



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45036

Entry Year 2024

Acreage: 2,160

County Chippewa

Management Area: Rudyard Silty Lake Plain

Stand Examiner: Kenny Fanelli

Legal Description:

Pickford Township. T44N R01W Sections 15-22.

Identified Planning Goals:

Management during this year of entry will focus on harvesting much of the mature black spruce and other lowland cover types in the compartment. Many stands in need of treatment will be difficult to access which may lead to many going untreated.

Soil and topography:

This compartment is generally wet with rises in the Markey-Dawson mucks comprised of Pence-Kalkaska sand. A few of the areas within the compartment, especially in the East, consist of hills with a mixture of pine, spruce and balsam.

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

80 acres in section 14 that were previously state owned were sold during the last year of entry. The entire east half of the compartment is only accessible through private property, making management difficult and/or impossible. Except for the northwest boundary which compartment 39 this compartment is completely surrounded by private land.

Unique Natural Features:

This compartment contains an eagles nest.

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

None anticipated at this time.

Watershed and Fisheries Considerations:

This compartment is in within the Munuscong River watershed and contains portions of Sanderson Creek and Parker Creek. Parker Creek is a designated trout stream with Type 1 trout stream regulations downstream of this compartment (upstream designation ends in Section 14). Prescribed treatments are appropriate for the protection of these waterbodies.

Wildlife Habitat Considerations:

This compartment is located on the southern extent of the Kinross Bog Management Area where featured wildlife species include American bittern, black bear, beaver, and snowshoe hare. It is in the transition area between a sandy outwash plain to the north and clay lake plain to the south. It contains a mix of types ranging from bog to upland pine. Lowland stands currently contain a mix of species ranging from black spruce, tamarack, and jack pine to red maple and other lowland deciduous species. Aspen, spruce, pine, and maple are common in uplands. Past management activities have increased age class diversity across the compartment, particularly on the western side, and encouraged young growth that provides habitat for white-tailed deer, ruffed grouse, snowshoe hare, American woodcock, and others. Ponds and stream corridors as well as bog and marshy areas provide habitat for numerous wetland wildlife including beaver; a number of beaver ponds are scattered around the compartment. Wildlife objectives in this compartment will continue to focus on providing age class and structural diversity between forest stands, and maintaining the integrity of wetlands and waterbodies. Wetlands and waterbodies will be buffered when harvesting nearby to protect these areas. Rare species will be protected. Additional species benefitting from management include black bear, bobcat, and numerous neotropical migratory 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. Multiple active aggregate operations occur within three miles northeast of the compartment. Potential for sand & gravel development within the compartment appears limited, but there may be some potential on the uplands. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Access is limited in this compartment, especially in the east end. Pealine Road runs through the north west section of the compartment but becomes impassable when it runs into the swamp. All other trails in this area are dead ends at private gates. There is walk in access from M-48 at stand 60.

Survey Needs:

Nearly all the treatments in this compartment will require survey work. Priority should be placed on treatments in the west end of the compartment with those on the far east being the least priority.

Recreational Facilities and Opportunities:

Hunting and berry picking are the only recreational activities available here. There are no designated recreational trails.

Fire Protection:

There is very little fire risk in this compartment. There is some high and dry land containing jack and red pine along Pea Line Rd.

Additional Compartment Information:**The following reports from the Inventory are attached:**

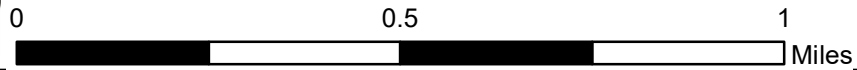
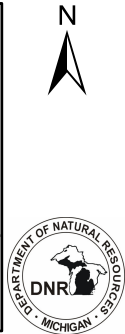
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

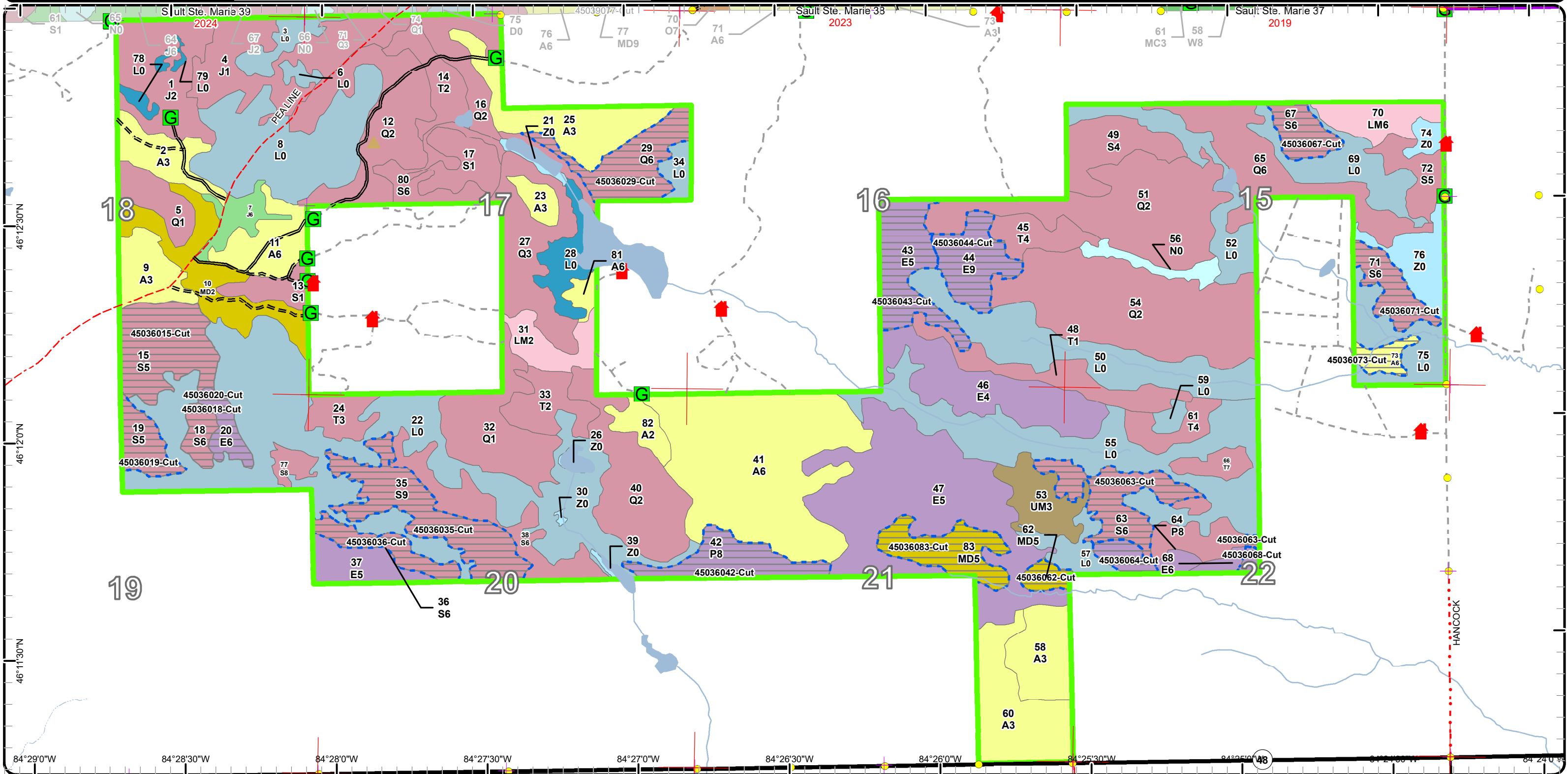
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 36
 T44N, R01E, Sec: 15-22
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Rudyard Silty Lake Plain
 YOE: 2024
 Acres: 2159.6 GIS Calculated
 Examiner: Kenny Fanelli
 Map Revised: 2/6/2023
 Map Phase: Post-Review

