



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45049

Entry Year 2023

Acreage: 1,922

County Chippewa

Management Area: North Rudyard

Stand Examiner: Josh Brinks

Legal Description:

T46N R3W Sections 35 & 36

T45N R3W Sections 1 & 2

Identified Planning Goals:

Except for a few low ridges and some old agricultural openings this compartment is wet. Due to mounting mortality in the over mature "P" types and the difficulty of access, the entire timber component was offered for sale in the 1980's, with the exception of an immature spruce type in section 2 and some other stands along the eastern edge of section 2. The accessible timber was harvested except for some scattered paper birch that was left in hopes of providing winter food for the sharptailed grouse which are abundant in this compartment.

The proposed management for this entry cycle is the spruce, a couple of lowland aspen stands, and an area in the northeast of the compartment that was not accessible from the south when the compartment was sold in the 80's. The access for this entry would be from the east as that compartment has been harvested recently and winter roads have been established. Other areas that were not harvested in the 80's have been factor limited do to access issues, there is one area north of the spruce that may be offered as an optional unit as part of the spruce sale.

Soil and topography:

About 80% of the area is Pickford silty clay loam. This area is very wet and generally covered with willow and tag alder. Slight rises support a marginal stocking of aspen and balsam poplar. The Allendale-Fiber complex covers another 15% of the area. This soil type generally makes up the low ridges which support more aspen, paper birch and spruce fir. The rest of the area is generally Allendale loamy fine sand and is found in scattered pockets. Except for low ridges and stream banks, this compartment is flat.

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

This single block of tax reverted land is generally bounded by other State of Michigan ownership on the east and south, there is one private parcel located to the south, USFS ownership on the west, and private land on the north.

Unique Natural Features:

The numerous branches of the Waiska river create a unique landscape in this compartment. There are a number of beaver ponds along the rivers. The banks and land adjacent are often grassy openings. This creates habitat that is pretty unique to this area.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Tributaries to the Waishkey River are located within this compartment. These tributaries are all less than 50 feet in width and are classified as warm water streams. Any treatments proposed near surface water need to maintain a buffer of 100 ft, plus 5 ft per 1% increase in slope.

Wildlife Habitat Considerations:

This compartment is part of the North Rudyard Management Area where featured wildlife species include American woodcock, red-shouldered hawk, ruffed grouse, and white-tailed deer. Pre-settlement vegetation consisted primarily of lowland conifers on poorly drained soils. Lowland brush and marsh now persist with stands of poplar and black spruce intermixed. Most of the aspen is younger, although a few stands of mature aspen remain. Several tributaries of the Waiska River flow east through the compartment. Beaver activity is common along these tributaries, and several beaver floodings provide habitat for wood ducks and other waterfowl. The Ottawa National Forest abuts the western boundary of

this compartment.

Wildlife objectives are similar to the last entry and include maintaining aspen where it exists and maintaining the marsh and riparian habitats. Young aspen stands will be allowed to mature. Some mature aspen is targeted for treatment to maintain the aspen resource while providing some age class diversity. These actions will benefit ruffed grouse and woodcock as well as deer, bear, and other species. Some lowland spruce will be targeted for treatment to provide younger conifer habitat beneficial for snowshoe hare. Other more mature stands will remain, providing habitat for migratory birds and other species. Stream and riparian areas will be protected, encouraging beaver as well as ducks and other birds.

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. The nearest active sand/gravel pit is just over two miles to the southeast, but potential for sand & gravel within the compartment appears to be limited. No other known mineral potential exists in this area.

Vehicle Access:

There is virtually no vehicle access to or into this compartment. The Spile Dam road runs the southern boarder of this compartment. This is a closed road that is only open to ORV traffic. There are several old logging roads in the compartment left over from when this area was logged. They are mostly growing in except for a few that have ben kept open by snowmobile and ORV traffic.

Survey Needs:

There is survey work being requested in sections 36 and section 2 to help establish property lines for timber sales.

Recreational Facilities and Opportunities:

A snowmobile trail forms the south boundary of this compartment. Other recreation generally consists of hunting and trapping.

Fire Protection:

This compartment is fairly wet and once greened up has a pretty low fire risk. If there were a fire in this compartment access would be an issue.

Additional Compartment Information:

The following reports from the Inventory are attached:

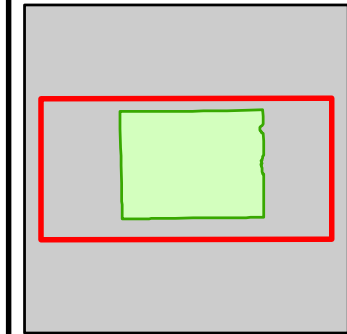
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

