



# Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45040

Entry Year 2025

Acreage: 888

County Chippewa

Management Area: Rudyard Silty Lake Plain

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**Stand Examiner:** Josh Brinks

## Legal Description:

T45N-R1W, Sections 18-21, 28; T45N-R2W, Section 24

## Identified Planning Goals:

This compartment is primarily managed for outdoor recreation opportunities and timber. There are several red pine plantations which were planted in the early '60's. Many of these stands were thinned last entry but there are a few that have higher basal areas that will be thinned again during this inventory cycle. The other aspen and conifer stands are being prescribed to increase age class diversity and provide for wildlife habitat.

## Soil and topography:

The north part of this compartment is Markey-Kinross-Croswell association. It is a deep, poorly drained, mucky soil on outwash plains. The south part is Kalkaska-Rubicon association and is a deep, well drained, sandy soil on outwash plains and ground moraines. The landscape is gently rolling to flat.

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

The State of Michigan owns this strip of land south and west along the Gaines Highway. To the south is the Kincheloe subdivision and local township development projects, including a school, a Golf Course, and a recreation area around Dukes Lake. The compartment is highly used by the public for recreation purposes.

## Unique Natural Features:

No Unique Natural Features known.

## Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## Special Management Designations or Considerations:

Visual management guidelines should be adhered to in this compartment due to the high recreation use and surrounding public land use on township holdings.

## Watershed and Fisheries Considerations:

Good. Kinross (McGinnis) Lake is a warm water lake containing panfish, largemouth bass, pike and bullheads, and supports a moderate fishery. Duke's Lake is a designated trout lake, supporting a very nice population of rainbow trout. Kinross Township uses Duke's Lake to designate a Children's Fishing Day each year in June, when they isolate a portion of the shoreline with nets, and plant about 500 10" rainbows for the children to catch. In addition, Little Munuscong River, just north of this compartment, is a designated trout stream, and there is potential for adverse impacts to it from unusual timber management activity in sections 19 & 20.

Fisheries Concerns: The very immediate headwaters of Hutton Creek (branch of the East Branch of the South Branch Waiska River) begin near the center of this compartment (section). Also located in this compartment is Mud Lake which drains to Hutton Creek. Hutton Creek is a designated trout stream. Maneuvering in stand 2 for the seed tree cut should pay attention to the wet areas and avoid those.

## Wildlife Habitat Considerations:

This compartment is part of the Rudyard Silty Lake Plain Management Area and is primarily located between Gaines Highway and Kincheloe. Red pine plantations are common on sandy soils on the east side. Aspen and lowland conifer habitats are common in the north and west. Younger aspen stands resulting from past treatment are present adjacent to Gaines Highway, while stands with older aspen are south of that. The western portion of the compartment, just east of I-75, is dominated by marsh. Wildlife objectives include maintaining aspen in varying age classes, encouraging diversity within stands, and maintaining wetlands. In pine stands on the west side, oak will be left to diversify these stands and maintain a hard mast food source. Wetlands will be maintained and buffered following BMP's. Species supported by management in this compartment include white-tailed deer, ruffed grouse, snowshoe hare, waterfowl, and numerous 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 sand/gravel operations exist approximately two miles northwest. These pits are developed along a ridge of glacial material that is of limited extent. Potential for significant sand & gravel within the compartment appears low. Potential for other non-metallic minerals is considered low.

**Vehicle Access:**

There is good access to this compartment from Gaines Highway and several two tracks. The entire compartment is easily accessible.

**Survey Needs:**

Survey will be needed for harvests that are planned in T41N R01W sections 18, 19, and 20 along with T41N R02W Section 24.

**Recreational Facilities and Opportunities:**

Several developed trails are located within this compartment, including the Kinross Motorcycle trail, and snowmobile trails 494, 472 and 49. Unless absolutely necessary for winter logging, avoid the groomed snowmobile trails during the grooming season.

ORV trails abound in this compartment. The snowmobile trail is also a part of the public use here. There is limited hunting due to the proximity of the residential area, the school, and the correctional facility nearby. Dukes Lake, although owned by the township, provides swimming and fishing to local residents. There are no facilities on State land.

**Fire Protection:**

Good access and lakes nearby give this compartment good fire protection.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

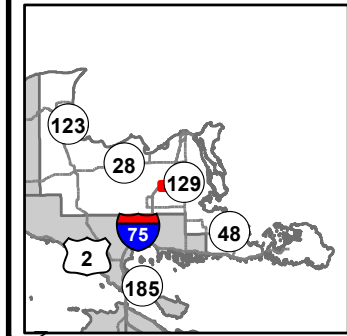
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