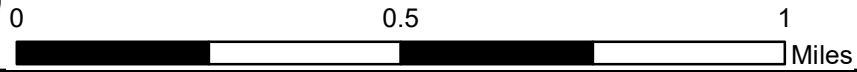


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🏠 Cabin
- 📍 Berms
- 🚪 Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🟩 Compartment Boundary
- 🟦 Treatments with Site Conditions
- 🟨 Clearcut (w/Reserves)
- 🟨 413 - Aspen
- 🟨 419 - Mixed Upland Deciduous
- 🟨 421 - Planted Pines
- 🟨 430 - Upland Mixed Forest
- 🟨 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

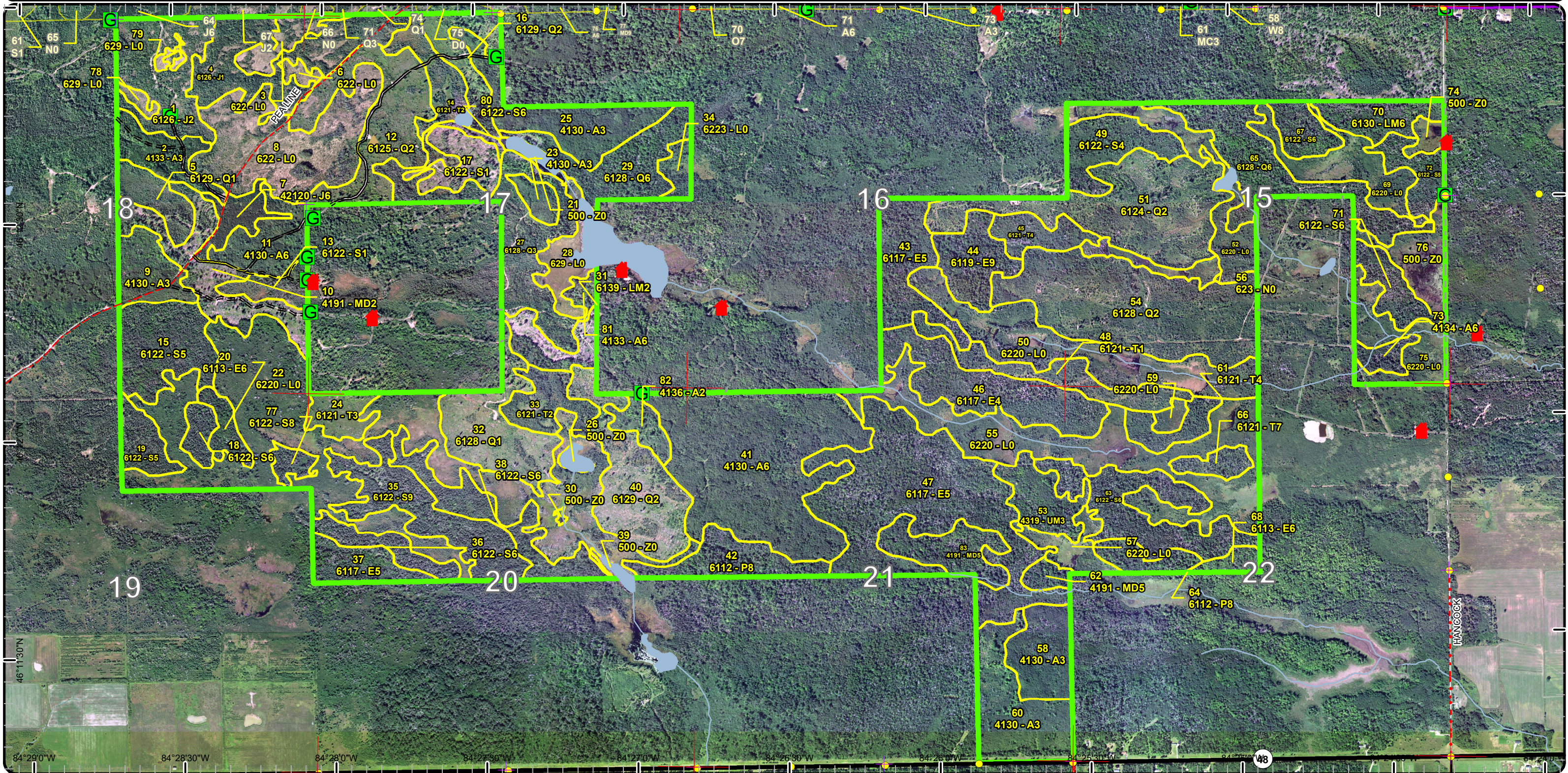


Stand Boundary Map

Compartment: 36
 T44N, R01E, Sec: 15-22
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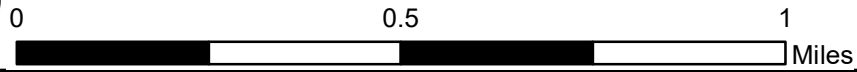
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- ▲ Berms
- G Gate
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
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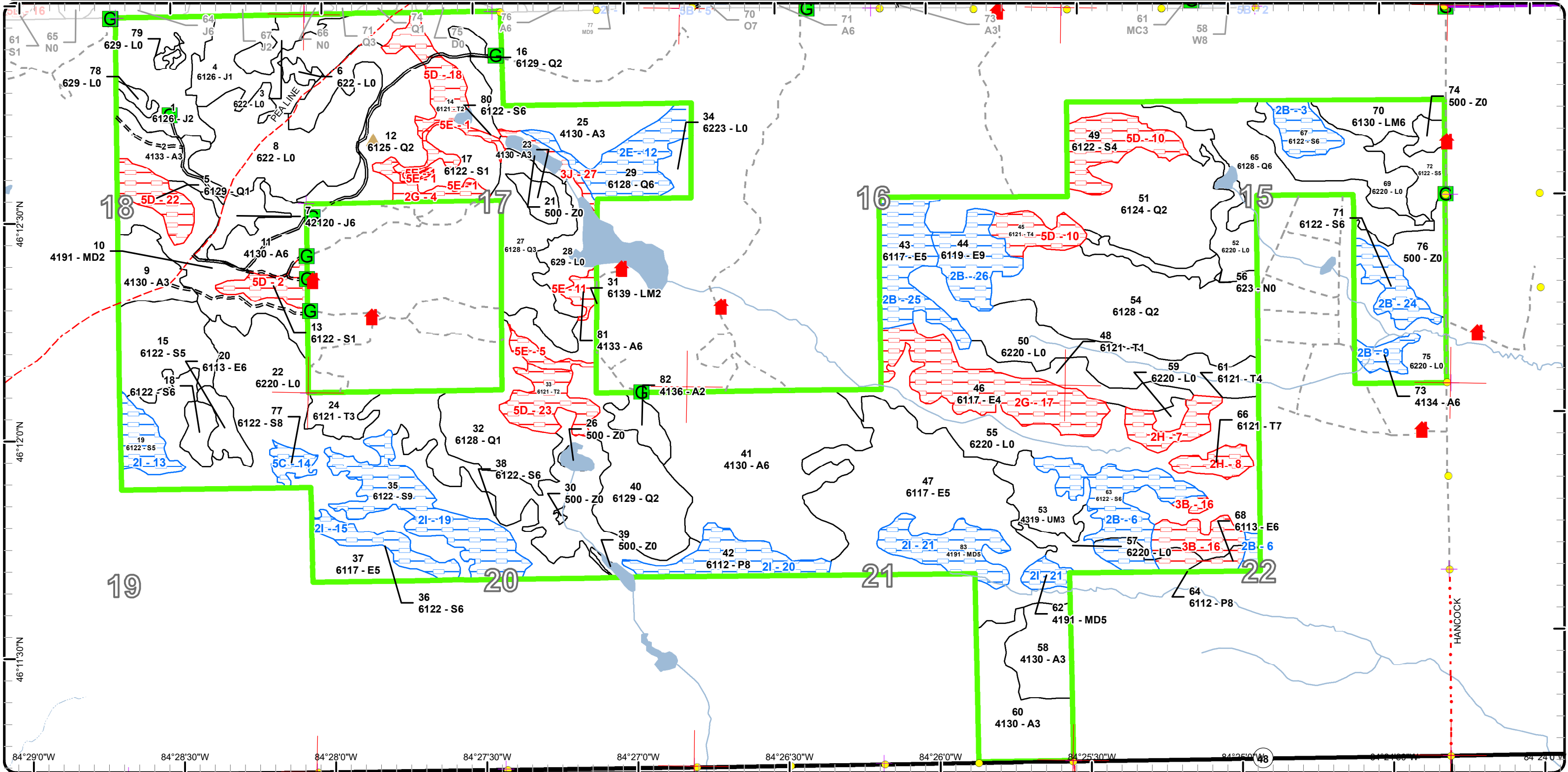
84°29'0"W 84°28'30"W 84°28'0"W 84°27'30"W 84°27'0"W 84°26'30"W 84°26'0"W 84°25'30"W 84°25'0"W

Special Conservation Areas

Compartment: 36
 T44N, R01E, Sec: 15-22
 County: Chippewa
 Unit: Sault Ste. Marie
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- ▲ Cabin
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- 2E: Road needed
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)



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	49	24	214	0	0	7	0	0	0	0	4	0	0	0	0	0	297
Jack Pine	0	0	0	38	11	46	0	0	0	0	0	0	0	0	0	0	0	0	95
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	33
Lowland Conifers	0	0	153	206	37	14	0	0	0	31	0	0	0	0	0	0	0	0	440
Lowland Deciduous	0	0	0	0	0	0	148	6	62	22	0	0	0	0	0	0	0	0	238
Lowland Mixed Forest	0	15	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Shrub	513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	512
Lowland Spruce/Fir	0	17	0	0	0	0	14	24	63	144	12	15	0	0	0	0	0	0	287
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	35	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	62
Tamarack	0	0	12	24	0	0	32	16	0	0	0	12	0	0	8	0	0	0	104
Upland Mixed Forest	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Water	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Total	552	67	214	292	282	77	221	53	125	230	12	27	4	0	8	0	0	0	2158



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 36
Total Compartment Acres: 2,160

Commercial Harvest - 51
Harvests with Site Condition - 265
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	7	0	0	0	0	0	0	0	0	7
Lowland Aspen/Balsam Poplar	29	0	0	0	0	0	0	0	0	29
Lowland Conifers	27	0	0	0	0	0	0	0	0	27
Lowland Deciduous	63	0	0	0	0	0	0	0	0	63
Lowland Spruce/Fir	163	0	0	0	0	0	0	0	0	163
Mixed Upland Deciduous	27	0	0	0	0	0	0	0	0	27
Total	316	0	0	0	0	0	0	0	0	316

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	316	0	0	0	0	0	0	0	0	316
Next Step	0	0	0	0	0	0	316	0	0	316
Total	316	0	0	0	0	0	316	0	0	632



Stand Name	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:

15	45036015-Cut	34.8	6122 - Black Spruce	Poletimber Medium	82	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Clear cut all trees 2" and greater at DBH. Retain 3-10% of the stand in interior patches. Winter harvest only due to wet ground conditions.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully to moderately stocked black spruce, balsam fir, aspen, birch, maple, tamarack, and white pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

18	45036018-Cut	7.3	6122 - Black Spruce	Poletimber Well	86	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
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Prescription Clear cut all species which are 2" or more at DBH. No retention is necessary due to size but leave mature trees along the red line.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to fully stocked black spruce with any mix of aspen, red maple, tamarack, birch, or pine.

Regen:

Other

Winter only for ground conditions.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

19	45036019-Cut	12.7	6122 - Black Spruce	Poletimber Medium	86		Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Clear cut all species 2" and greater at DBH. Retain 3-10% of the stand in patches. Winter harvest only due to wet ground conditions.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to fully stocked black spruce, balsam fir, white pine, red maple, birch, aspen, and tamarack.

Regen:

Other

Need south survey corner.

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023



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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
20 45036020-Cut	8.6	6113 - Lowland Maple	Poletimber Well	51	81-110	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut all trees which are 2" and up at DBH. No retention is needed due to size but leave a few birch trees and a couple wolfy red maples. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked red maple, birch, spruce, fir, tamarack, or aspen. <u>Regen:</u></p> <p><u>Other</u> Winter cut for ground conditions. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
29 45036029-Cut	27.1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	83	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Clear cut all species which are 2" and greater. Retain 3-10% of the stand in patches. Utilize proper BMPs along the ponds. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of spruce, fir, aspen, red maple, birch, and bam. <u>Regen:</u></p> <p><u>Other</u> Access is difficult and will require a road be built. Access may also be through unknown private property. <u>Comment:</u></p> <p><u>Site Condition</u> Road Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
35 45036035-Cut	40.8	6122 - Black Spruce	Sawtimber Well	87	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clear cut all trees 2" and greater at DBH. Retain 3-10% of the stand in interior patches. Winter harvest only due to wet ground conditions. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked black spruce, tamarack, birch, maple, white pine, and aspen. <u>Regen:</u></p> <p><u>Other</u> Final sale acreage may vary from original prescription due to ground conditions and lack of volume. <u>Comment:</u> Need a survey for the south line or place retention along property line.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</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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36	45036036-Cut	13.0	6122 - Black Spruce	Poletimber Well	73	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Clear cut all trees 2" and greater at DBH. Retain 3-10% of the stand in interior patches. Winter harvest only due to wet ground conditions.
Specs:

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

Acceptable Regen: Moderate to fully stocked spruce, tamarack, fir, birch, red maple, aspen, and white pine.