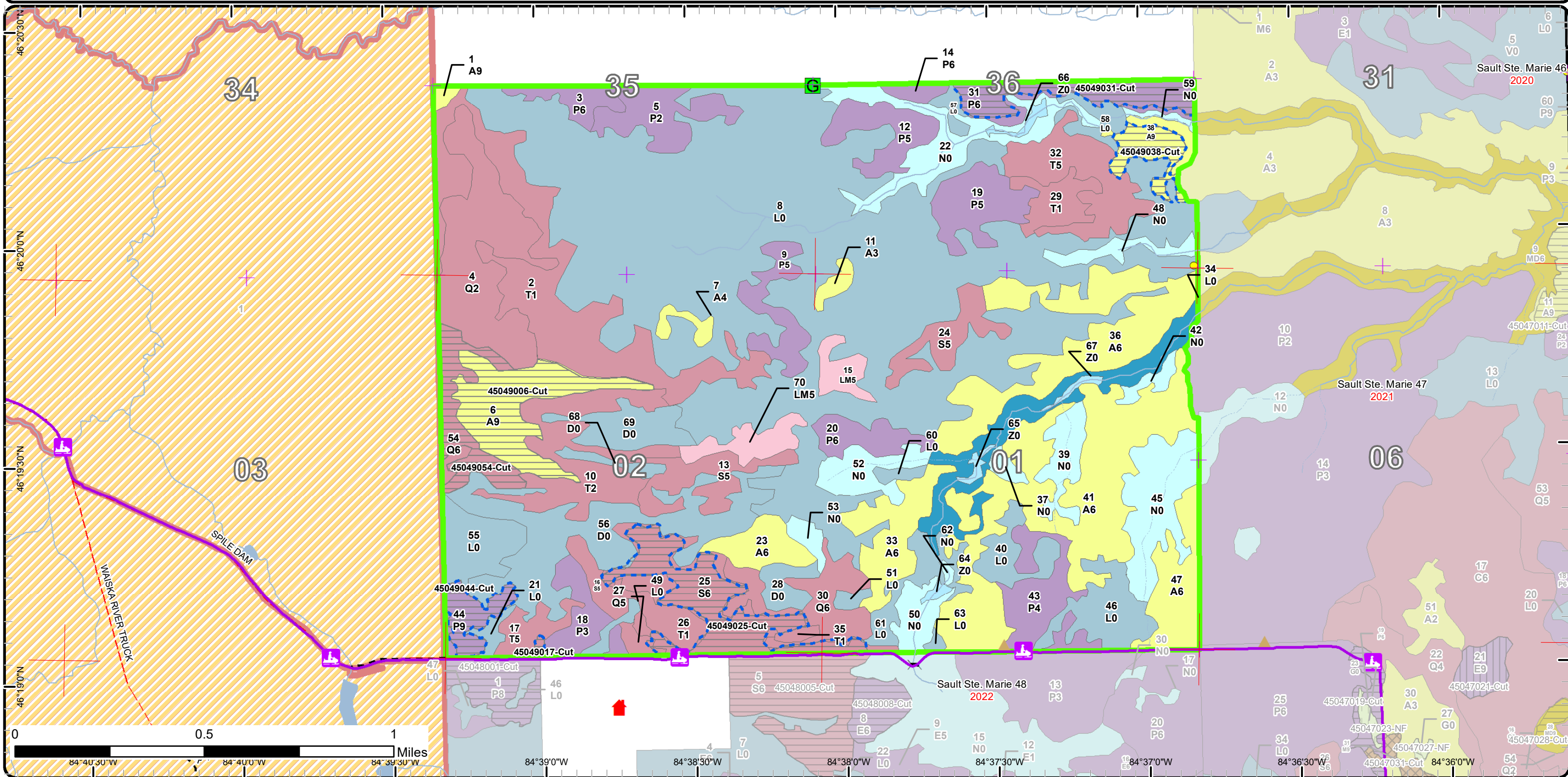
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 49
 T46N, R03W, Sec: 35, 36
 T45, R03W, Sec: 1, 2
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: North Rudyard
 YOE: 2023
 Acres: 1922.3 GIS Calculated
 Examiner: Josh Brinks
 Map Revised: 1/28/2022
 Map Phase: Post Review

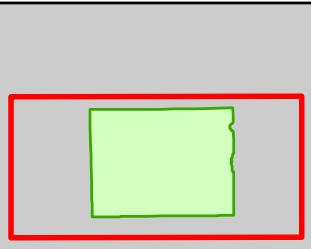


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- - Federal / State - Dirt / Gravel Road
- · - · County - Gravel Road
- - - - County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Cabin
- ▲ Berms
- G Gate
- Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- 413 - Aspen
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

