland Nonstocked 42.7 Unspecified No

30 4136 - Aspen, Mixed Conifer Poletimber Medium 8.5 38 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Pole	8		Deciduous Saplings	Low		Sapling
Paper Birch	5	Pole	8		Conifers	Low		Sapling
Red Maple	25	Pole	8					
White Pine	5	Pole	6					
Balsam Fir	10	Pole	6					
Bigtooth Aspen	30	Pole	8	38				
White Spruce	5	Pole	6					

31 4116 - Mixed N. Hardwood - Aspen Sawtimber Well 66.0 69 81-110 N/A

Thinned in '07. If cutting stand final harvest because of lower ba and species composition. Ba is on lower side of range (about 85 ba)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Log/Pole	10	69	Maple (spp.)	Medium	Variable	Sapling
Sugar Maple	30	Log/Pole	10	69				
Quaking Aspen	20	Pole	8					
Balsam Fir	15	Pole	5					

33 4130 - Aspen Sapling Well 29.9 15 201+ N/A

Cut in '07

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling	3	
Quaking Aspen	95	Sapling	3	15

34 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 33.3 68 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	15	Log/Pole	12	
Quaking Aspen	15	Log	12	
Balsam Fir	10	Pole/Log	9	
Northern White Cedar	45	Log/Pole	13	68
Red Maple	15	Log/Pole	10	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
35	4134 - Aspen, Spruce/Fir	Poletimber Well	149.6	36	141-170	N/A	Mostly small diameter aspen with mix of birch, fir and cedar in wettest places. Mixed low and high ground. Cut in 1986. Fair amount of birch. In places along road merchantable. Hold 10 years and check for cut then.																																											
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36	3303 - Mixed Low Density Trees	Nonstocked	10.5		Unspecified	No	Stand is filling in with aspen and fir. Possible old fire plow line in north finger.																																											
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37	3102 - Grass	Nonstocked	4.8			No																																												
38	3102 - Grass	Nonstocked	20.1		Unspecified	No	Stand is filling in with cherry, aspen, maple, and fir.																																											
39	4134 - Aspen, Spruce/Fir	Sapling Well	7.1	6	Immature	N/A	Stand was cut in 1966 and 2017.																																											
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40	4136 - Aspen, Mixed Conifer	Poletimber Well	41.8	30	81-110	N/A	Cut in '92 South Mead Creek Sale 0-91-02. Wet in some spots. Bam in clumps all over. Heavy mix of balsam and spruce, birch. Could cut stand but size will vary because of low areas. Also it will have to be extremely dry summer or cold winter. North end of sand where stand 38 touches is way to wet.																																											
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41	4134 - Aspen, Spruce/Fir	Sapling Well	65.3	7	Immature	N/A	Stand was cut in 2015.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
42	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.5	70	81-110	N/A	Some areas with yellow birch.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Yellow Birch		5	Log	12		Conifers	
Beech		20	Log/Pole	11		Maple (spp.)	
Sugar Maple		45	Log/Pole	11	70	Density	
White Spruce		5	Pole	8		Avg. Height	
Red Maple		25	Log/Pole	10		Size	
43	4111 - S.Maple, Hard Mast Association	Sawtimber Well	86.7	82	81-110	N/A	Stand was thinned two entries ago. Nice hard maple throughout. Scattered baasswood and beech. If thinned this entry (2023) then odds are it will be 30 plus years before we enter again. Stand is on lower half of ba range.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Beech		10	Log	14		Beech	
Sugar Maple		60	Log	14	82	Maple (spp.)	
White Spruce		10	Log	14		Basswood	
Red Maple		10	Log	12		Density	
Basswood		10	Log	12		Avg. Height	
						Size	
44	4134 - Aspen, Spruce/Fir	Sapling Well	6.3	7	Immature	N/A	Stand was cut in 2015.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		50	Sapling	1	7		
Balsam Fir		15	Sapling	1			
Black Spruce		10	Sapling	1			
Red Maple		25	Sapling	1			
45	4130 - Aspen	Sapling Well	18.9	15	201+	N/A	cut in '07. good regen.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		5	Sapling	2			
Quaking Aspen		95	Sapling	1	15		
46	6120 - Lowland Cedar	Poletimber Well	106.0	105	171-200	N/A	Lowland cedar, 15-25 ft. tall, small diameter. Some balsam mixed in and tag alder where open. not much for merchantibility
Canopy Species		% Cover	Size Class	DBH	Age		
Northern White Cedar		90	Pole	7	105		
Balsam Fir		10	Pole	8			
47	4130 - Aspen	Sapling Well	19.6	14	201+	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
White Spruce		10	Sapling	1			
Quaking Aspen		90	Sapling	1	14		
48	500 - Water	Nonstocked	1.9			No	cattails and tag on edge



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49 4319 - Mixed Upland Forest Poletimber Well 2.3 68 111-140 N/A

50 6122 - Black Spruce Poletimber Well 7.0 82 171-200 N/A

Very thick, but small diameter black spruce. A few scattered large trees away from edge, but overall too small for harvest at this time.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling	4		Black Spruce	Medium	< 5 feet	Sapling
Black Spruce	80	Pole	5	82				
Bigtooth Aspen	10	Pole/Sapling	5					

52 4134 - Aspen, Spruce/Fir Sapling Well 29.8 25 201+ N/A

Was cut in 1997 Bryan Grade Bend Sale 05-95-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	45	Sapling	4	25	Balsam Fir	Medium	< 5 feet	Sapling
Paper Birch	10	Sapling	4		Red Maple	Low	< 5 feet	Sapling
Northern White Cedar	10	Pole/Sapling	5					
Red Maple	10	Sapling	4					
White Spruce	10	Sapling	4					
Balsam Fir	15	Sapling	4					

59 6112 - Lowland Aspen Sawtimber Well 3.5 54 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40	Log/Pole	10	54	Conifers	High	< 5 feet	Sapling
Paper Birch	15	Log/Pole	12					
Red Maple	30	Pole/Log	9					
Black Spruce	15	Log/Pole	10					

64 6113 - Lowland Maple Sawtimber Medium 1.4 71 81-110 N/A

Small stand of red maple and some aspen. Lower basal areas with aspen regen in holes. Narrow stand along compartment boundary, no corners. Stand is starting to die out because of flooding within the stand. Depending on the year it is either lowland or upland because of beaver activity.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Pole	7	
Quaking Aspen	5	Pole	8	
Red Maple	90	Log	14	71