Other Comment: Final acreage may vary from the original prescription due to wet ground conditions and the possibility of extra acres along the south line.
Survey the west and south boundary or place retention near along the property line.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023

42	45036042-Cut	22.8	6112 - Lowland Aspen	Sawtimber Medium	81	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
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Prescription Clearcut all species which are 2" and up. Retain the wet parts of the stand. Access will be by freezing a road through stand 47 or through private property.
Specs:

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

Acceptable Regen: Any mix of aspen, red maple, spruce, fir, tamarack, birch, and balsam poplar.

Other Comment: Winter harvest for wet ground conditions. Some portions may be operable during dry conditions.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023

43	45036043-Cut	29.9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	53	Unspecified	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
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Prescription Clear cut all species which are 2" and up at DBH. Leave 3-10% retention in pockets focused on wetter areas. Final acreage may vary from original prescription due to wet ground and lack of volume.
Specs:

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

Acceptable Regen: Any mix of balsam poplar, aspen, red maple, birch, spruce, fir, and tamarack.

Other Comment: Currently there is no known access to this stand. The stand will only be treated if access can be figured out.

Site Condition Unknown Access

Proposed Start Date: 10/1 /2023



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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
44 45036044-Cut	22.4	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	83	Unspecified	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Clear cut all species which are two inches and up at DBH. Leave 3-10% retention in patches.</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> Any mix of birch, red maple, aspen, spruce, fir, and BAM.</p> <p><u>Regen:</u></p> <p><u>Other</u> Access is unknown at this time. The stand will only be treated if access can be figured out.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
62 45036062-Cut	5.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	54	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut all species which are 2" and up at DBH. Retain 3-10% of the stand in pockets. Use proper BMPs along Sanderson Creek. Winter cut only because of wet ground conditions. Reach into adjacent stand with the red line wherever good ground and mature timber exists. Final acreage will likely vary from original prescription.</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> Any mix of aspen, red maple, balsam poplar, balsam fir, tamarack, and birch.</p> <p><u>Regen:</u></p> <p><u>Other</u> Access will either be from the south which will require a stream crossing. Or from the west via stand 41 or 42 through private property.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
63 45036063-Cut	27.8	6122 - Black Spruce	Poletimber Well	85	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clear cut all species which are 2" and up at DBH. Retain 3-10% of the stand in patches. Follow all TnE guidelines and restrictions.</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> Any mix of spruce, fir, aspen, red maple, birch, tamarack , and BAM.</p> <p><u>Regen:</u></p> <p><u>Other</u> Access is unknown through private at this time. Access could possibly be from Hancock road but a road would also need to be built.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
64 45036064-Cut	6.5	6112 - Lowland Aspen	Sawtimber Medium	89	Unspecified	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut all species which are two inches and up at DBH. Follow all TnE guidelines and restrictions. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any mix of aspen, birch, red maple, spruce, and fir. <u>Regen:</u> <u>Other</u> Access is unknown at this time. It would likely be from Hancock road and require a road be built through private property. <u>Comment:</u> Retention will be from TnE BMPs <u>Site Condition</u> Unknown Access <u>Proposed Start Date:</u> 10/1 /2023</p>										
67 45036067-Cut	12.0	6122 - Black Spruce Poletimber Well		95	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clear cut all species which are 2" and up. Retain 3-10% of the stand in pockets. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any mix of spruce, fir, tamarack, aspen, red maple, and birch. <u>Regen:</u> <u>Other</u> Access is unknown at this time. <u>Comment:</u> <u>Site Condition</u> Unknown Access <u>Proposed Start Date:</u> 10/1 /2023</p>										
68 45036068-Cut	2.0	6113 - Lowland Maple	Poletimber Well	61	51-80	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Clear cut all species which are 2" and up at DBH. Follow all TnE guidelines and restrictions. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any mix of red maple, aspen, birch, spruce, and fir. <u>Regen:</u> <u>Other</u> Access is unknown at this time. It would likely be from Hancock road and require a road be built through private property. <u>Comment:</u> Retention will be from TnE BMPs <u>Site Condition</u> Unknown Access <u>Proposed Start Date:</u> 10/1 /2023</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
71 45036071-Cut	14.3	6122 - Black Spruce	Poletimber Well	63	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clear cut all species which are 2" and up at DBH. Retain 3-10% of the stand in pockets. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any mix of spruce, fir, tamarack, aspen, red maple, and birch. <u>Regen:</u> <u>Other</u> Access is unknown at this time. <u>Comment:</u> <u>Site Condition</u> Unknown Access <u>Proposed Start Date:</u> 10/1 /2023</p>										
73 45036073-Cut	6.5	4134 - Aspen, Spruce/Fir	Poletimber Well	67	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut all species which are 2" and up at DBH. No retention due to size. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any mix of aspen, spruce, fir, red maple, and birch. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Unknown Access <u>Proposed Start Date:</u> 10/1 /2023</p>										
83 45036083-Cut	22.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	54	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut all species which are 2" and up at DBH. Retain 3-10% of the stand in pockets. Use proper BMPs along Sanderson Creek. Winter cut only because of wet ground conditions. Reach into adjacent stand with the red line wherever good ground and mature timber exists. Final acreage will likely vary from original prescription. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any mix of aspen, red maple, balsam poplar, balsam fir, tamarack, and birch. <u>Regen:</u> <u>Other</u> Access will either be from the south which will require a stream crossing. Or from the west via stand 41 or 42 through private property. <u>Comment:</u> <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 315.9

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 36

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions										
		With Condition				2B	2E	2I	5C	2G	2H	3B	3J	5D	5E	
297	286	6		4	Aspen	6										4
95	95	0		0	Jack Pine											
33	0	29		4	Lowland Aspen/Balsam Poplar	6		23				4				
441	395	27		19	Lowland Conifers		27						4	14		
237	134	54		49	Lowland Deciduous	54				46		3				
32	27	0		5	Lowland Mixed Forest											5
511	511	0		0	Lowland Shrub					0						0
289	100	126		62	Lowland Spruce/Fir	54		67	6	9		14		33	6	
8	8	0		0	Marsh											
63	35	27		0	Mixed Upland Deciduous			27						0		
103	37	0		66	Tamarack					19				47		
19	19	0		0	Upland Mixed Forest											
31	31	0		0	Water											
2,158	1,679	271		209	Total Forested Acres	122	27	117	6	55	19	22	4	94	15	
	78%	13%		10%	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	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5D: Unproductive Forest Land	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Bog like stand with a high water table. Trees are very small diameter.							