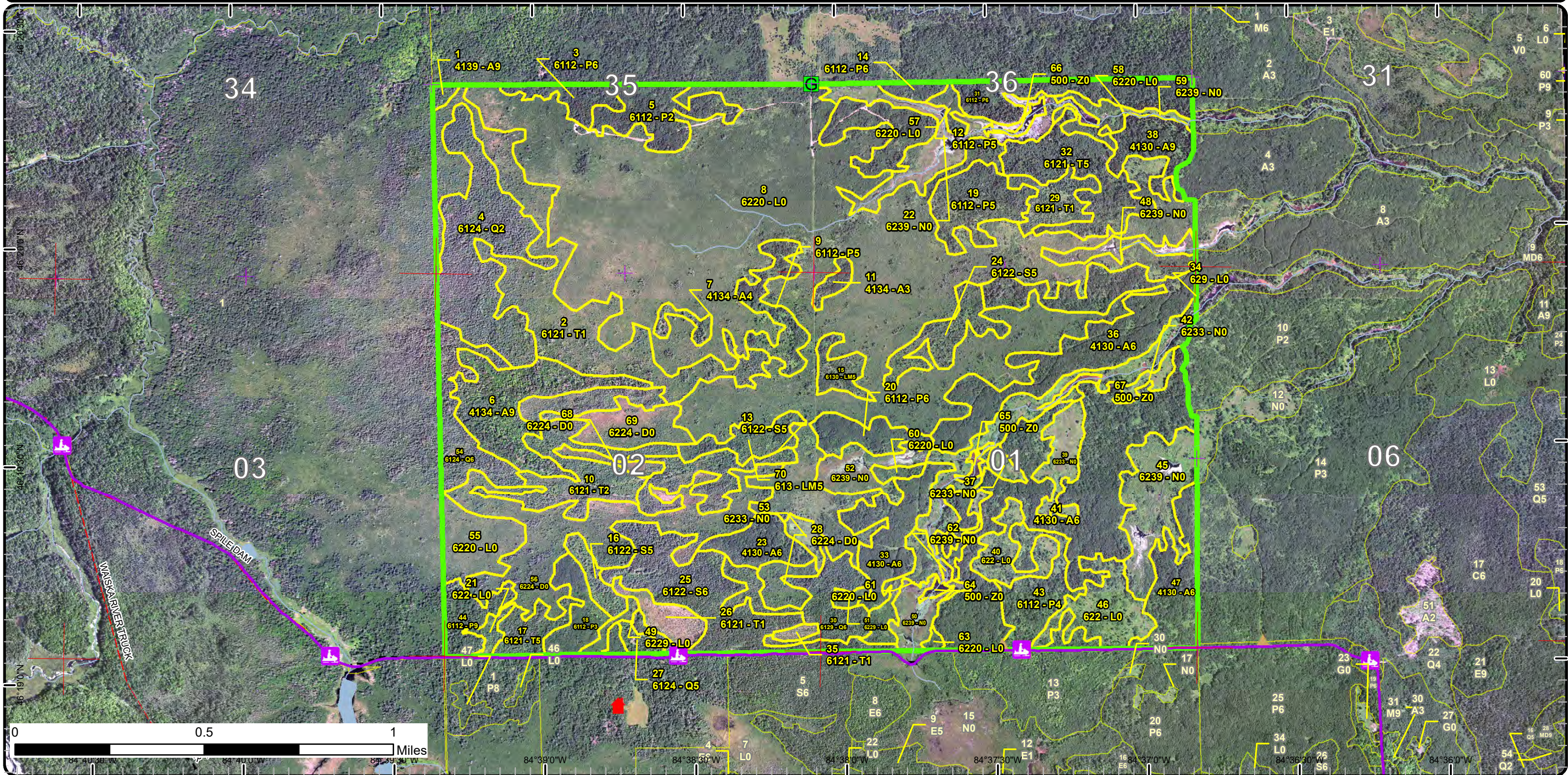


Stand Boundary Map

Compartment: 49
 T46N, R03W, Sec: 35, 36
 T45, R03W, Sec: 1, 2
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: North Rudyard
 YOE: 2023
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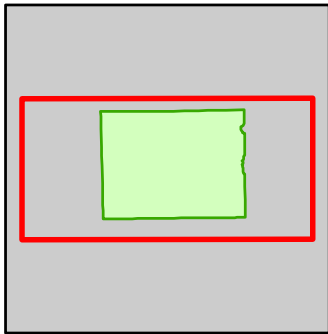


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- Survey Grade Corners
- Counties
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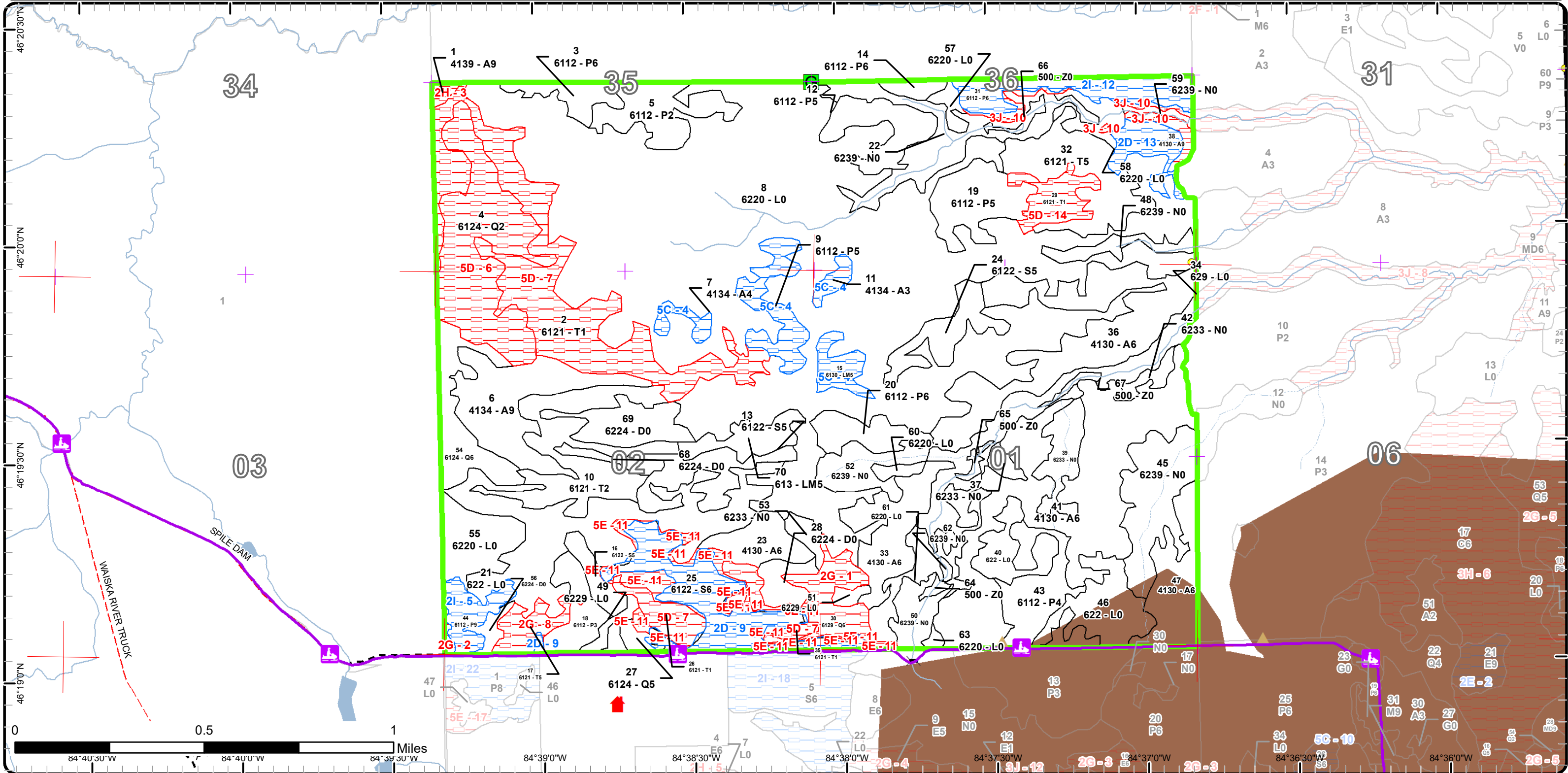