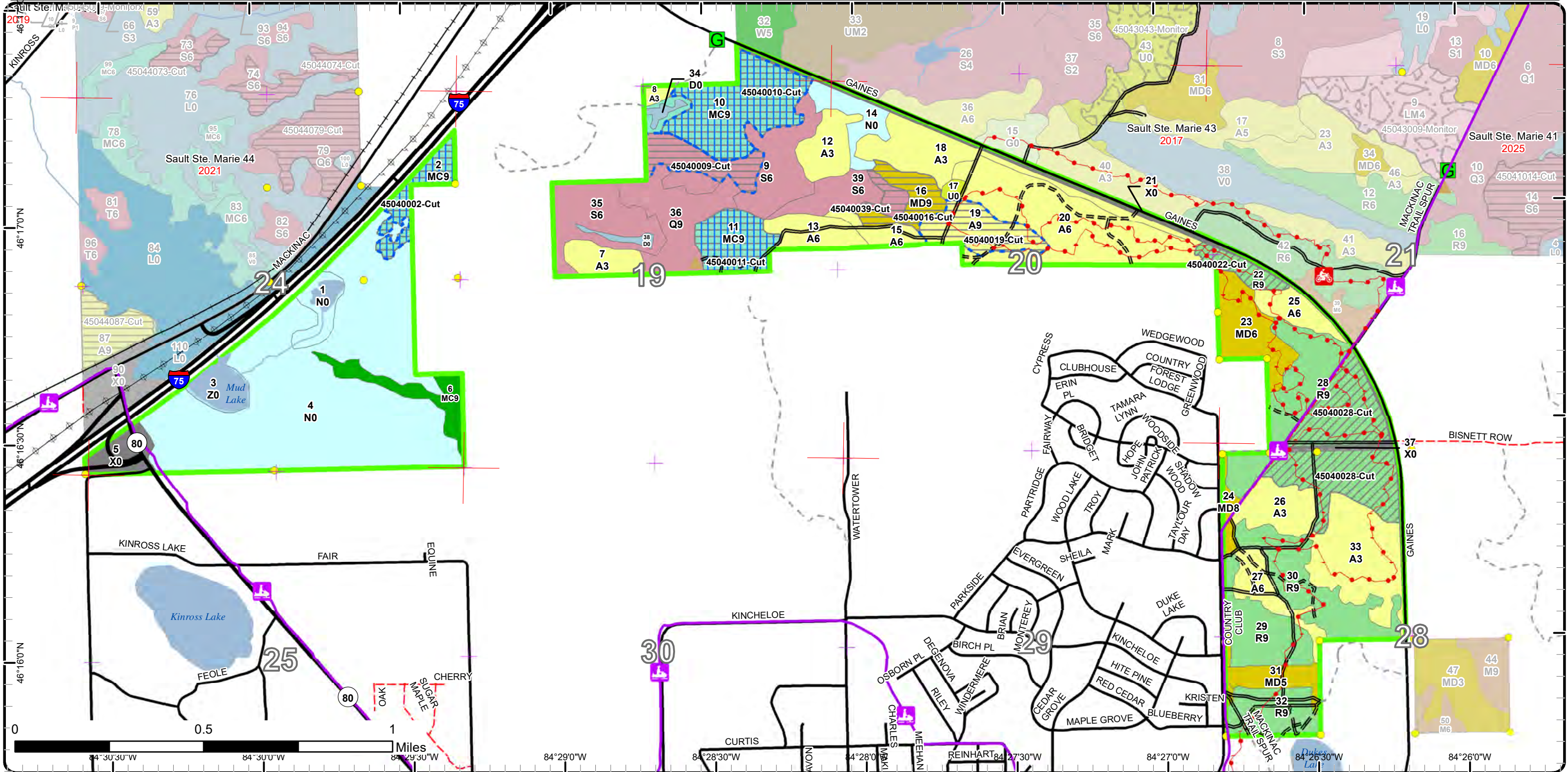
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 40  
 T45N, R02W, Sec: 24  
 T45N, R01W, Sec: 18-21, 28  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: Rudyard Silty Lake Plain  
 Plain  
 YOE: 2025  
 Acres: 887.7 GIS Calculated  
 Examiner: Josh Brinks  
 Map Revised: 8/2/2023  
 Map Phase: Review