Report 4 – Site Conditions

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3	Available	2B: Unknown if access through adjacent landowner(s) is possible	12	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Adjusted my treatment boundary to exclude this area. Stagnant, small diameter timber with very wet ground.							
5	Unavailable	5E: Long-Term Retention	5	4A: No Markets Available for these Forest Products	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Adjusted my treatment boundary to exclude this area. Tag alder, wet ground.							
6	Available	2B: Unknown if access through adjacent landowner(s) is possible	36	2E: Road needed	2I: Survey needed	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: Stand consists of a poor quality tamarack island surrounded by L type. Tamarack is poor quality due to a high water table. Access into this stand would be terrible due to L type and numerous drainages.							

Report 4 – Site Conditions

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8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: Stand consists of a poor quality tamarack island surrounded by an L type. Stand is poor quality due to a high water table. Access into this stand would be terrible due to numerous drainages through the L type.							
9	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small acreage and unsure if landowner would allow us to use his road for a timber sale.							
10	Unavailable	5D: Unproductive Forest Land	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Area serves as a good buffer around wetland. Also, stand consists of mature red pine and is a good buffer between the timber sale and private cabin.							
12	Available	2E: Road needed	27	2B: Unknown if access through adjacent landowner(s) is possible	2I: Survey needed	Unspecified	Unspecified
Comments:							
13	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3B: Threatened, endangered, and special concern species	22	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5D: Unproductive Forest Land	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	2I: Survey needed	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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20	Available	2I: Survey needed	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	2I: Survey needed	27	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5D: Unproductive Forest Land	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5D: Unproductive Forest Land	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	2B: Unknown if access through adjacent landowner(s) is possible	14	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	2B: Unknown if access through adjacent landowner(s) is possible	30	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Access is unknown and likely difficult.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Kenny Fanelli : Examiner

