



# Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45038

Entry Year 2023

Acreage: 2,049

County Chippewa

Management Area: Kincheloe Highlands

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**Stand Examiner:** Josh Brinks

## Legal Description:

T44N R01W Sections 4, 5, 8, and 9; T45N R01W Sections 32 and 33.

## Identified Planning Goals:

Compartment 38 has been a multiple use compartment. Snowmobiling, ORV use, X-country skiing, gravel extraction, timber harvesting, and dispersed outdoor recreation are all occurring in this compartment. During this planning period timber will continue to be sustainably harvested while striving to diversify age classes and protect recreational opportunities.

## Soil and topography:

Kalkaska-Rubicon associates make up the soils in this compartment. These soils are generally very well to excessively drained. The topography is quite flat with the only major relief existing at or near the gravel pit in sections 33 and 4.

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

This area is blocked in well enough to make management relatively simple. The north is bounded by M-80, the east by the Wilson Road and other State of Michigan ownership, the south by private and the west by prisons and other well defined development such as vehicle testing facilities and the Chippewa County International Airport. Some State of Michigan holdings also border in the southwest.

## Unique Natural Features:

This compartment is unique in that it is our only compartment that is essentially 100% upland.

## Archeological, Historical, and Cultural Features:

There is an archeological site located in the northern portion of this compartment. DNR and contract workers are instructed to be on the lookout for anything that is obviously man-made or looks out of the ordinary while doing field work.

## Special Management Designations or Considerations:

Some areas in the south are under use permit for ground water monitoring wells. These wells monitor levels of chemicals left over from the days when Kincheloe AFB did their aircraft fire suppression training immediately adjacent to the compartment.

## Watershed and Fisheries Considerations:

This compartment is adjacent to Dukes Lake, a trout lake with Type A trout lake regulations. No treatments are scheduled near this waterbody, so there are no Fisheries concerns at this time.

## Wildlife Habitat Considerations:

This compartment is part of the Kincheloe Highlands Management Area where featured wildlife species include black bear, red crossbill, and ruffed grouse. It is located just east of the Chippewa County International Airport. Sandy soils dominate, producing conditions suitable for the pine, aspen and birch, oak, and hardwoods. A number of red pine plantation stands are scattered throughout the compartment and are also common in the compartment to the east; red pine management is a focus in this area. Remaining areas have a mix of species mentioned. Past treatments have allowed maintenance of age class diversity in aspen stands, oak (both saplings and older trees) to be released, and enhancement of diversity in hardwood stands.

Wildlife objectives include maintaining and enhancing the current species and age class diversity of the forest in this area while also striving toward some long-range management goals. Many of the treatments will involve red pine thinnings. Other species will generally be retained in the stand where present. Oak, yellow birch, and age class diversity will be encouraged as part of a thinning in a larger northern hardwood stand. Long range goals include promoting resources in the best locations in this MA considering public use, forest management, and wildlife habitat considerations. Over the long term, the intention is to promote intensive pine management in the western part of the compartment and more natural types of management that further promote wildlife habitat values further east.

### **Mineral Resource and Development Concerns and/or Restrictions**

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. The State-owned Kinross Pit is in Sec 4 within the compartment and is currently leased to Payne & Dolan. Payne & Dolan also own and operate additional pits outside the compartment. There are some areas within the compartment that appear to have good potential for additional sand & gravel. Payne & Dolan have expressed recent interest in locating additional source material in the area.

### **Vehicle Access:**

Very good to excellent with numerous main roads and side roads within the compartment. Due to the ease of access and close proximity to Kinross dumping is a continuous problem with mostly household trash and tires being disposed of.

### **Survey Needs:**

Survey corners are needed in T45N R01W sections 32 and 33.

### **Recreational Facilities and Opportunities:**

This is a very popular compartment for recreational activities. An ORV trailhead is located on the Wilson Road with trails leaving in several directions. Part of the Pine Bowl X-country Ski Trail is located south of the gravel pit and snowmobilers have a trail on the south boundary and across the north. Hunting is popular because of the ease of access. There is berry picking in season.