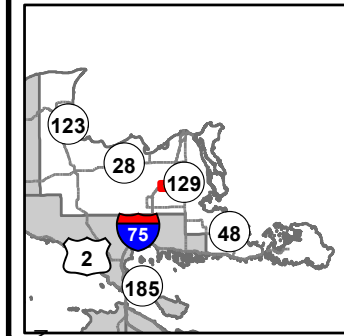


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

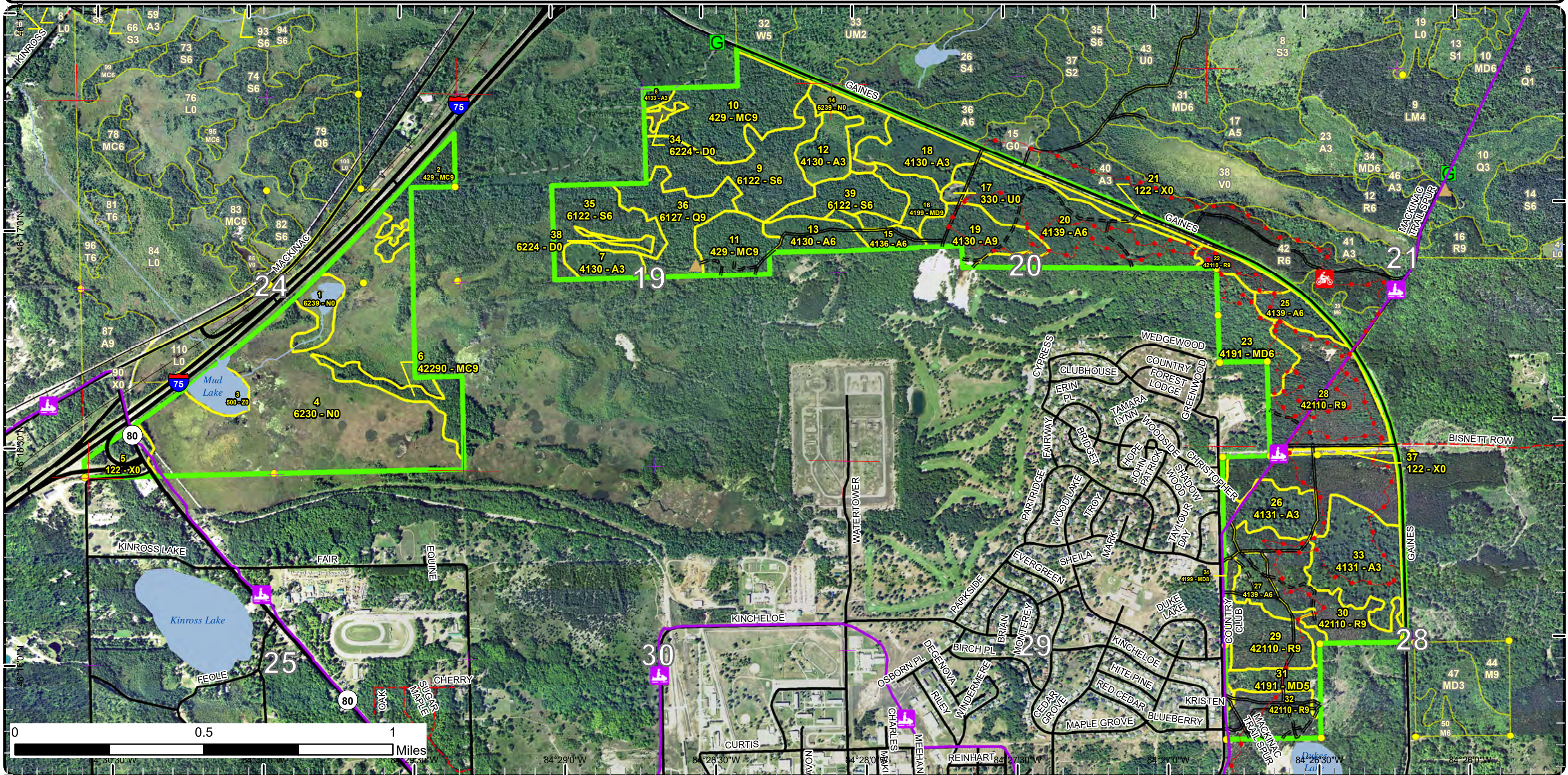


# Stand Boundary Map

Compartment: 40  
 T45N, R02W, Sec: 24  
 T45N, R01W, Sec: 18-21, 28  
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 Map Phase: Review



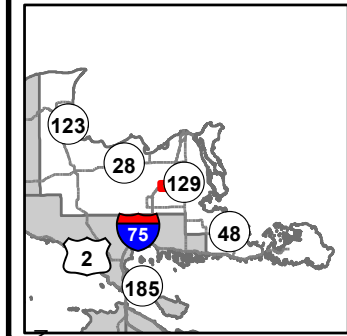
- Miris Corners
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- 🛷 Snowmobile Trails
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- Perennial River
- Lakes and Rivers
- ⚡ Powerline
- Compartment Boundary
- Stand Boundaries
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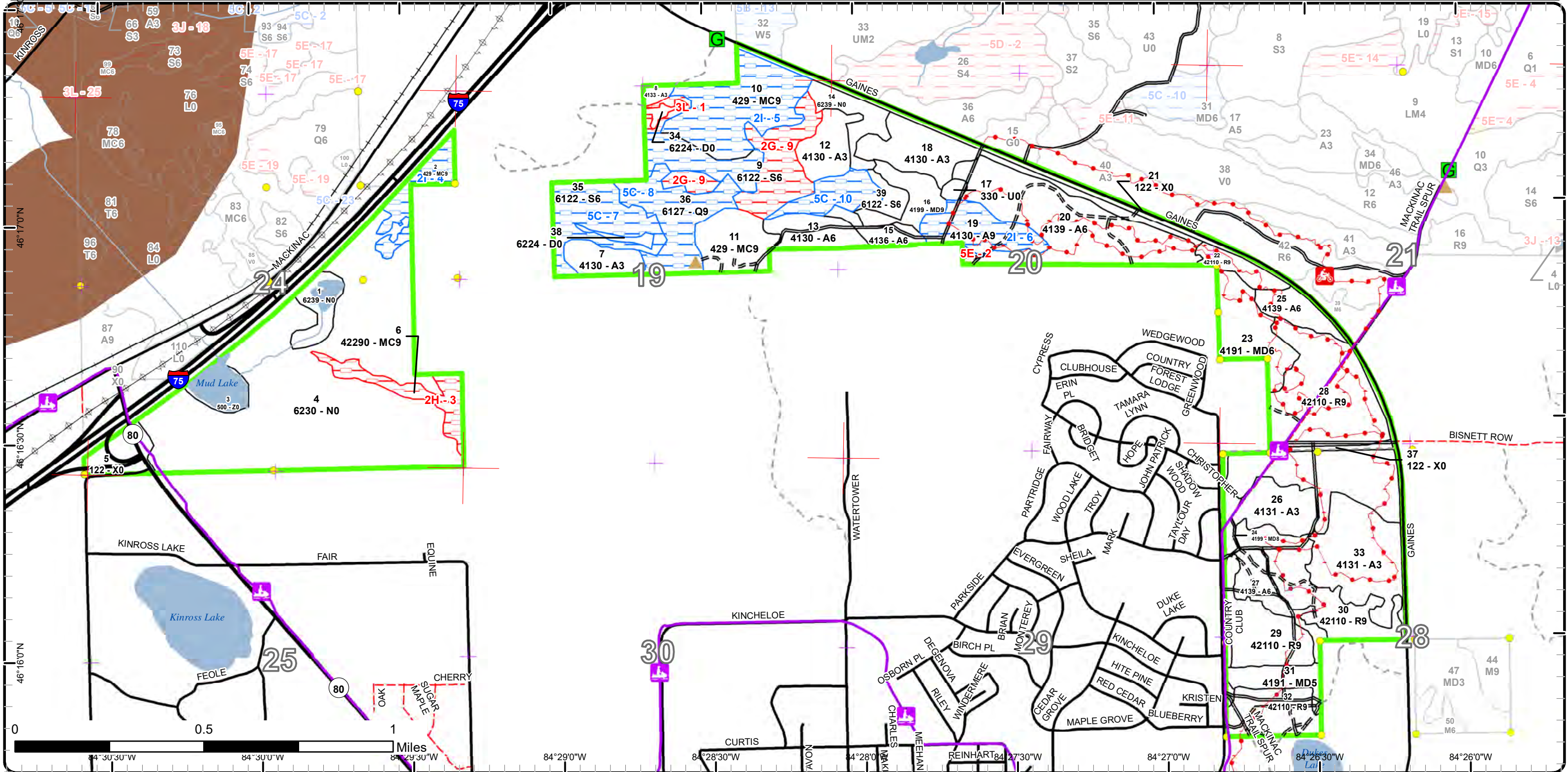
84°29'0"W 84°28'30"W 84°28'0"W 84°27'30"W 84°27'0"W 84°26'30"W 84°26'0"W