Compartment: 36

Year of Entry: 2024

26	Available	2B: Unknown if access through adjacent landowner(s) is possible	22	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Access is unknown and likely difficult.</p>							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	6126 - Lowland Jack Pine	Sapling Medium	38.1	26	Immature	N/A	A lot of non-forested marsh areas within the stand. jack pine and black spruce is filling in, regen looks good. A couple large white pine and red pine scattered within the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		68	Sapling	3	27	Black Spruce	Medium	Variable	Sapling
Paper Birch		2	Sapling	2		Jack Pine	Medium	Variable	Sapling
White Pine		2	Sapling	2		White Pine	Low	Variable	Sapling
Tamarack		2	Sapling	2					
Black Spruce		26	Sapling	2					
2	4133 - Aspen, Mixed Pine	Sapling Well	18.3	38	1-50	N/A	Mixed stand of mostly aspen with paper birch, red maple, white pine, jack pine, red pine, and spruce. Aspen is barely reaching merchantability. A high ridge runs through the middle along the road and slopes down into wetter ground. There is mature red pine and white pine along the southern edge. Stand was cut between 1985 and 1987. Sale # 45-028-85		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		15	Sapling	4		Red Maple	Medium	Variable	Sapling
White Pine		5	Sapling	4		Black Spruce	Low	Variable	Sapling
Red Pine		2	Sapling	4		Red Pine	Low	5 - 10 feet	Sapling
Jack Pine		10	Sapling	4		Jack Pine	Low	Variable	Sapling
Black Spruce		15	Sapling	3					
Red Pine		8	Log	14	106				
Red Maple		5	Sapling	4					
Bigtooth Aspen		40	Pole/Sapling	5	38				
3	622 - Lowland Shrub	Nonstocked	10.3			No			
4	6126 - Lowland Jack Pine	Sapling Poor	46.1	47	1-50	N/A	Jack pine is dense in spots and scattered in others. Slow growing because of wet ground.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		15	Sapling	3		White Pine	Low	Variable	Sapling
Black Spruce		20	Sapling	2	47	Jack Pine	High	Variable	Sapling
Jack Pine		65	Sapling	4	47	Tamarack	Low	Variable	Sapling
						Black Spruce	Medium	Variable	Sapling
5	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	14.2	40	1-50	N/A	Low quality spruce, white pine, and tamarack in a boggy swamp. Trees are stunted. There is a small, Upland ridge on the east end of the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		35	Sapling	3	41	Black Spruce	Low	Variable	Sapling
Tamarack		30	Sapling	3		Tamarack	Low	Variable	Sapling
White Pine		35	Sapling	3		White Pine	Low	Variable	Sapling
6	622 - Lowland Shrub	Nonstocked	3.1			No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
7	42120 - Planted Jack Pine	Poletimber Well	10.8	37	51-80	N/A	Old notes indicate this is a plantation but there is no evidence of planted rows. The pine are reaching pole size and the stand is self thinning. Might be able to cut in 10-15 years. Cut between 1985 and 1987. Sale # 45-028-85 Nice jack pine plantation. It's hard to tell if it's natural or planted?																																																	
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8	622 - Lowland Shrub	Nonstocked	64.4		Immature	No	Mostly non-forested with small islands of either jack pine or red pine. Some islands have mature timber but they are too small to delineate.																																																	
9	4130 - Aspen	Sapling Well	18.6	33	Immature	N/A	Nice aspen. Not quite a pole stand yet. Stand was cut between 1985 and 1987. Sale # 45-028-85																																																	
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10	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	35.2	9	Immature	N/A	Red maple is the primary regen in the stand right now. The aspen seems to be lagging behind the maple. There are scattered open areas with little regen and areas with a decent amount. There was quite a bit of white pine left in the overstory which does appear to be impacting the amount of regeneration in the stand. This stand was cut in October of 2014 as part of Lonely Goose Mix. This stand shape includes uncut areas along the edges that were left for retention. White pine, red pine, hemlock, cedar, yellow birch and oak were left during the harvest.																																																	
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11	4130 - Aspen	Poletimber Well	21.5	37	1-50	N/A	Aspen is just reaching pole size with many still under 5". 30' tall Stand cut between 1985 and 1987. Sale # 45-028-85																																																	
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12	6125 - Lowland Black Spruce, Jack Pine	Sapling Medium	48.6	17	Immature	N/A	Stand has filled in more since last entry. Mostly jack pine and black spruce with white pine, tamarack, and a few red maple. Stand was cut in 2006.																																																	
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White Pine	15	Sapling	3																																																					
Black Spruce	35	Sapling	2																																																					
Jack Pine	39	Sapling	3	17																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																					
Tamarack	Low	< 5 feet	Sapling																																																					
Black Spruce	Medium	< 5 feet	Sapling																																																					
White Pine	Low	< 5 feet	Sapling																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	6122 - Black Spruce	Sapling Poor	10.0	61	1-50	N/A	Low quality, old black spruce. Not much potential here
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		70	Sapling/Pole	4	62	Black Spruce	
Tamarack		25	Sapling	3		Tamarack	
White Pine		5	Pole/Sapling	5		Density	
						Avg. Height	
						Size	
14	6121 - Tamarack	Sapling Medium	16.4	62	1-50	N/A	Stand of stagnant black spruce and tamarack, small diameter trees, high water table.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		50	Sapling	4		Michigan Holly	
Black Spruce		50	Sapling	4	62	Tag Alder	
						Tamarack	
						Black Spruce	
						Density	
						Avg. Height	
						Size	
15	6122 - Black Spruce	Poletimber Medium	34.8	82	51-80	N/A	Decent black spruce stand with some falling out, creating openings throughout the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		10	Pole	7		Balsam Fir	
Black Spruce		80	Pole	7	82	Black Spruce	
White Pine		2	Log	14		Density	
Paper Birch		6	Pole/Log	8		Avg. Height	
Red Maple		2	Log/Pole	12		Size	
16	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	19.5	17	Immature	N/A	Stand is filling in nicely with a mix of black spruce and tamarack.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Sapling	2		Density	
Black Spruce		42	Sapling	2		Avg. Height	
Tamarack		43	Sapling	2	17	Size	
Jack Pine		5	Sapling	2			
17	6122 - Black Spruce	Sapling Poor	16.5	8	Immature	N/A	Stand is slowly filling in with spruce, white pine, and tamarack. There are a few spots with dense mature white pine that was left during the recent harvest. This stand was cut in August of 2015 as part of Lonely Goose Mix. All red and white pine, hemlock, oak, yellow birch and cedar were left during the harvest.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		68	Sapling	1	8	Density	
White Pine		10	Sapling	1		Avg. Height	
Tamarack		15	Sapling	1		Size	
White Pine		2	Log	15			
Red Maple		5	Sapling	1			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
18	6122 - Black Spruce	Poletimber Well	7.3	86	51-80	N/A	Black spruce. Lots of broken tops.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	8		Balsam Fir	Low	Variable	Sapling
Paper Birch		3	Pole	8		Tag Alder	Low	Variable	Tall Shrub
Tamarack		10	Log/Pole	10		Tamarack	Low	Variable	Sapling
Black Spruce		77	Pole	8	86	Black Spruce	Medium	Variable	Sapling