Special Conservation Areas

Compartment: 49
 T46N, R03W, Sec: 35, 36
 T45, R03W, Sec: 1, 2
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: North Rudyard
 YOE: 2023
 Acres: 1922.3 GIS Calculated
 Examiner: Josh Brinks
 Map Revised: 1/28/2022
 Map Phase: Post Review



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|--|--|--|
| — Miris Corners | — Intermittent Stream | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) |
| — Remonumented Section Corners | — Lake/Pond | 3J: Water quality / BMPs (stream, river, or lake) |
| ● Survey Grade Corners | — Perennial River | 5D: Unproductive Forest Land |
| — Counties | — Lakes and Rivers | 5E: Long-Term Retention |
| — Federal / State - Dirt / Gravel Road | — Compartment Boundary | — Stand Boundaries |
| — County - Gravel Road | — Available w/ Constraints | — Cold Water Streams |
| — County - Dirt Road (Seasonal) | 2D: Portable Bridge Needed (Dept. bridge will be adequate) | ■ Deer Winter Range |
| — Snowmobile Trails | 2I: Survey needed | |
| — Designated Snowmobile Trails | 5C: Delay treatment for age/size class diversity or exceptional site quality | |
| ▲ Cabin | — Unavailable | |
| ▲ Berms | 2G: Too wet (sensitive soils, does not include access issues) | |
| ▲ Gate | | |
| — Bridges | | |



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+	Unnever-Aged	Total
Aspen	0	0	0	229	0	46	0	0	2	5	42	0	0	0	0	0	0	0	324
Lowland Aspen/Balsam Poplar	0	0	0	126	0	36	0	30	0	14	0	0	0	0	0	0	0	0	206
Lowland Conifers	0	0	0	0	0	4	91	28	0	0	0	0	0	0	0	0	0	0	123
Lowland Mixed Forest	0	0	0	9	0	13	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Shrub	695	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	695
Lowland Spruce/Fir	0	0	0	8	0	18	0	21	0	55	0	0	0	0	0	0	0	0	102
Marsh	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135
Tamarack	0	0	0	46	25	124	2	12	0	0	0	0	0	0	0	0	0	0	209
Treed Bog	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	941	0	0	418	25	241	93	91	2	74	42	0	0	0	0	0	0	0	1927



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 49
Total Compartment Acres: 1,922

Commercial Harvest - 65
Harvests with Site Condition - 95
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	54	0	0	0	0	0	0	0	0	54
Lowland Aspen/Balsam Poplar	37	0	0	0	0	0	0	0	0	37
Lowland Conifers	23	0	0	0	0	0	0	0	0	23
Lowland Spruce/Fir	44	0	0	0	0	0	0	0	0	44
Tamarack	1	0	0	0	0	0	0	0	0	1
Total	160	0	0	0	0	0	0	0	0	160

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	160	0	0	0	0	0	0	0	0	160
Next Step	0	0	0	0	0	0	160	0	0	160
Total	160	0	0	0	0	0	160	0	0	320



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:

6	45049006-Cut	41.5	4134 - Aspen, Spruce/Fir	Sawtimber Well	91	51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees down to 2" in DBH. DO not cut pine, oak, hemlock, cedar or yellow birch. Leave one half acre retention patch for every 10 acres of harvest.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, ash, spruce, fir, cedar, tamarack and pine.</p> <p><u>Other Comment:</u> OYE treatment to be cut with compartment to the south. This may end up being an optional unit because of the difficulty of access. The treatment size and shape is going to vary once the lines are established.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2021</p>											