# Special Conservation Areas

Compartment: 40  
 T45N, R02W, Sec: 24  
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention



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+	Unseen-Aged	Total
Aspen	0	0	89	28	87	0	0	20	0	0	0	0	0	0	0	0	0	0	223
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	27
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	85	0	0	0	0	0	0	0	0	85
Marsh	201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	201
Mixed Upland Deciduous	0	0	0	0	10	0	0	7	22	0	12	0	0	0	0	0	0	0	51
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	14
Red Pine	0	0	0	0	0	0	0	164	0	0	0	0	0	0	0	0	0	0	164
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	0	0	0	0	42	0	13	0	19	0	0	0	0	0	0	74
Urban	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
<b>Total</b>	<b>251</b>	<b>0</b>	<b>89</b>	<b>28</b>	<b>97</b>	<b>0</b>	<b>0</b>	<b>233</b>	<b>22</b>	<b>125</b>	<b>12</b>	<b>19</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>888</b>



## Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit  
Year of Entry: 2025

Acres of Harvest

Compartment 40  
Total Compartment Acres: 888

Commercial Harvest - 98  
Harvests with Site Condition - 86  
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	19	0	0	0	0	0	0	0	0	19
Lowland Spruce/Fir	20	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	12	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	62	0	0	0	62
Upland Conifers	0	0	0	71	0	0	0	0	0	71
<b>Total</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>71</b>	<b>0</b>	<b>62</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>183</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	183	0	0	0	0	0	0	0	0	183
Next Step	0	0	0	0	0	0	121	0	0	121
<b>Total</b>	<b>183</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>121</b>	<b>0</b>	<b>0</b>	<b>305</b>



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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**Proposed Treatments:**

<b>2</b>	<b>45040002-Cut</b>	12.7	429 - Mixed Upland Conifers	Sawtimber Well	87	111-140	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Uneven-Aged	No
<p><u>Prescription</u> Mark 10 BA of red or and white pine to be left as seed trees and serve as retention. In areas of solid black spruce there may not be any pine to mark. All other trees should be cut down to 2" in DBH. Stay out of areas that are too wet to be harvested.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes spruce, pine, fir, aspen, maple, and birch</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>9</b>	<b>45040009-Cut</b>	15.0	6122 - Black Spruce Poletimber	Well	80	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Two-Aged	No
<p><u>Prescription</u> Cut all trees that are 2" or more in DBH except do not cut red or white pine, cedar and hemlock. No other retention will be needed for this cut. Exclude areas that are too wet to harvest and those that do not contain merchantable wood. The current treatment shape reflects the rough boundary that was seen during inventory but it likely to change during sale layout.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes spruce, pine, fir, aspen, birch, maple and cedar.</p> <p><u>Other Comment:</u> This treatment will be for any of the spruce on operable ground that can get lumped together with the treatment on stand 10. During layout try to include as much of this stand as is operable and merchantable.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>10</b>	<b>45040010-Cut</b>	39.3	429 - Mixed Upland Conifers	Sawtimber Well	62	111-140	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Mark 10-20 BA to be left as seed trees and long term retention. Do not cut any oak, cedar or hemlock. These species will count towards the BA target. Species priority to mark to leave would be white pine, red pine and paper birch. Choose leave trees that are wind firm, large wolfy trees, oversized pine or trees exhibiting other wildlife characteristics. When running lines leave an uncut strip adjacent to the wetland in the west end of the stand. Avoid harvesting in wet spots and swales. Treatment size may vary as some of the wet spots are excluded.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes white pine, red pine, spruce, fir, birch , aspen and maple.</p> <p><u>Other Comment:</u> There is at least one old approach to Gaines which could be used or we may need to seek permission from the school to access from the school forest. While running the red line include as much of the merchantable black spruce on operable ground as you can and apply the treatment that is on stand 9 to those areas. Create some brush piles along conifer swamp edges on south part of stand through normal processing operations if possible.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
<b>11 45040011-Cut</b>	18.7	429 - Mixed Upland Conifers	Sawtimber Well	103	51-80	Harvest	Seed Tree with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Leave 10 BA of white pine which will serve as seed trees and retention. Preferred to leave larger white pine that have wildlife characteristics. Cut all other trees down to 2" in DBH except do not cut any oak, yellow birch, hemlock and cedar.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, oak, pine, spruce and fir.</p> <p><u>Other Comment:</u> Create some brush piles along conifer swamp edges through normal processing operations if possible.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>16 45040016-Cut</b>	12.2	4199 - Other Mixed Upland Deciduous	Sawtimber Well	92	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees down to 2" in DBH. Do not cut pine, oak, cedar, hemlock or yellow birch. Avoid harvesting in wet pockets and swales. If possible, create some brush piles along or near the stand boundary, particularly along stand 39, during normal processing operations for hare habitat.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regen includes maple, oak, birch, aspen, pine, spruce, fir.</p> <p><u>Other Comment:</u> Treatment boundary may change. Where possible include mature timber on operable ground from stand 39.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>19 45040019-Cut</b>	18.7	4130 - Aspen	Sawtimber Well	62	111-140	Harvest	Clearcut with Retention	413 - 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 a patch of retention that meets the 3-10% requirement. Do not harvest in the hardwood patch adjacent to the sand pit, this could serve as the retention patch.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, oak, spruce, fir, and pine.</p> <p><u>Other Comment:</u> When it makes sense use the dirt bike trail as the boundary. There was one spot in the south side of the finger to the east that it looked like this might make sense.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>22 45040022-Cut</b>	7.7	42110 - Planted Red Pine	Sawtimber Well	62	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Thin to 120 BA. Leave under represented tree species when possible if they are not in the way of operations.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
<b>28 45040028-Cut</b>	54.2	42110 - Planted Red Pine	Sawtimber Well	62	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to 120 BA. Leave under represented species as diversity where operations will allow.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										
<b>39 45040039-Cut</b>	4.8	6122 - Black Spruce Poletimber	Well	80	Unspecified	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees down 2" except do not cut any white pine, red pine, oak, yellow birch or cedar. If possible, create some brush piles focusing along or near the stand boundaries (except with stands 15 &amp; 17) during normal processing operations for hare habitat.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes spruce, fir, tamarack, cedar, pine, maple, and birch</p> <p><u>Other Comment:</u> This treatment boundary will change. It is meant to cover any merchantable areas of this stand along the edge of stand 16.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										