19	6122 - Black Spruce	Poletimber Medium	12.7	86		N/A	Diameters are a bit smaller in this stand and it looks like some of the larger spruce are declining.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole	8		Balsam Fir	Low	Variable	Sapling
Balsam Fir		5	Pole	8		Tamarack	Low	Variable	Sapling
Black Spruce		80	Pole	6	86	Tag Alder	Low	Variable	Tall Shrub
Tamarack		5	Pole	8		Black Spruce	Low	Variable	Sapling
White Pine		5	Log	16					
20	6113 - Lowland Maple	Poletimber Well	8.6	51	81-110	N/A	Stand is low quality red maple with birch, spruce, and tamarack.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		70	Pole	8	51	Red Maple	Low	Variable	Sapling
Black Spruce		10	Pole	9		Tag Alder	Low	Variable	Tall Shrub
Paper Birch		10	Pole	8		Black Spruce	Medium	Variable	Sapling
Tamarack		10	Log	12					
21	500 - Water	Nonstocked	4.4			No	Small stream with an active beaver pond on it.		
22	6220 - Alder/willow	Nonstocked	170.0		Immature	No	Widely scattered tag alder, tamarack, spruce, and white pine.		
23	4130 - Aspen	Sapling Well	6.5	31	Immature	N/A	Low quality aspen. This stand has a lot of ice damaged trees in it. Broken tops and spindly, rough looking trees. Probably stunted. The stand should be cut as soon as it is merchantable. Cut in 1992.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		80	Sapling	3	31	Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen		10	Sapling	3		Red Maple	Medium	Variable	Sapling
Black Spruce		5	Sapling/Pole	4		White Pine	Low	Variable	Sapling
Red Maple		5	Sapling	3					
24	6121 - Tamarack	Sapling Well	11.6	17	Immature	N/A	Regen is looking very good. It took awhile to establish but is now dense and 10-15' high. Mostly tamarack mixed with spruce and red maple and aspen on the higher ground. Stand was cut in 2006.		
Canopy Species		% Cover	Size Class	DBH	Age				
Tamarack		65	Sapling	2	17				
Quaking Aspen		10	Sapling	2					
Black Spruce		15	Sapling	2					
Red Maple		10	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
25	4130 - Aspen	Sapling Well	34.8	35	51-80	N/A	Nice stand of young aspen regeneration.																																																	
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26	500 - Water	Nonstocked	2.1		Immature	No	Widely scattered tag alder, tamarack, spruce, and white pine.																																																	
27	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	37.4	31	Immature	N/A	Stand of black spruce and aspen. The aspen in this stand also looks damaged and low in quality. Stand was cut in 1992.																																																	
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28	629 - Mixed non-forested wetland	Nonstocked	17.7			No																																																		
29	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	31.4	83	51-80	N/A	2024 Comment: Looks like budworm is in this stand. Many defoliated or partially defoliated trees. Red maple dominants parts of the stand. In other areas its just dense balsam fir. The balsam isn't large but is old. 2014 Comment: Very poor quality stand of mostly balsam fir regeneration with a few scattered red maple, balsam fir and black spruce here and there. Red maple is multi-aged. Balsam fir regeneration appears to be on it's way out due to budworm defoliation.																																																	
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31	6139 - Mixed Lowland Forest	Sapling Medium	15.2	8	Immature	N/A	Good aspen regen on the upland parts of the stand with regeneration struggling to take hold in the lower areas. Stand was cut in August 2015 as part of Lonely Goose Mix. The Sothern portion of the stand was left as retention.																																																	
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32	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	37.8	17	Immature	N/A	2024 Notes: Regeneration is coming in throughout. Took awhile in this stand due to wet ground. There is a good mix of species. Aspen is going on some of the hills. 2014 Notes: Cut in 2006 but has not regenerated very well as of yet. The low pockets within the stand have filled in with tamarack and a few black spruce. The higher portions of the stand have not regenerated but were seeded with pine in 2013.																																																						
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33	6121 - Tamarack	Sapling Medium	17.5	56	1-50	N/A	Stand has a very high water table and is bog like. Trees are small diameter due to water table.																																																						
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34	6223 - Inundated Shrub Swamp	Nonstocked	6.6		Unspecified	No																																																							
35	6122 - Black Spruce	Sawtimber Well	40.8	87	81-110	N/A	Black spruce stand that is ready for treatment. Lots of broken tops and some blow down. Canopy closure is probably right around 75%.																																																						
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36	6122 - Black Spruce	Poletimber Well	13.0	73	81-110	N/A	Black spruce ridge. As with most stands in this area, many of the trees are ice damaged.																																																						
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37	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	16.1	75	1-50	N/A	Stand has a ridge along the north end bit slopes down into lowland. Beyond the ridge the stand is very low quality and there isn't much for timber.																																																						
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38	6122 - Black Spruce	Poletimber Well	27.3	70	51-80	N/A	2024 Notes: Marginal spruce stand with wet ground. 2014 Notes: Stand of small diameter black spruce, tamarack and white pine of small diameter due to a high water table.																																																															
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39	500 - Water	Nonstocked	1.5		Immature	No	Widely scattered tag alder, tamarack, spruce, and white pine.																																																															
40	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	46.4	17	Immature	N/A	Cut in 2006. Black spruce, quaking aspen, tamarack, balsam fir and a few white pine. A couple 24" white pine within the stand as well..																																																															
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41	4130 - Aspen	Poletimber Well	114.4	32	51-80	N/A	Aspen looks good. Probably just barely moving into the pole class.																																																															
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42	6112 - Lowland Aspen	Sawtimber Medium	22.8	81	51-80	N/A	This stand is low with bam, small aspen and dead ash. Some high and dry spots have large mature aspen with balsam fir. Very low volume in some spots.																																																															
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43	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	29.9	53	Unspecified	N/A	Low ground with a mix of conifer and deciduous. Tag alder is thick underneath.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	22.4	83	Unspecified	N/A	Stand was left from previous cut. Old white birch with a mix of conifer and deciduous remains. White birch is dense in spots, pretty unique.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log	10		Quaking Aspen	Low	Variable	Sapling
Quaking Aspen	7	Log	16		Red Maple	Low	Variable	Sapling
Paper Birch	43	Log	14	83	Tag Alder	Medium	Variable	Tall Shrub
White Spruce	10	Log	10	83	Balsam Fir	Full	Variable	Sapling
Balsam Poplar	25	Pole	8					
Balsam Fir	5	Pole	8					