17	45049017-Cut	0.9	6121 - Tamarack	Poletimber Medium	60	51-80	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees down to 2". Do not cut pine, hemlock, yellow birch, oak or cedar if present. No retention needed because treatment area is less than 10 acres.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, maple, birch, spruce, fir, tamarack, pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed Proposed Start Date: 10/1 /2021</p>											

25	45049025-Cut	44.1	6122 - Black Spruce	Poletimber Well	89	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees down to 2" in DBH. This stand was previously set up and never cut. Freshen up the red line and mark some scattered leave patches for retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes spruce, fir, aspen, birch, maple, tamarack, cedar and pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed Proposed Start Date: 10/1 /2021</p>											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
31	45049031-Cut	24.7	6112 - Lowland Aspen	Poletimber Well	63	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2" in DBH. Do not cut oak, hemlock, pine, cedar or yellow birch. Buffer open water by 100' or stay at the top of the ravine which ever is further. This buffer will act as retention for the harvest. Treatment lines will vary.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, pine, and oak.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
38	45049038-Cut	12.8	4130 - Aspen	Sawtimber Well	41	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2" in DBH. DO not cut cedar, hemlock, pine, oak and yellow birch if present. The treatment boundary will change, if it ends up being larger than 10 acres then leave a retention patch.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, maple, birch, spruce, fir, pine, oak.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
44	45049044-Cut	12.5	6112 - Lowland Aspen	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2". Leave all pine, cedar, hemlock, yellow birch, and oak. If the treatment ends up being greater than 10 acres then leave a patch of retention focused on wetter ground in the stand,</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, ash, pine, tamarack and cedar.</p> <p><u>Other Comment:</u> OYE treatment to be cut with adjacent compartment to the south.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
54	45049054-Cut	23.4	6124 - Lowland Spruce-Fir	Poletimber Well	56	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> This treatment shape will change, we will include as much of the merchantable area as possible. Cut all trees down to 2" except do not cut white pine, red pine, cedar, hemlock, and yellow birch if they are present. If the treatment is more than 10 acres leave a retention patch.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes spruce, tamarack, pine, cedar, fir, maple and birch.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
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Total Treatment Acreage Proposed: 159.9

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 49

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres <i>With Condition</i>	Acres Not Available
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Dominant Site Conditions

	Total Acres	Acres Available	Acres <i>With Condition</i>	Acres Not Available	Dominant Site Conditions							
					2D	2I	5C	2G	2H	3J	5D	5E
323	294	22	7	Aspen	13		9		2	5		
205	143	56	6	Lowland Aspen/Balsam Poplar		37	18	1		5		
122	30	1	90	Lowland Conifers	1			25			65	
22	13	9	0	Lowland Mixed Forest			9					
695	695	0	0	Lowland Shrub								
102	47	42	13	Lowland Spruce/Fir	42							13
135	135	0	0	Marsh								
209	81	1	126	Tamarack	1			11			115	
104	103	0	0	Treed Bog	0							
7	7	0	0	Water								
1,922	1,548	131	243	Total Forested Acres	58	37	36	38	2	10	180	13
	81%	7%	13%	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)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area was too wet during the 2023 YOE inventory but may be operable if the water able drops in the future.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Part of this area is tag alder too small to type out and part is being left as retention.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 49

Year of Entry: 2023

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5D: Unproductive Forest Land	65	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5D: Unproductive Forest Land	101	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 49

Year of Entry: 2023

9	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2I: Survey needed	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5D: Unproductive Forest Land	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4139 - Aspen, Mixed Deciduous	Sawtimber Well	2.1	79	81-110	N/A	Stand data is from the 2013 YOE Inventory.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		45	Log/Pole	10	79	Balsam Fir	Low	5 - 10 feet	Sapling
Red Maple		40	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir		15	Pole	7		Red Maple	Low	10 - 20 feet	Sapling
2	6121 - Tamarack	Sapling Poor	88.4	46		N/A	Scattered tamarack and fir.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		40	Sapling	3	46	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack		60	Sapling/Pole	4	46				
3	6112 - Lowland Aspen	Poletimber Well	10.7	41	51-80	N/A	Scattered large log aspen with pole and sapling size trees dominating the canopy. Mostly tag alder understory.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar		25	Log/Pole	13		Aspen (spp.)	Low	Variable	Sapling
Quaking Aspen		75	Pole/Sap/Log	8	41	Tag Alder	Low	5 - 10 feet	Tall Shrub
4	6124 - Lowland Spruce-Fir	Sapling Medium	65.2	56	1-50	N/A	Tamarack and spruce over a mix of lowland shrubs and fir. Some higher ground with red maple and birch. Not a very productive stand and very wet.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		35	Sapling/Pole	4		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir		20	Sapling	3					
Paper Birch		5	Sapling/Pole	4					
Tamarack		38	Sapling/Pole	4	56				
Red Maple		2	Pole	6					
5	6112 - Lowland Aspen	Sapling Medium	24.3	26	Immature	N/A	This stand has smaller diameter than adjacent. Aspen over tag alder.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling/Pole	2	26	Tag Alder	Low	5 - 10 feet	Tall Shrub
6	4134 - Aspen, Spruce/Fir	Sawtimber Well	42.1	91	51-80	N/A	This is a mixed deciduous stand, There is a ridge running through the unit that has a mix of BT aspen, red maple and paper birch. In some areas the aspen has started to fall out and is filling in with balsam fir.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		5	Pole	5		Black Spruce	Low	5 - 10 feet	Sapling
Balsam Fir		15	Pole	7		Balsam Fir	High	Variable	Sapling
Paper Birch		15	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling
Red Maple		10	Log/Pole	12		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		30	Log/Pole	12	91	Aspen (spp.)	Low	5 - 10 feet	Sapling
Bigtooth Aspen		25	Log	15					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	4134 - Aspen, Spruce/Fir	Poletimber Poor	4.6	83	1-50	N/A	Stand data from the 2013 YOE inventory.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	35	Pole	6		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	40	Log/Pole	12	83	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	25	Pole	5		Quaking Aspen	Low	< 5 feet	Sapling