### **Fire Protection:**

Fire potential in this compartment is greater due to more recreational users, drier soils, and pine timber types. Access is good for fire equipment with numerous access roads throughout. Dukes Lake north of this compartment provides a good water source. There is also a pond located west of the Wilson Rd. gravel pit that could be used as a water source and a pond in the bottom of the pit.

### **Additional Compartment Information:**

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

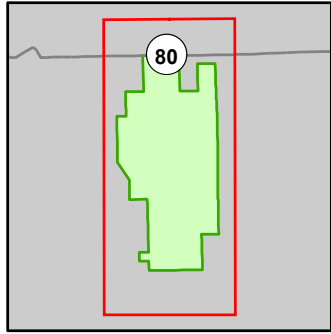
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

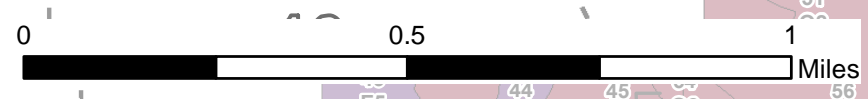
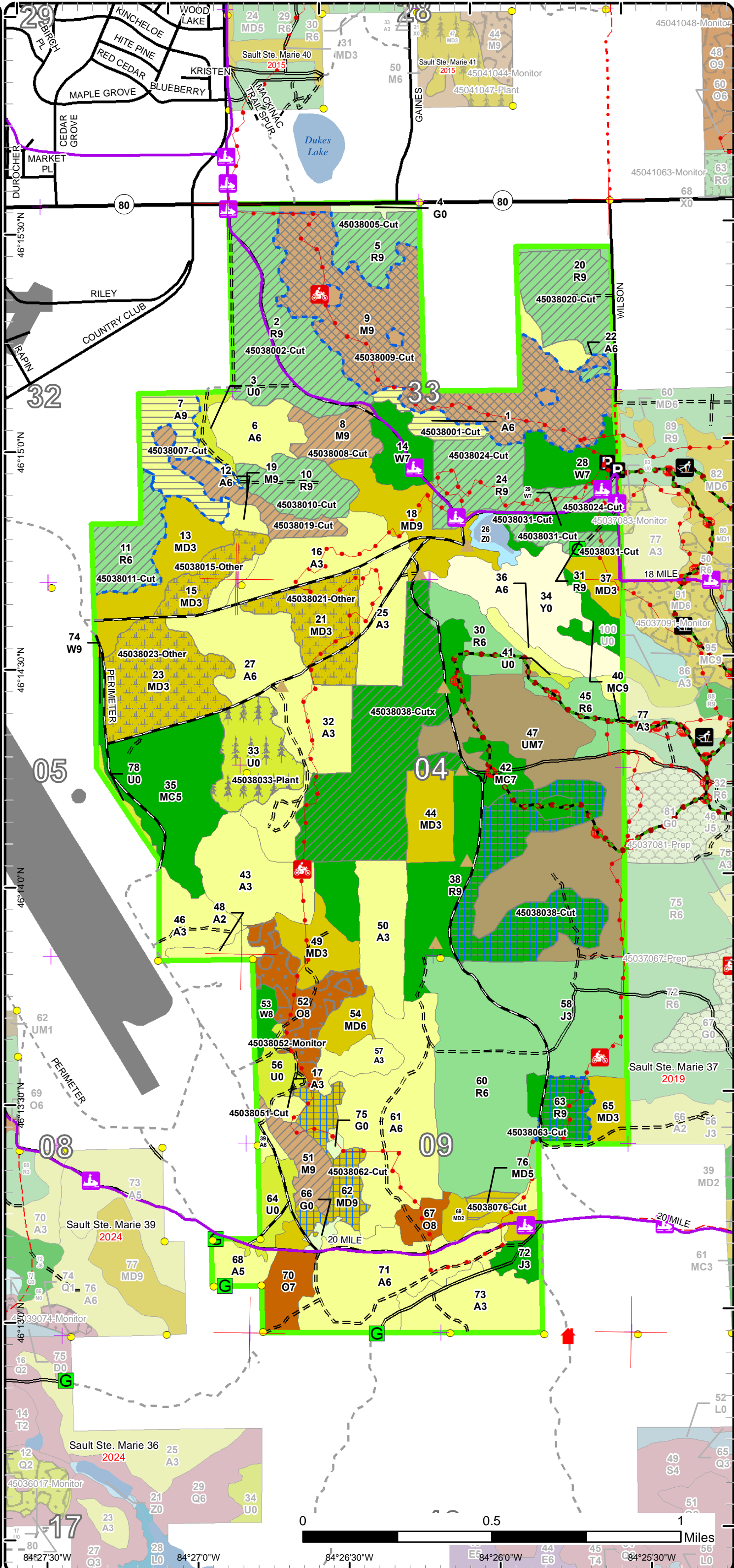
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 38  
 T45N,R01W, Sec. 32, 33  
 T44N, R01W, Sec. 4, 5, 8, 9  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: Kincheloe Highlands  
 YOE: 2023  
 Acres: 2049.3 GIS Calculated  
 Examiner: Josh Brinks  
 Map Revised: 1/28/2022  
 Map Phase: Post Review