45	6121 - Tamarack	Poletimber Poor	13.6	55	Unspecified	N/A	Lowland type with scattered pole sized tamarack. Tag alder is thick underneath. Stand could almost be non-forest.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	75	Pole	8	55	Tamarack	Medium	Variable	Sapling
Balsam Fir	25	Sapling	2		Tag Alder	Full	Variable	Tall Shrub
					Balsam Fir	Low	Variable	Sapling

46	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	45.7	79	Unspecified	N/A	Poorly stocked stand with a thick tag understory. Stand is very wet. Do not manage!
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Log	10	79	Tamarack	Low	Variable	Sapling
Black Spruce	10	Pole	8		Black Ash	High	Variable	Sapling
Tamarack	5	Pole	7		Tag Alder	Full	Variable	Tall Shrub
Paper Birch	30	Pole	8		Black Spruce	Low	Variable	Sapling
Black Ash	50	Pole/Sapling	6	79	Balsam Fir	Low	Variable	Sapling

47	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	109.1	54	51-80	N/A	Stand is a complex if low swales containing poor aspen, bam, dead ash, and tamarack along with upland hills containing aspen, red maple, and balsam fir. Some of these hills can be treated.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sap/Log	9	54	Black Spruce	Low	Variable	Sapling
Quaking Aspen	20	Pole/Sap/Log	8		Tamarack	Low	Variable	Sapling
Balsam Poplar	10	Pole/Sap/Log	8		Tag Alder	Medium	Variable	Tall Shrub
Balsam Fir	15	Pole/Sapling	6	54	Balsam Fir	Full	Variable	Sapling
Tamarack	12	Pole	8		Black Ash	Medium	Variable	Sapling
Black Ash	15	Pole/Sapling	6					
Black Spruce	8	Pole/Sapling	5					

48	6121 - Tamarack	Sapling Poor	24.2	24	Immature	N/A	Stand was cut in 1999. A mix of spruce/fir and tamarack regeneration.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	3	Log	15	
Black Spruce	20	Sapling	1	
Balsam Fir	25	Sapling	1	
Tamarack	52	Sapling	1	24



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
49	6122 - Black Spruce	Poletimber Poor	23.3	75	Unspecified	N/A	A couple of patches of timber surrounded by lowland type. Thick tag alder and balsam fir in the lowland type. Impressive east/west ridge in the southwest corner of stand. A lot of budworm damage on sapling balsam fir within the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		40	Pole	7		Balsam Fir		Medium	Variable	Sapling
Black Spruce		60	Pole	6	75	Black Spruce		Medium	Variable	Sapling
						Michigan Holly		Low	Variable	Tall Shrub
						Red Maple		Low	Variable	Sapling
						Paper Birch		Low	Variable	Sapling
						Tag Alder		Full	Variable	Tall Shrub
50	6220 - Alder/willow	Nonstocked	56.7		Unspecified	No				
51	6124 - Lowland Spruce-Fir	Sapling Medium	72.2	22	Immature	N/A	Stand was cut in 2001. Great lowland regeneration for an 11 yr old stand. A mix of balsam fir, black spruce, tamarack and aspen. Areas of tag alder exist, too small to delineate. A few scattered white pine and red pine saplings within the stand as well.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		2	Sapling	1		Tag Alder		Low	Variable	Tall Shrub
Quaking Aspen		11	Sapling	1						
Black Spruce		40	Sapling	1	22					
Red Maple		3	Sapling	1						
Balsam Fir		27	Sapling	1	22					
Tamarack		17	Sapling	2						
52	6220 - Alder/willow	Nonstocked	27.1		Unspecified	No				
53	4319 - Mixed Upland Forest	Sapling Well	19.5	37	1-50	N/A	Stand was cut in 1986 and has regenerated back to a balsam fir, red maple, aspen mix. Balsam fir is in very poor condition due to budworm. Balsam fir is thick with a few large red maple and aspen within the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		20	Sapling	3		Balsam Fir		Full	Variable	Sapling
Balsam Fir		50	Sapling	3	37					
54	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	90.5	23	Immature	N/A	Stand was cut in 2000. Stand is a mix of black spruce, tag alder, tamarack, balsam fir, aspen. Stand is filling in well.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		45	Sapling	1	23	Black Spruce		Medium	Variable	Sapling
Quaking Aspen		20	Sapling	1		Tamarack		Medium	Variable	Sapling
Paper Birch		5	Sapling	1		Tag Alder		Medium	Variable	Tall Shrub
Black Spruce		30	Sapling	1		Quaking Aspen	Low	Variable	Sapling	
55	6220 - Alder/willow	Nonstocked	85.6		Unspecified	No				
56	623 - Emergent Wetland	Nonstocked	8.0		Unspecified	No				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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57 6220 - Alder/willow Nonstocked 12.0 Unspecified No

58 4130 - Aspen Sapling Well 23.6 26 Immature N/A Very nice aspen regeneration, well stocked. Trees are 25-30' tall.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Red Maple	5	Sapling	3		Hazelnut (Spp.)	Low	Variable	Tall Shrub
Quaking Aspen	85	Sapling/Pole	4	26				