**Total Treatment** 183.3  
**Acres Proposed:**

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 40

Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions					
Acres	Available	With Condition	Not Available	2I	5C	2G	2H	3L	5E
223	204	19	1	Aspen	19				1
2	2	0	0	Low-Density Trees					
27	0	27	0	Lowland Conifers		27			
85	5	54	27	Lowland Spruce/Fir	15	39	27		
201	201	0	0	Marsh					
51	51	0	0	Mixed Upland Deciduous					
14	0	0	14	Natural Mixed Pines			14		
163	163	0	0	Red Pine					
4	4	0	0	Treed Bog					
74	19	52	3	Upland Conifers	52			3	
33	33	0	0	Urban					
10	10	0	0	Water					
888	692	152	44	Total Forested Acres	86	66	27	14	3
	78%	17%	5%	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	3L: Other wildlife concerns	3	3J: Water quality / BMPs (stream, river, or lake)	5E: Long-Term Retention	Unspecified	Unspecified
<b>Comments:</b> WLD has asked to leave uncut wildlife corridors along wetlands. This will serve as a wetland buffer as well as a patch of retention.							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hardwood patch that will be left as retention.							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 40

Year of Entry: 2025

3	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	14	2B: Unknown if access through adjacent landowner(s) is possible	2E: Road needed	2I: Survey needed	Unspecified
<b>Comments:</b> Virtually inaccessiible.							
4	<b>Available</b>	<b>2I: Survey needed</b>	13	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Will need survey corners along with working with Soo Area Schools to get access to this parcel.							
5	<b>Available</b>	<b>2I: Survey needed</b>	54	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>2I: Survey needed</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Look to cut in 10- 20 years. Stand needs to put on more diameter growth before it is ready to be harvested.							
8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The white pine needs to put on a little more diameter growth before it is ready to harvest. Portions of the stand may be too wet to harvest in but overall the stand will be available in the future.							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 40

Year of Entry: 2025

9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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.

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
1	6239 - Mixed Emergent Wetland	Nonstocked	10.1		Unspecified	No	Seasonally flooded but always wet.																																												
2	429 - Mixed Upland Conifers	Sawtimber Well	12.7	87	111-140	N/A	The north end of the stand starts out as red maple with some scattered white pine and black spruce. As you head south it becomes a mix of red pine, white pine and black spruce. The southern end of the stand is wet and is mostly black spruce.																																												
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3	500 - Water	Nonstocked	9.9		Unspecified	No	Mud Lake																																												
4	6230 - Cattail	Nonstocked	179.8		Unspecified	No																																													
5	122 - Road/Parking Lot	Nonstocked	11.2		Unspecified	No	M-80 plus the one and off ramp to I-75. There are two patches of timber between the ramps.																																												
6	42290 - Natural Mixed Pine	Sawtimber Well	13.5	117	111-140	N/A																																													
7	4130 - Aspen	Sapling Well	10.0	16	Immature	N/A	Stand was cut as part of Gaines Aspen (45-006-05) which closed in 2006. Really nice aspen with scattered larger oak and white pine.																																												
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8	4133 - Aspen, Mixed Pine	Sapling Well	2.2	16	Immature	N/A	I am not sure on the history of this stand but it appears to have been harvested at the same time as the adjacent school forest lands. Right now it is aspen with some scattered large red and white pine.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>9</b>	6122 - Black Spruce	Poletimber Well	41.7	80	81-110	N/A	There is pretty decent black spruce growing adjacent to the mixed stand to the north. As you get further from that stand it gets smaller in diameter, wetter and more open. This is especially true along the eastern edge of the stand. Some of the drier areas have bracken fern.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		5	Pole	6		Balsam Fir		Medium	Variable	Sapling	
Paper Birch		5	Pole	7		Red Maple		Low	5 - 10 feet	Sapling	
Balsam Fir		5	Pole	5		Tag Alder		Low	5 - 10 feet	Tall Shrub	
Black Spruce		68	Pole	7	80	Black Spruce		Low	Variable	Sapling	
Red Maple		5	Pole	8							
White Pine		10	Log/Pole	10							
Yellow Birch		1	Log/Pole	10							
Northern White Cedar		1	Pole/Log	9							

<b>10</b>	429 - Mixed Upland Conifers	Sawtimber Well	42.3	62	111-140	N/A	This stand is dominated by a mix of red and white pine with spruce, aspen and birch scattered throughout. Most of the ground is upland with bracken ferns but there are some low wet spots in the stand and on the edges. In the north end near Gaines there are some wet areas.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		20	Pole/Log	8		Black Spruce		Low	Variable	Sapling	
Red Pine		10	Log	13		White Pine		Low	Variable	Sapling	
White Pine		48	Log/Pole	13	62	Red Maple		Medium	5 - 10 feet	Sapling	
Balsam Fir		5	Pole	6		Red Oak		Trace	5 - 10 feet	Sapling	
Bigtooth Aspen		5	Log	14							
Red Maple		5	Pole	6							
Quaking Aspen		2	Pole/Log	8							
Paper Birch		5	Pole	8							