8	6220 - Alder/willow	Nonstocked	556.6			No	
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9	6112 - Lowland Aspen	Poletimber Medium	18.4	26	51-80	N/A	North half of this stand is decent aspen which gets more sparse and mixed with conifers in the south.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole/Sapling	5	26	Tag Alder	High	5 - 10 feet	Tall Shrub
Paper Birch	20	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Tamarack	4	Sapling/Pole	2					
Black Spruce	6	Sapling/Pole	3					
Balsam Fir	20	Pole/Sapling	5					

10	6121 - Tamarack	Sapling Medium	45.7	26		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Sapling	2		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	12	Sapling	1					
Quaking Aspen	3	Sapling	1					
Paper Birch	5	Pole/Sapling	7					
Tamarack	65	Sapling	2	26				

11	4134 - Aspen, Spruce/Fir	Sapling Well	4.2	26	Immature	N/A	Island of mostly upland aspen that transitions into aspen over tag alder closer to the wetland edges. Also some black spruce along the wetland edges.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling/Pole	4		Balsam Fir	Low	Variable	Sapling
White Spruce	10	Log/Pole	10		Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	3	Sapling/Pole	3		Willow spp.	Medium	5 - 10 feet	Tall Shrub
Black Spruce	10	Pole	8					
Quaking Aspen	67	Sapling/Pole	4	26				

12	6112 - Lowland Aspen	Poletimber Medium	20.3	26	51-80	N/A	Decent stand of aspen with areas of tag alder in the understory and scattered conifer trees. The finger to the southeast was not cut and is more scattered aspen over tag alder.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	10	Sapling/Pole	4		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	3	Sapling/Pole	4					
Quaking Aspen	84	Pole/Sapling	5	26				
Balsam Fir	3	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13	6122 - Black Spruce	Poletimber Medium	21.2	61	51-80	N/A	Patchy stand with areas of decent spruce and tamarack and others of more open grown trees with lowland shrubs. Small diameters over all.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	2	Pole/Sapling	5	
Tamarack	18	Pole/Sapling	5	
Black Spruce	80	Pole/Sapling	5	61

14	6112 - Lowland Aspen	Poletimber Well	4.4	26	51-80	N/A	Decent stand of young aspen similar to the stand south of the stream.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling	4	
Quaking Aspen	90	Pole/Sapling	5	26
White Spruce	2	Sapling/Pole	4	
Paper Birch	3	Sapling	3	

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

15	6130 - Fir, Aspen, Maple	Poletimber Medium	9.2	26	51-80	N/A	Nice patch of aspen in SE corner transitions to lower ground with scattered canopy.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Sapling/Pole	4	
Paper Birch	10	Pole/Sapling	5	
Red Maple	10	Pole/Sapling	5	
Quaking Aspen	33	Pole/Sapling	5	26
Balsam Fir	27	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

16	6122 - Black Spruce	Poletimber Medium	7.8	26	51-80	N/A	Some ridges in this stand of spruce/fir. Most of the stand is small pole and sapling size trees.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Sapling/Pole	3	
Paper Birch	7	Pole	5	
Tamarack	15	Pole/Sapling	5	
Red Maple	5	Pole	7	
Black Spruce	55	Pole/Sapling	5	26
Quaking Aspen	3	Pole/Sapling	6	