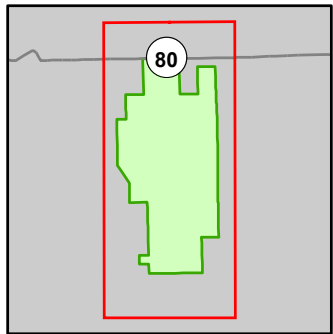
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Ski Trails
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Berms
- Gate
- Parking Lot
- Sign
- Trailhead
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Planting (tree species)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 710 - Sand/Soil



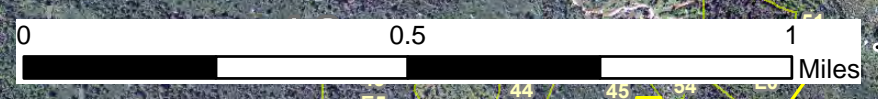
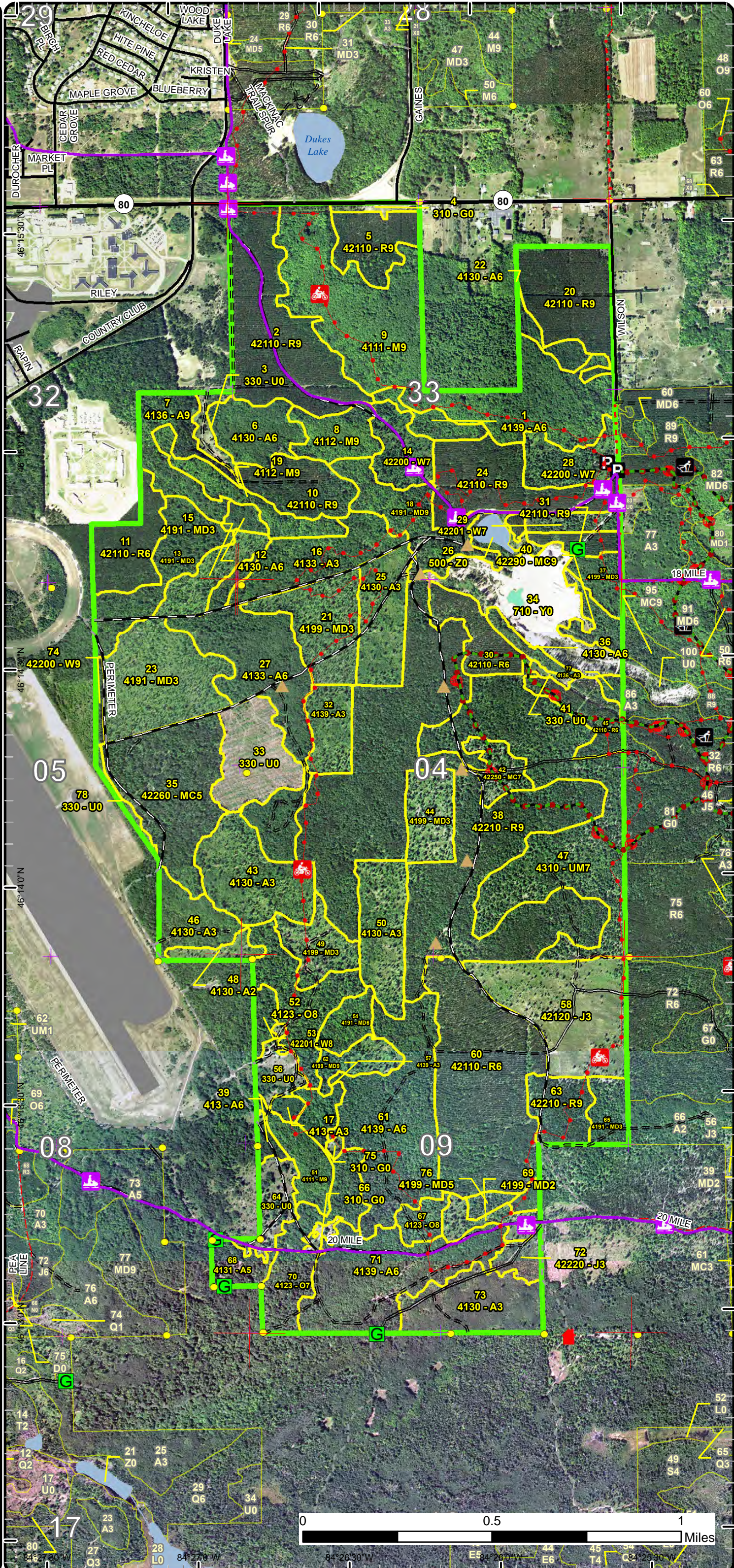
84°27'30"W 84°26'30"W 84°26'0"W 84°25'30"W