<b>11</b>	429 - Mixed Upland Conifers	Sawtimber Well	18.7	103	51-80	N/A	This stand was cut with stands 13 and 15 but all or most of the pine was left. This resulted in a two aged stand where the canopy is dominated by log sized white pine with patches of small poles sized red maple, birch and aspen.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Pole/Sap/Log	5		Red Maple		High	5 - 10 feet	Sapling	
Paper Birch		5	Pole/Sapling	6		Balsam Fir		Medium	Variable	Sapling	
White Spruce		5	Pole/Sapling	5		Black Spruce		Trace	< 5 feet	Sapling	
Balsam Fir		5	Pole/Sapling	5							
Bigtooth Aspen		5	Pole/Sapling	5							
Quaking Aspen		15	Pole/Sap/Log	5	35						
White Pine		55	Log/Pole	13	103						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**12**      4130 - Aspen      Sapling Well      12.9      16      Immature      N/A      Fully stocked regeneration. smaller dbh than stand to east

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Sapling	1		Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	30	Sapling	2		Aspen (spp.)	Medium	Variable	Sapling
Red Maple	10	Sapling	2		White Pine	Trace	< 5 feet	Sapling
Quaking Aspen	33	Sapling	2	16	Black Spruce	Trace	< 5 feet	Sapling
White Pine	5	Log	12					
Paper Birch	5	Sapling	2					
Balsam Fir	10	Sapling	1					
Pin Cherry	5	Sapling	2					

**13**      4130 - Aspen      Poletimber Well      12.7      35      51-80      N/A      Cut at the same time as adjacent stands. This one has less conifers.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Sapling	5		Red Oak	Trace	5 - 10 feet	Sapling
White Spruce	5	Pole/Sapling	5		Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	10	Pole/Sap/Log	6		Balsam Fir	Low	Variable	Sapling
Red Maple	5	Pole/Sapling	5		White Spruce	Trace	< 5 feet	Sapling
Red Oak	5	Pole/Sapling	5					
White Pine	5	Pole/Log	9					
Bigtooth Aspen	40	Pole/Sapling	6	35				
Quaking Aspen	25	Pole/Sapling	5	35				

**14**      6239 - Mixed Emergent Wetland      Nonstocked      11.3           Unspecified      No

**15**      4136 - Aspen, Mixed Conifer      Poletimber Well      7.0      35      51-80      N/A      Aspen with a good mix of conifer in the canopy and understory. Scattered larger oak and white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole/Sapling	6		Red Oak	Trace	5 - 10 feet	Sapling
Red Maple	10	Pole/Sapling	5		Red Maple	Low	5 - 10 feet	Sapling
Red Oak	5	Pole	8		Balsam Fir	High	Variable	Sapling
Quaking Aspen	30	Pole/Sapling	5	35				
White Spruce	5	Sapling	3					
White Pine	5	Pole/Log	8					
Bigtooth Aspen	30	Pole/Sapling	6					
Balsam Fir	10	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>16</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.2	92	81-110	N/A	This stand is a mix of red maple, aspen and birch with a fir understory. The stand sits on the transition from upland to lowland resulting in dry sandy ridges mixed with low spots and swales.																																																													
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<b>17</b>	330 - Low-Density Trees	Nonstocked	1.9			No	
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<b>18</b>	4130 - Aspen	Sapling Well	26.7	17	Immature	N/A	Cut as part of Gaines Aspen which closed in 2006. Fully stocked regeneration. There are scattered larger oak and white pine throughout the stand. During the next inventory this will be a pole sized stand. This aspen is doing very well.																																																																		
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<b>19</b>	4130 - Aspen	Sawtimber Well	19.7	62	111-140	N/A	Stand of mature aspen with a maple dominated understory. There is a small hardwood inclusion near the sand pit.																																																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Bigtooth Aspen</td><td>50</td><td>Log/Pole</td><td>11</td><td>62</td></tr> <tr><td>White Pine</td><td>5</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Sugar Maple</td><td>10</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Red Maple</td><td>10</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Red Oak</td><td>10</td><td>Log/Pole</td><td>11</td><td></td></tr> <tr><td>Paper Birch</td><td>5</td><td>Pole</td><td>6</td><td></td></tr> <tr><td>Quaking Aspen</td><td>10</td><td>Log/Pole</td><td>11</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	50	Log/Pole	11	62	White Pine	5	Log/Pole	12		Sugar Maple	10	Log/Pole	11		Red Maple	10	Log/Pole	11		Red Oak	10	Log/Pole	11		Paper Birch	5	Pole	6		Quaking Aspen	10	Log/Pole	11		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Sugar Maple</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Striped Maple</td><td>Trace</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Oak</td><td>Low</td><td>&lt; 5 feet</td><td>Sapling</td></tr> <tr><td>Hazelnut (Spp.)</td><td>Low</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>White Spruce</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	5 - 10 feet	Sapling	Striped Maple	Trace	5 - 10 feet	Sapling	Balsam Fir	Low	Variable	Sapling	Red Oak	Low	< 5 feet	Sapling	Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub	White Spruce	Low	Variable	Sapling	Red Maple	Low	5 - 10 feet
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>20</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	57.2	35	51-80	N/A	This stand is generally younger or smaller in DBH than the stands to the west. There are some scattered pockets of large mature aspen in the stand. There is a decent amount of smaller pole sized maples and oaks throughout the stand. In the far east end of the stand it is heavier to hardwoods than aspen. 2015 YOE Comment-Looks like it was an opening at one time, pole sugar maples are limby, reserved when cut along with some oak probably.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Pole/Sapling	5		Serviceberry (Juneberry)		Trace	10 - 20 feet	Sapling	
Quaking Aspen		20	Pole/Sapling	5	35	Maple (spp.)		Low	5 - 10 feet	Sapling	
Bigtooth Aspen		30	Pole/Sapling	6	35	Balsam Fir		Low	Variable	Sapling	
Paper Birch		5	Sapling/Pole	4		Red Oak		Medium	Variable	Sapling	
Red Oak		19	Pole/Sap/Log	6							
White Pine		1	Log	11							
Sugar Maple		10	Log/Pole	11							