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

17	6121 - Tamarack	Poletimber Medium	11.8	60	51-80	N/A	Low ground with tamarack and spruce. Small inclusion of quaking aspen in the SE corner should be cut.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Pole	6	
Black Spruce	15	Pole	6	
Tamarack	60	Pole	7	60
White Spruce	10	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Tag Alder	Full	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	6112 - Lowland Aspen	Sapling Well	16.6	26	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		5	Sapling	1		Tag Alder	
Balsam Fir		12	Sapling	1		Paper Birch	
Black Spruce		8	Sapling	1		Density	
Quaking Aspen		75	Sapling	3	26	Avg. Height	
						Size	
19	6112 - Lowland Aspen	Poletimber Medium	25.0	41	51-80	N/A	Scattered aspen over tag alder.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		10	Pole/Sapling	5		Tag Alder	
Quaking Aspen		85	Pole/Sapling	7	41	Density	
Black Spruce		5	Sapling/Pole	4		Avg. Height	
						Size	
20	6112 - Lowland Aspen	Poletimber Well	14.1	26	81-110	N/A	This stand has a mix of lowland and upland ground. Decent aspen stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole	6		Tag Alder	
Balsam Fir		5	Pole	6		Aspen (spp.)	
Quaking Aspen		80	Pole/Sapling	5	26	Balsam Fir	
Balsam Poplar		10	Pole/Sapling	5		Density	
						Avg. Height	
						Size	
21	622 - Lowland Shrub	Nonstocked	3.9			No	
22	6239 - Mixed Emergent Wetland	Nonstocked	34.0			No	Branch of the Waiska R. with lots of beaver ponds.
23	4130 - Aspen	Poletimber Well	15.3	26	Immature	N/A	Most of this stand is pole sized with some log size trees along the eastern edge.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole	9		Tag Alder	
Balsam Fir		3	Sapling	2		Balsam Fir	
Quaking Aspen		87	Pole/Log/Sap	7	26	Aspen (spp.)	
Balsam Poplar		5	Pole	6		Density	
						Avg. Height	
						Size	
24	6122 - Black Spruce	Poletimber Medium	17.8	41	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		55	Pole/Sapling	5	41	Tag Alder	
Balsam Fir		15	Sapling/Pole	4		Density	
Paper Birch		5	Sapling	2		Avg. Height	
Quaking Aspen		25	Pole/Sapling	6		Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25	6122 - Black Spruce	Poletimber Well	54.9	89	81-110	N/A	Decent stand of Spruce and Tamarack with some scattered pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		28	Pole	9		Balsam Fir	
Black Spruce		55	Pole	8	89	Medium	
Paper Birch		2	Pole	7		5 - 10 feet	
Balsam Fir		5	Pole	6		Sapling	
Jack Pine		10	Pole	6		Black Spruce	
						Medium	
						5 - 10 feet	
						Sapling	

26	6121 - Tamarack	Sapling Poor	10.9	38	1-50	N/A	Unproductive, bog stand that is mostly less than 10' tall.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		1	Sapling	2		Balsam Fir	
Black Spruce		20	Sapling	1		Medium	
Tamarack		79	Sapling	2	38	5 - 10 feet	
						Sapling	

27	6124 - Lowland Spruce-Fir	Poletimber Medium	3.7	41	51-80	N/A	Center of the stand is an upland ridge that transitions to lowland.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		10	Pole/Sapling	6	41	Red Maple	
Jack Pine		5	Pole	8		Trace	
Balsam Fir		18	Pole/Sapling	5		5 - 10 feet	
White Spruce		10	Pole/Log	9		Sapling	
Black Spruce		25	Pole/Sapling	6		Black Spruce	
Paper Birch		5	Pole	6		Low	
Tamarack		27	Pole/Sapling	6	41	5 - 10 feet	
						Tall Shrub	
						Sapling	

28	6224 - Treed Bog	Nonstocked	8.6		Unspecified	No	Scattered aspen, tamarack, fir and spruce
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29	6121 - Tamarack	Sapling Poor	14.0	33		N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		100	Sapling	1	33	Tag Alder	
						Medium	
						5 - 10 feet	
						Tall Shrub	

30	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	27.5	68	51-80	N/A	Smaller diameter stand of spruce and tamarack. The wettest areas have tamarack and tag alder. Likely too wet to harvest.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		45	Pole/Sapling	5	68	Tag Alder	
Black Spruce		30	Pole/Sapling	5		Medium	
Quaking Aspen		3	Pole	7		5 - 10 feet	
Jack Pine		7	Pole	6		Tall Shrub	
Balsam Fir		12	Pole/Sapling	5			
Paper Birch		3	Pole/Sapling	5			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31	6112 - Lowland Aspen	Poletimber Well	29.5	63	81-110	N/A	Variable stand, the west end is larger log size aspen, the middle is wet with a mix of tamarack and the east is another nice area of pole and log size aspen.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Tamarack		18	Pole	7		Balsam Fir		Low	Variable	Sapling	
Paper Birch		5	Pole	5		Willow spp.		Low	5 - 10 feet	Tall Shrub	
Balsam Poplar		5	Pole	7		Tag Alder		High	5 - 10 feet	Tall Shrub	
Quaking Aspen		58	Pole/Log	9	63						
White Spruce		2	Pole	8							
Balsam Fir		10	Pole	6							
Red Maple		2	Pole	6							

32	6121 - Tamarack	Poletimber Medium	35.5	41		N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		90	Pole/Sapling	5	41	Tag Alder		High	5 - 10 feet	Tall Shrub
Quaking Aspen		7	Pole	6						
Black Spruce		3	Pole	5						

33	4130 - Aspen	Poletimber Well	27.6	26	51-80	N/A	Aspen is doing well. There is a trace of oak and elm in the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		2	Pole	6		Tag Alder		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		93	Pole/Sapling	5	26	Balsam Fir		Low	Variable	Sapling
Paper Birch		2	Pole	5						
Red Maple		3	Pole	6						

34	629 - Mixed non-forested wetland	Nonstocked	36.4		Unspecified	No	Branch of the Waika River runs through this stand. Areas of tag alder and wet meadow. Some spots are more well drained and resemble upland grasslands adjacent to the river.
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35	6121 - Tamarack	Sapling Poor	2.3	53	1-50	N/A	Very wet and unproductive stand.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black Spruce		15	Sapling	2						
Jack Pine		15	Sapling	3						
Tamarack		70	Sapling	2	53					