59 6220 - Alder/willow Nonstocked 3.5 Unspecified No

60 4130 - Aspen Sapling Well 39.6 19 Immature N/A Regeneration looks good, well stocked. Large red maple scattered within the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	12		White Spruce	Low	Variable	Sapling
Quaking Aspen	90	Sapling	3	19	Balsam Fir	Low	Variable	Sapling
					Quaking Aspen	Medium	Variable	Sapling

61 6121 - Tamarack Poletimber Poor 11.6 106 Unspecified N/A Stand of tamarack of different ages. Poor quality stand with a lot of dead standing tamarack. Small tamarack regeneration underneath however. Do not cut due to wet, wet access.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole/Sapling	6		Tag Alder	Full	Variable	Tall Shrub
Tamarack	95	Pole	8	106	Michigan Holly	High	Variable	Tall Shrub
					Tamarack	Low	Variable	Sapling

62 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 5.2 54 51-80 N/A This is an upland hill/ridge within stand 47. Sanderson creek begins along the south boundary and flows east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole/Sap/Log	8		Black Ash	Medium	Variable	Sapling
Balsam Poplar	10	Pole/Sap/Log	8		Tag Alder	Medium	Variable	Tall Shrub
Balsam Fir	15	Pole/Sapling	6	54	Balsam Fir	Full	Variable	Sapling
Tamarack	12	Pole	8		Black Spruce	Low	Variable	Sapling
Red Maple	33	Pole/Sap/Log	9	54	Tamarack	Low	Variable	Sapling

63 6122 - Black Spruce Poletimber Well 42.4 85 Unspecified N/A Nice stand of black spruce, mixed with a little red maple and quaking aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	6		Black Spruce	Medium	Variable	Sapling
Quaking Aspen	3	Pole/Log	10		Balsam Fir	Medium	Variable	Sapling
Black Spruce	93	Pole	10	85				
Red Maple	2	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
64	6112 - Lowland Aspen	Sawtimber Medium	10.1	89	Unspecified	N/A	Stand with low stocking, scattered large aspen and red maple. Tag alder is thick in some areas. Southeast corner of stand is higher ground and is fully stocked with red maple and aspen.																																														
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65	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	42.6	26	51-80	N/A	2024 Notes: Black spruce and balsam fir. Some red and white pine scattered throughout. No real access to the stand at this time. The balsam shows signs of budworm damage. 2014 Notes: Stand was highgraded years ago. Small pockets of mature black spruce and tamarack exist amongst thick regeneration of balsam fir and tag alder. A few supercanopy red pine and white pine exist within the stand. Balsam fir understory hit hard by budworm. Cutting the stand would do more harm than good with the amount of regeneration. Let regeneration become the mature stand. I chose the regeneration as the featured stand due to the minimal amount of merchantable timber.																																														
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66	6121 - Tamarack	Sawtimber Poor	7.8	136	Unspecified	N/A	Poor quality stand of old tamarack. A lot of stems are dead standing. Water table is high with a thick understory of tag alder.																																														
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67	6122 - Black Spruce	Poletimber Well	12.0	95	51-80	N/A	2024 Notes: Old black spruce. The private property to the north has been cut already. No access here. 2014 Notes: Island of black spruce with large white pine scattered within it. Black spruce is old and could be cut. Private land to the North is suppose to be cut soon. Put this stand on LF and set it up when private land is being harvested.																																														
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68	6113 - Lowland Maple	Poletimber Well	5.5	61	51-80	N/A																																															
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69	6220 - Alder/willow	Nonstocked	26.4			No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
70	6130 - Fir, Aspen, Maple	Poletimber Well	16.5	41	51-80	N/A	2024 Note: The over story is mostly red maple with fir, spruce, aspen, and some large white and red pine. The upland ridge on the north line contains a small grove of mature red pine. Less than 2 acres. 2014 Note: Stand looks to have been cut 25+ years ago but nothing shows on old inventory notes. Stand contains a mix of about everything and has a very thick balsam understory.																																																										
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71	6122 - Black Spruce	Poletimber Well	14.3	63	Unspecified	N/A	Decent stand of young black spruce. A few remnant old stumps from a former cut exist. Thick balsam fir understory exist.																																																										
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72	6122 - Black Spruce	Poletimber Medium	13.8	58	Unspecified	N/A	Low quality stand of spruce and birch. Some maple and tamarack. Evidence of budworm damage in the understory balsam fir																																																										
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73	4134 - Aspen, Spruce/Fir	Poletimber Well	6.5	67	Unspecified	N/A	Stand of old aspen with a thick balsam fir understory. Balsam fir is being defoliated from budworm. Access must be through the private landowner to the South.																																																										
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74	500 - Water	Nonstocked	4.6			No																																																											
75	6220 - Alder/willow	Nonstocked	24.2		Unspecified	No																																																											
76	500 - Water	Nonstocked	18.4			No																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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77 6122 - Black Spruce Sawtimber Medium 5.6 86 N/A Estimate based on stand 35.

78 629 - Mixed non-forested wetland Nonstocked 2.7 0 No Non forested marsh within the larger jack pine stand. Some scattered jack pine within the marsh.

79 629 - Mixed non-forested wetland Nonstocked 1.9 0 No Non forested marsh within the larger jack pine stand. Some scattered jack pine within the marsh.

80 6122 - Black Spruce Poletimber Well 14.8 100 51-80 N/A Stand was not cut when the stand to the north was cut. Not much here. Low quality spruce. This is a stand of mostly black spruce with some pine and fir mixed in. This portion of the original stand was too wet and to small to harvest. It now serves as retention.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Sapling	6		Black Spruce	Low	Variable	Sapling
Black Spruce	75	Pole/Sapling	6	101	Balsam Fir	Low	< 5 feet	Sapling
Jack Pine	5	Pole	9					
White Pine	10	Log	12					
Bigtooth Aspen	5	Log	12					

81 4133 - Aspen, Mixed Pine Poletimber Well 4.2 116 141-170 N/A Stand is old and declining. Old notes indicate it was left as retention for the clearcut to the south, the wetland, and a private cabin.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Pole	6	
Red Pine	20	Log	10	
Red Maple	10	Log/Pole	10	
Quaking Aspen	65	Pole/Log	8	116

82 4136 - Aspen, Mixed Conifer Sapling Medium 9.3 17 Immature N/A Cut in 2006 with stand 40. This area came back to mostly aspen.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Sapling/Pole	2	17
Black Spruce	5	Sapling	2	
Balsam Fir	10	Sapling	2	
Tamarack	5	Sapling	2	

83 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 22.2 54 51-80 N/A This is an upland hill/ridge within stand 47. Sanderson creek begins along the south boundary and flows east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole/Sapling	6	54	Black Ash	Medium	Variable	Sapling
Red Maple	33	Pole/Sap/Log	9	54	Tag Alder	Medium	Variable	Tall Shrub
Balsam Poplar	10	Pole/Sap/Log	8		Balsam Fir	Full	Variable	Sapling
Quaking Aspen	30	Pole/Sap/Log	8		Tamarack	Low	Variable	Sapling
Tamarack	12	Pole	8		Black Spruce	Low	Variable	Sapling