# Stand Boundary Map

Compartment: 38  
 T45N,R01W, Sec. 32, 33  
 T44N, R01W, Sec. 4, 5, 8, 9  
 County: Chippewa  
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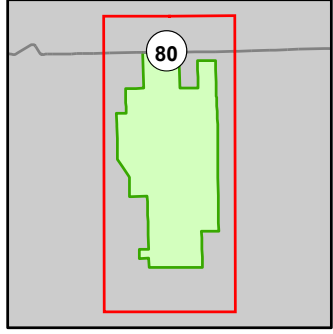


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ✎ Ski Trails
- 🏍️ Motorcycle Trails (DNR License)
- 🏍️ Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
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- Designated Multi-Use Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🏠 Cabin
- ▲ Berms
- G Gate
- P Parking Lot
- 🛑 Sign
- ✳️ Trailhead
- ✈️ Airports
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
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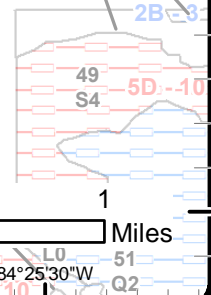
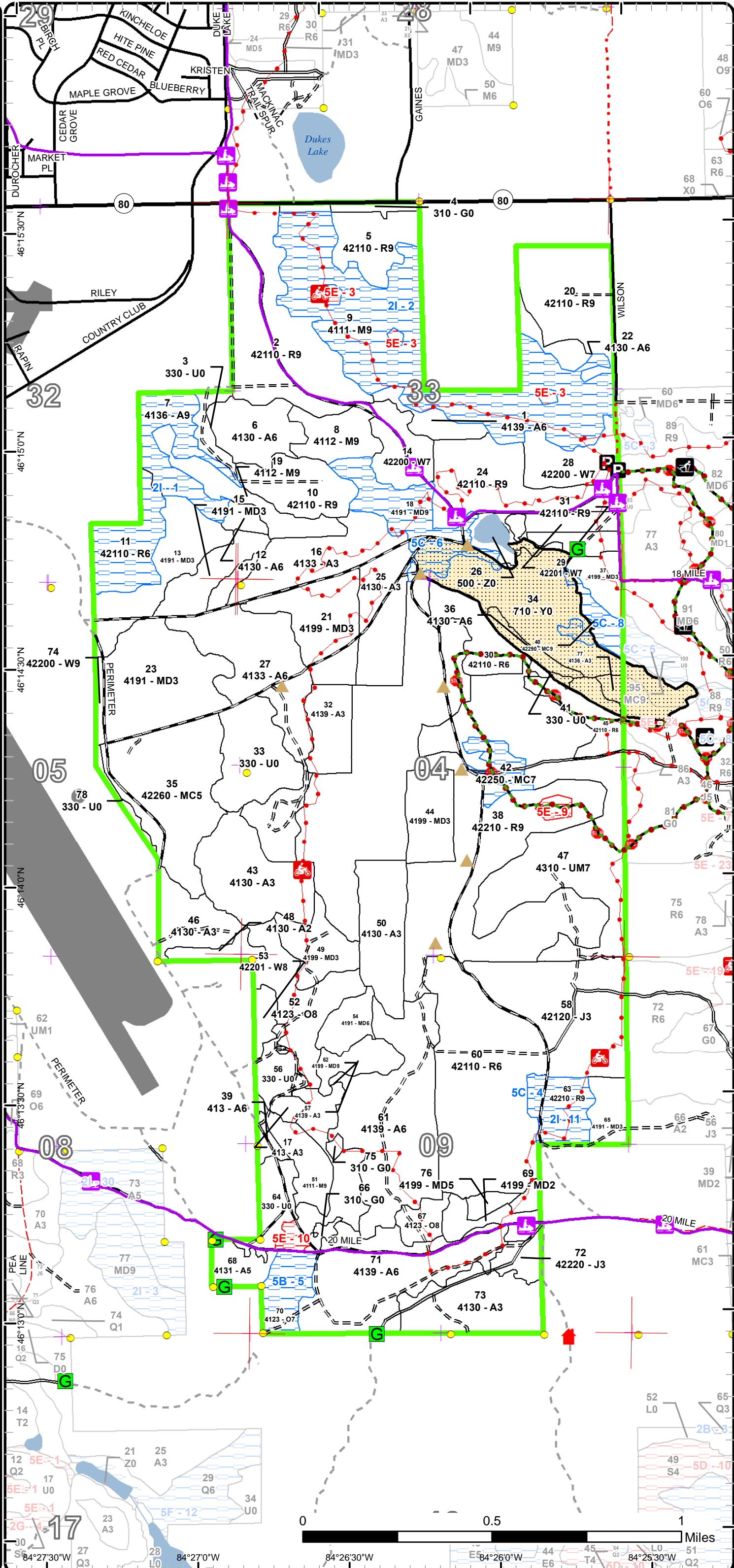


# Special Conservation Areas

Compartment: 38  
 T45N,R01W, Sec. 32, 33  
 T44N, R01W, Sec. 4, 5, 8, 9  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: Kincheloe Highlands  
 YOE: 2023  
 Acres: 2049.3 GIS Calculated  
 Examiner: Josh Brinks  
 Map Revised: 1/28/2022  
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
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- Federal / State Highway