36	4130 - Aspen	Poletimber Well	70.0	26	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Poplar		5	Pole	6		Aspen (spp.)		Medium	10 - 20 feet	Sapling
Balsam Fir		5	Pole/Sapling	5		Balsam Fir		Low	5 - 10 feet	Sapling
Tamarack		3	Pole/Sapling	5		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		84	Pole/Sapling	5	26					
Red Maple		3	Pole	6						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
37	6233 - Wet Meadow	Nonstocked	3.4			No																																											
38	4130 - Aspen	Sawtimber Well	17.9	41	51-80	N/A	Fairly open, mature aspen over advanced aspen regen. Conifers line the drainage in this stand. There are some scattered white oaks.																																										
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39	6233 - Wet Meadow	Nonstocked	14.2			No																																											
40	622 - Lowland Shrub	Nonstocked	14.5		Immature	No	Mostly tag alder with some scattered trees.																																										
41	4130 - Aspen	Poletimber Well	111.7	26	51-80	N/A	This stand contains both upland and lowland ground. The low ground is growing tag alder in the understory. There are a few scattered white oak in this stand. You can also find large log size trees.																																										
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42	6233 - Wet Meadow	Nonstocked	4.6		Unspecified	No																																											
43	6112 - Lowland Aspen	Poletimber Poor	27.8	26	1-50	N/A	Low, very wet ground that is growing aspen over top of tag alder.																																										
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Willow spp.	Medium	5 - 10 feet	Tall Shrub																																														
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44	6112 - Lowland Aspen	Sawtimber Well	13.8	80	81-110	N/A	Stand of larger diameter aspen with balsam fir and areas of tag alder. Strip of tag alder along the western boundary.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
45	6239 - Mixed Emergent Wetland	Nonstocked	35.2		Unspecified	No	Stand is a mix of emergent wetland including beaver ponds along with the adjacent wet meadows.																																										
46	622 - Lowland Shrub	Nonstocked	24.5		Unspecified	No	Tag alder with scattered trees.																																										
47	4130 - Aspen	Poletimber Well	27.6	41	51-80	N/A	Mostly a small pole size stand, there are some patches of sapling trees in the north and south ends of this stand.																																										
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48	6239 - Mixed Emergent Wetland	Nonstocked	8.4		Unspecified	No	Wetland with many beaver ponds.																																										
49	6229 - Mixed lowland shrub	Nonstocked	3.5	0		No																																											
50	6239 - Mixed Emergent Wetland	Nonstocked	11.5		Unspecified	No	Branch of the Waiska River runs through this stand. Areas of tag alder and wet meadow. Some spots are more well drained and resemble upland grasslands adjacent to the river.																																										
51	6229 - Mixed lowland shrub	Nonstocked	2.5	0		No																																											
52	6239 - Mixed Emergent Wetland	Nonstocked	16.0			No																																											
53	6233 - Wet Meadow	Nonstocked	4.6		Unspecified	No	Portion of the old farm field that is still mostly open. The northern part of the field has filled in with alder/willow and is part of the adjacent stand.																																										
54	6124 - Lowland Spruce-Fir	Poletimber Well	25.5	56	111-140	N/A	A stand of more productive spruce and tamarack that borders the upland stand.																																										
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55	6220 - Alder/willow	Nonstocked	21.4			No	Mostly lowland shrub with scattered conifer trees.																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
56	6224 - Treed Bog	Nonstocked	71.6			No	Spruce and tamarack bog.
57	6220 - Alder/willow	Nonstocked	4.0		Unspecified	No	
58	6220 - Alder/willow	Nonstocked	8.3		Unspecified	No	
59	6239 - Mixed Emergent Wetland	Nonstocked	2.1			No	Branch of the Waiska R. with lots of beaver ponds.
60	6220 - Alder/willow	Nonstocked	2.8	0	Unspecified	No	
61	6220 - Alder/willow	Nonstocked	14.9	0	Unspecified	No	Aspen is doing well. There is a trace of oak and elm in the stand.
62	6239 - Mixed Emergent Wetland	Nonstocked	0.9		Unspecified	No	Branch of the Waiska River runs through this stand. Areas of tag alder and wet meadow. Some spots are more well drained and resemble upland grasslands adjacent to the river.
63	6220 - Alder/willow	Nonstocked	1.3	0	Unspecified	No	
64	500 - Water	Nonstocked	1.4		Unspecified	No	Branch of the Waiska River runs through this stand. Areas of tag alder and wet meadow. Some spots are more well drained and resemble upland grasslands adjacent to the river.
65	500 - Water	Nonstocked	1.8		Unspecified	No	Branch of the Waiska River runs through this stand. Areas of tag alder and wet meadow. Some spots are more well drained and resemble upland grasslands adjacent to the river.
66	500 - Water	Nonstocked	2.3		Unspecified	No	Branch of the Waiska R. with lots of beaver ponds.
67	500 - Water	Nonstocked	1.8		Unspecified	No	Branch of the Waiska River runs through this stand. Areas of tag alder and wet meadow. Some spots are more well drained and resemble upland grasslands adjacent to the river.
68	6224 - Treed Bog	Nonstocked	4.5	0	Unspecified	No	
69	6224 - Treed Bog	Nonstocked	18.9		Unspecified	No	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
70	613 - Lowland Mixed Forest	Poletimber Medium	12.8	46	1-50	N/A	This stand has a patch of aspen in the east and west end of the stand with scattered conifer trees. The tag alder appears to be thick in this stand.