<b>21</b>	122 - Road/Parking Lot	Nonstocked	19.3		Unspecified	No	
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<b>22</b>	42110 - Planted Red Pine	Sawtimber Well	7.7	62	141-170	N/A	Stand was thinned in the spring of 2016 (Green-Red Pine). Decent red pine with scattered oak and white pine. The understory is beginning to get established, in some areas it is pretty thick.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		2	Log/Pole	10		Hazelnut (Spp.)		Medium	5 - 10 feet	Tall Shrub	
White Pine		1	Pole/Log	9		Red Oak		Low	5 - 10 feet	Sapling	
Red Pine		97	Log/Pole	11	62	Red Maple		Low	Variable	Pole	
						Balsam Fir		Low	5 - 10 feet	Sapling	

<b>23</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	21.9	71	81-110	N/A	This resembles a two aged stand with scattered large oaks and a few white pine. The dominate part of the stand is the pole sized trees which are mostly oak, aspen and maple.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		10	Log/Pole	13		Hazelnut (Spp.)		Medium	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		10	Log	15		Red Oak		Medium	Variable	Sapling	
Red Oak		50	Pole/Log/Sap	8	71	Red Maple		Medium	Variable	Sapling	
Red Maple		10	Pole	6		Balsam Fir		Low	Variable	Sapling	
Quaking Aspen		10	Pole	8		Sugar Maple		Low	< 5 feet	Sapling	
Red Pine		10	Pole	8							

<b>24</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	6.7	60	81-110	N/A	Was open at one time, filling in with oak aspen and other species.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Sapling/Pole	5			
Red Oak		40	Log/Pole/Sap	10	60		
Paper Birch		5	Pole	6			
White Pine		5	Pole	8			
Quaking Aspen		30	Sapling/Pole	5			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>25</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	9.6	37	81-110	N/A	This stand contains a strip of smaller timber along the road that was removed in the 2000's. This stand is on the edge of being considered pole sized. Some of the bigtooth aspen are quite large but a majority of the stand is still in the pole size class.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	10	Pole	8		Red Maple	Low		Variable	Sapling
Yellow Birch	2	Pole	5		Red Oak	Low		< 5 feet	Sapling
Red Oak	15	Pole/Sap/Log	5		Hazelnut (Spp.)	Low		5 - 10 feet	Tall Shrub
White Spruce	1	Log	13		Balsam Fir	Trace		< 5 feet	Sapling
Quaking Aspen	25	Pole	6	37	Sugar Maple	Medium		Variable	Sapling
Sugar Maple	10	Sapling/Pole	4	37					
Red Maple	12	Pole	6						
Bigtooth Aspen	25	Log/Pole	11	37					

<b>26</b>	4131 - Aspen, Oak	Sapling Well	15.9	24	1-50	N/A	Two aged stand created by leaving oak during the harvest. Scattered log and pole oak trees with sapling aspen, maple and oak. The smaller trees will likely be pole sized during the next inventory. There is a decent amount of sugar maple seedling growing in the understory indicating slightly better soils. This stand did not receive as significant of damage from the ice storm as the adjacent stand to the east.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	15	Sapling/Pole	4		Sugar Maple	High		< 5 feet	Sapling
White Pine	5	Log/Pole	11		Serviceberry (Juneberry)	Low		10 - 20 feet	Sapling
Quaking Aspen	28	Sapling/Pole	4	24	Hazelnut (Spp.)	Low		5 - 10 feet	Tall Shrub
Paper Birch	1	Pole/Sapling	5		Red Oak	Low		5 - 10 feet	Sapling
Yellow Birch	1	Sapling	2		Red Maple	Low		< 5 feet	Sapling
Red Maple	25	Sapling/Pole	4						
Red Oak	25	Log/Pole/Sap	12	80					

<b>27</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	12.4	23	51-80	N/A	The core of this stand is aspen mixed with red maple and oak. There are a few small inclusions of different types such as the more open area in the western part of the stand that is dominated by small pole sized oak.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	35	Pole/Sapling	5	23	Serviceberry (Juneberry)	Low		10 - 20 feet	Sapling
Bigtooth Aspen	20	Pole/Sapling	5		Sugar Maple	Trace		5 - 10 feet	Sapling
White Pine	5	Log/Pole	10		Red Maple	High		5 - 10 feet	Sapling
Red Maple	10	Pole/Sapling	5		Hazelnut (Spp.)	Medium		5 - 10 feet	Tall Shrub
Sugar Maple	5	Sapling	3		Red Oak	Medium		5 - 10 feet	Sapling
Paper Birch	10	Sapling/Pole	4						
Red Oak	15	Pole/Sapling	5						