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- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🏠 Cabin
- ▲ Berms
- G Gate
- P Parking Lot
- ⏹ Sign
- \* Trailhead
- ✈️ Airports
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Sand or Gravel Pit



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	19	148	51	232	28	0	0	36	0	0	0	0	0	0	0	0	0	513
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Jack Pine	0	0	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Low-Density Trees	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Mixed Upland Deciduous	0	117	31	11	11	42	0	4	56	0	0	0	0	0	0	0	0	0	271
Natural Mixed Pines	0	0	0	0	0	0	69	0	0	0	11	0	0	0	0	0	0	0	79
Northern Hardwood	0	0	0	0	0	0	0	0	177	0	0	0	0	0	0	0	0	0	177
Oak	0	0	0	0	0	0	0	0	8	32	16	0	0	0	0	0	0	0	56
Red Pine	0	0	0	0	24	0	0	335	214	18	0	0	0	0	0	0	0	0	591
Sand, Soil	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Upland Mixed Forest	0	0	0	0	0	0	0	0	110	0	0	0	0	0	0	0	0	0	110
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	0	0	49	3	6	0	0	0	0	0	0	0	0	58
<b>Total</b>	<b>130</b>	<b>136</b>	<b>245</b>	<b>62</b>	<b>267</b>	<b>70</b>	<b>69</b>	<b>388</b>	<b>604</b>	<b>56</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2050</b>



## Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 38  
Total Compartment Acres: 2,049

Commercial Harvest - 439  
Harvests with Site Condition - 186  
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	36	0	0	0	0	0	0	0	0	36
Mixed Upland Deciduous	4	0	0	22	0	0	0	0	0	26
Northern Hardwood	0	121	0	0	0	51	0	0	0	172
Red Pine	0	0	0	77	0	315	0	0	0	392
<b>Total</b>	<b>40</b>	<b>121</b>	<b>0</b>	<b>99</b>	<b>0</b>	<b>366</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>625</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	625	0	31	0	0	0	32	99	0	786
Next Step	0	155	0	0	0	31	450	0	0	635
<b>Total</b>	<b>625</b>	<b>155</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>31</b>	<b>482</b>	<b>99</b>	<b>0</b>	<b>1421</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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**Approved Treatments:**

<b>1</b>	<b>45038001-Cut</b>	9.4	4139 - Aspen, Mixed Deciduous	Poletimber Well	71	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2" in DBH. Do not cut red or white pine, yellow birch, hemlock, cedar or oak if they exist in the stand. If the treatment stays less than 10 acres then no retention is needed. Stay south of the Dirt Bike trail, where it makes sense leave a strip of trees to thin between this cut and the trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, maple, oak, fir, spruce and pine.</p> <p><u>Other Comment:</u> Be on the lookout for anything that is obviously man-made or looks out of the ordinary and report anything you find.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>2</b>	<b>45038002-Cut</b>	68.3	42110 - Planted Red Pine	Sawtimber Well	62	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to 120 BA. Leave species diversity where present unless removal is needed for operations.</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> Be on the lookout for anything that is obviously man-made or looks out of the ordinary and report anything you find.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>5</b>	<b>45038005-Cut</b>	21.2	42110 - Planted Red Pine	Sawtimber Well	60	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 120 BA. This will be a light thinning for the west half of the stand. Leave species diversity where present unless removal is needed for operations.</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> Be on the lookout for anything that is obviously man-made or looks out of the ordinary and report anything you find.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>7</b>	<b>45038007-Cut</b>	26.2	4136 - Aspen, Mixed Conifer	Sawtimber Well	71	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut everything down to 2" in DBH. DO not cut white pine, oak, hemlock, yellow birch or cedar if they exist in the stand. Because of the shape of this treatment only leave those scattered species as retention.  
Specs:

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

Acceptable Regen: Acceptable regen includes aspen, maple, birch, spruce, fir, jack pine, white pine, red pine, oak.

Other Comment: Treatment shape may vary some.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022

<b>8</b>	<b>45038008-Cut</b>	17.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	71	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand to 70-80 BA. This is not a regeneration cut so no need to create canopy gaps at this time.  
Specs:

Next Step Treatments:

Acceptable Regen:

Other Comment: Be on the lookout for anything that is obviously man-made or looks out of the ordinary and report anything you find.

Site Condition

Proposed Start Date: 10/1 /2022

<b>9</b>	<b>45038009-Cut</b>	120.9	4111 - S.Maple, Hard Mast Association	Sawtimber Well	71	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand to 70-80 BA. Create larger canopy gaps around the oak and yellow birch to enhance the regeneration of these species. Remove all aspen and white spruce. Leave retention patches that are left unmarked. There are some areas along the border of the stand that do not have much merchantable trees leave these out of the harvest. Some pockets of aspen will look more like a CC and increase structural diversity. Particularly on the east side of the stand near the little patch of red pine.  
Specs:

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regen: Acceptable regen includes, maple, oak, birch, aspen, spruce, fir, basswood, beech and ironwood.