<b>28</b>	42110 - Planted Red Pine	Sawtimber Well	83.6	62	111-140	N/A	Stand was thinned in spring of 2016 (Green-Red Pine). Contains snowmobile and ORV trails. The stand recieved some damage from the ice storm evident by the tipped over trees and trees missing their tops. There is higher BA in the part of the stand east of the snowmobile trail. In these areas the understory is still fairly open but along the edges and in areas of lower BA the hardwood has started to become established.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	5	Log/Pole	11		Red Pine	Trace		< 5 feet	Sapling
Red Maple	5	Pole	6		Yellow Birch	Trace		5 - 10 feet	Sapling
Red Pine	90	Log/Pole	12	62	Red Maple	Low		Variable	Sapling
					Red Oak	Medium		5 - 10 feet	Sapling
					White Pine	Trace		< 5 feet	Sapling
					Striped Maple	Low		5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
29	42110 - Planted Red Pine	Sawtimber Well	22.5	64	141-170	N/A	Stand was 3rd row thinned in spring of 2016 (Dukes Lake Red Pine). The BA ranges from 130-160. There are pockets where the BA is higher. There is evidence of storm damage from the ice storm throughout the stand. The hardwood regeneration is well established.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	94	Log/Pole	10	64	Red Maple	Medium		5 - 10 feet	Sapling
Red Oak	5	Log/Pole	12		Hazelnut (Spp.)	Medium		5 - 10 feet	Tall Shrub
Red Maple	1	Pole/Sapling	5		Red Oak	High		5 - 10 feet	Sapling
					Paper Birch	Trace	10 - 20 feet	Sapling	
30	42110 - Planted Red Pine	Sawtimber Well	31.1	62	111-140	N/A	Stand was thinned in spring of 2016 (Dukes Lake Red Pine). This plantation is on better ground than those to the south and is growing better quality trees. There are still some places in this stand where there isn't any regeneration in the understory but along the edges and in areas of lower BA the hardwoods are getting established.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	94	Log/Pole	12	62	Red Maple	Medium		5 - 10 feet	Sapling
Red Oak	5	Log/Pole	12		Hazelnut (Spp.)	Low		5 - 10 feet	Tall Shrub
Red Maple	1	Pole	6		Red Pine	Trace		< 5 feet	Sapling
					Red Oak	Medium	5 - 10 feet	Sapling	
31	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	10.3	30	1-50	N/A	This stand was once classified as an opening. Now there is a scattered canopy of pole sized timber. The jack pine in this stand is of merchantable size but nothing else around it is. There is a thick understory of hardwood regeneration below the pole sized canopy.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	5	Pole	6		White Pine	Low		5 - 10 feet	Sapling
Red Maple	20	Pole/Sapling	5		Red Pine	Low		5 - 10 feet	Sapling
Red Oak	25	Pole/Sapling	6		Red Oak	High		5 - 10 feet	Sapling
Jack Pine	30	Pole	7	30	Red Maple	High		5 - 10 feet	Sapling
Quaking Aspen	20	Pole/Sapling	5		Sugar Maple	Low		5 - 10 feet	Sapling
					Balsam Fir	Trace	5 - 10 feet	Sapling	
32	42110 - Planted Red Pine	Sawtimber Well	18.6	62	81-110	N/A	Stand was third row thinned in spring of 2016(Dukes Lake Red Pine). The BA is on the lower end and will not support a thinning during this entry. The hardwood regeneration is well established in this stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	2	Pole/Log	8		Red Maple	High		5 - 10 feet	Sapling
White Pine	1	Log	15		Hazelnut (Spp.)	High		5 - 10 feet	Tall Shrub
Red Oak	5	Log/Pole	12		Red Oak	High		5 - 10 feet	Sapling
Red Pine	92	Log/Pole	11	62	Sugar Maple	Low	5 - 10 feet	Sapling	
33	4131 - Aspen, Oak	Sapling Well	36.9	16	Immature	N/A	It appears that this stand was harvested leaving all oak making it a two aged stand. The soil must be a little richer in this area as sugar maple is the dominate species in the understory in the seedling layer. The stand has scattered log and pole sized oaks that were left and in between is a mix of sapling sized oak, maple and aspen. The stand has significant damage from the ice storm a few years ago with many of the sapling trees bent over but still alive. I feel there are still enough straight stems growing in between that it is not worth doing anything about but it does not look too appealing.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	15	Sapling	3		Sugar Maple	High		< 5 feet	Sapling
Red Maple	20	Sapling	1		Red Oak	Low		5 - 10 feet	Sapling
White Pine	5	Log/Pole	11						
Red Oak	25	Log/Pole/Sap	13	62					
Red Pine	5	Pole	8						
Pin Cherry	5	Sapling	2						
Quaking Aspen	25	Sapling	3	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**34** 6224 - Treed Bog Nonstocked 1.8 0 Unspecified No

**35** 6122 - Black Spruce Poletimber Well 26.2 80 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	1	Log	13		White Pine	Low	< 5 feet	Sapling
Red Maple	2	Log/Pole	12		Paper Birch	Trace	5 - 10 feet	Sapling
Paper Birch	1	Pole	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	1	Pole/Log	8		Red Maple	Medium	5 - 10 feet	Sapling
White Pine	8	Log/Pole	10		Red Oak	Trace	5 - 10 feet	Sapling
Northern White Cedar	1	Pole/Log	9		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	85	Pole	6	80	Balsam Fir	Low	Variable	Sapling
Yellow Birch	1	Log/Pole	10					

This is an area dominated by black spruce with scattered white pine. The ground is fairly wet with boggy, open areas throughout. Most of the ground is likely operable but the trees need some time to grow a little more.

**36** 6127 - Lowland Pine Sawtimber Well 27.3 80 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	1	Log	13		Black Spruce	Low	5 - 10 feet	Sapling
Bigtooth Aspen	1	Pole/Log	9		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	25	Pole/Log	8		Red Maple	Low	5 - 10 feet	Sapling
Jack Pine	2	Pole	8		White Pine	Trace	< 5 feet	Sapling
Paper Birch	1	Pole	8		Leatherleaf	High	< 5 feet	Tall Shrub
White Pine	70	Log/Pole	10	80				

Stand dominated by white pine mixed with black spruce. There are some wetter areas where the canopy is fairly open. There are also some upland sandier ridges throughout.

**37** 122 - Road/Parking Lot Nonstocked 2.9 0 No

**38** 6224 - Treed Bog Nonstocked 2.1 0 Unspecified No

Area of treed bog and tag alder.

**39** 6122 - Black Spruce Poletimber Well 17.1 80 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole	6		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	53	Pole	7	80	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole	6		Red Maple	Medium	5 - 10 feet	Sapling
White Pine	5	Pole/Log	10					
Northern White Cedar	1	Pole/Log	9					
Red Maple	15	Pole	8					
Yellow Birch	1	Log/Pole	10					
White Spruce	5	Pole	8					

This is a lowland stand of black spruce with a good amount of red maple and birch in the canopy. The stand is pretty wet with some areas of higher ground mixed in.