Other Comment: This treatment size may vary. Restrict the logger from creating more access points/ roads through this stand. Access will be from old fire breaks on the west and should be skid to those locations. Be on the lookout for anything that is obviously man-made or looks out of the ordinary and report anything you find.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022



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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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<b>10</b>	<b>45038010-Cut</b>	23.5	42110 - Planted Red Pine	Sawtimber Well	61	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand to 120 BA. Mark through those mixed areas of the stand in order to create skid trails. Leave as much diversity in the stand as possible.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other Be on the lookout for anything that is obviously man-made or looks out of the ordinary and report anything you find.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>11</b>	<b>45038011-Cut</b>	24.2	42110 - Planted Red Pine	Poletimber Well	34	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Third row thin. Rows are good for the most part but there are some patches where they are hard to follow.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022

<b>15</b>	<b>45038015- Other</b>	16.9	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	8	Immature	Other	Other	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Release Oak  
Specs:

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

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>19</b>	<b>45038019-Cut</b>	18.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	71	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
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Prescription Thin stand to 70-80 BA. Remove mature aspen if scattered, try not to promote aspen regen in this stand.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other Treatment shape may vary, the northern part is likely to become an island. Be on the lookout for anything that is obviously man-made or  
Comment: looks out of the ordinary and report anything you find.

Site Condition

Proposed Start Date: 10/1 /2022



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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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20	45038020-Cut	37.7	42110 - Planted Red Pine	Sawtimber Well	62	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand to 120 BA

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Be on the lookout for anything that is obviously man-made or looks out of the ordinary and report anything you find.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

21	45038021-Other	32.7	4199 - Other Mixed Upland Deciduous	Sapling Well	8	Immature	Other	Other	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Release oak

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

23	45038023-Other	49.5	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	8	1-50	Other	Other	4199 - Other Mixed Upland Deciduous	Even-Aged	No
----	----------------	------	--	--------------	---	------	-------	-------	-------------------------------------	-----------	----

Prescription Release Oak

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

24	45038024-Cut	40.5	42110 - Planted Red Pine	Sawtimber Well	62	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
----	--------------	------	--------------------------	----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription Thin stand to 120 BA. Leave diversity where present unless removal is need for operations.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Be on the lookout for anything that is obviously man-made or looks out of the ordinary and report anything you find.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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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31	45038031-Cut	8.4	42110 - Planted Red Pine	Sawtimber Well	62	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
----	--------------	-----	--------------------------	----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription Thin to 120 BA. Leave diversity where present unless removal is needed for operations.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Be on the lookout for anything that is obviously man-made or looks out of the ordinary and report anything you find.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

33	45038033-Plant	30.5	330 - Low-Density Trees	Nonstocked	0	Unspecified	Planting	Initial Plant	42110 - Planted Red Pine	Even-Aged	No
----	----------------	------	-------------------------	------------	---	-------------	----------	---------------	--------------------------	-----------	----

Prescription

Specs:

Next Step Monitoring, Herbicide Use; Pesticide, Skidder - Release; SitePrep, Roller Chopping; Monitoring, Artificial Regen(1yr); ; Monitoring,

Treatments: Artificial Regen(3yr)

Acceptable Fully stocked red pine.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

38	45038038-Cut	62.3	42210 - Natural Red Pine	Sawtimber Well	73	111-140	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
----	--------------	------	--------------------------	----------------	----	---------	---------	--------------------------	---------------------------------------	----------	----

Prescription Cut all trees down to 2". Mark 10-20 BA of red pine, white pine and oak to be left during the harvest. Leave a retention patch in the area of the ski trail.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory); SitePrep, Roller Chopping; SitePrep, Scarification

Treatments:

Acceptable Acceptable regen includes aspen, maple, pine, birch, oak, fir, and spruce.

Regen:

Other Buffer hawk nests as necessary.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

38	45038038-Cutx	90.9	42210 - Natural Red Pine	Sawtimber Well	73	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
----	---------------	------	--------------------------	----------------	----	---------	---------	--------------	-------------------------	-----------	----

Prescription Mark this stand for a thinning, leaving 100-120 BA Focus on retaining the most vigorous trees. It is okay to remove white pine and oak in this stand, leave a few for diversity.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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>51 45038051-Cut</b>	15.2	4111 - S.Maple, Hard Mast Association	Sawtimber Well	71	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to 70-80 BA. Do not cut oak unless it shows signs of decline.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>52 45038052-Monitor</b>	31.9	4123 - Red Oak	Sawtimber Medium	86	1-50	Monitoring	Natural Regen (Re-Inventory)	4123 - Red Oak	Uneven-Aged	No
<p><u>Prescription</u> regen check as per the work instructions</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regeneration is maple, cherry, beech, oak, paper and yellow birch, basswood, aspen and ironwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>62 45038062-Cut</b>	21.7	4199 - Other Mixed Upland Deciduous	Sawtimber Well	71	81-110	Harvest	Seed Tree with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Mark 10-30 BA of oak and pine to be left where it is present. Some areas may look more like a clearcut if there is no oak or pine in that area. Leave the area between the snowmobile trail and the road in the SW corner as retention</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regen includes aspen, maple, birch, oak, pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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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>63 45038063-Cut</b>	14.7	42210 - Natural Red Pine	Sawtimber Well	88	111-140	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Mark 10-20 BA of pine and oak to be left as seed trees. Cut all trees other trees down to 2" in DBH. If nest is inactive then buffer by 1 chain which will serve as retention for this treatment. If found to be active then work with WLD to adjust treatment.</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 is a mix of pine, aspen, maple, oak, spruce, fir and birch</p> <p><u>Other Comment:</u> There was a hawk nest to the SW last year of entry, need to determine if it is still active and if it will affect this stand. During the inventory process this nest was inactive and no hawk was found in the area. Need to continue to inspect the site before and during sale prep to determine if changes are needed for this treatment.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>76 45038076-Cut</b>	3.9	4199 - Other Mixed Upland Deciduous	Poletimber Medium	65	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Cut all trees down to 2" in DBH. Do not cut oak, white pine or over sized red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, spruce, pine, maple and oak.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Total Treatment Acreage Proposed: 786.1**

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 38

Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2I	5B	5C	5E
513	486	26	0	Aspen	26			
8	8	0	0	Herbaceous Openland				
66	66	0	0	Jack Pine				
66	66	0	0	Low-Density Trees				
271	237	31	3	Mixed Upland Deciduous			31	3
80	58	21	0	Natural Mixed Pines			21	
177	53	121	4	Northern Hardwood	121			4
55	40	16	0	Oak		16		
591	546	42	3	Red Pine	39		3	3
48	48	0	0	Sand, Soil				
110	110	0	0	Upland Mixed Forest				
7	7	0	0	Water				
58	58	0	0	White Pine				
2,049	1,783	257	10	Total Forested Acres	186	16	55	10
	87%	13%	0%	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	Available	2I: Survey needed	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	2I: Survey needed	121	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Leave areas of unmarked in this treatment for retention, these should be available for harvest next time around. Size and position is likely to change.							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 38

Year of Entry: 2023

4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manage this portion of the stand with the adjacent pine west of the road.							
5	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was cut with red oak retained that we do not plan on cutting.							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut in 10 years, still smaller diameters							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

**Sault Ste. Marie Mgt. Unit**

**Josh Brinks : Examiner**

**Compartment: 38**

**Year of Entry: 2023**

10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention for adjacent treatment							
11	<b>Available</b>	<b>2I: Survey needed</b>	15	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
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**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 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
1	4139 - Aspen, Mixed Deciduous	Poletimber Well	9.4	71	81-110	N/A	Pocket of mixed timber, the canopy is mostly aspen and red maple. The aspen is starting to fall out of the stand and should be managed.																																																								
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2	42110 - Planted Red Pine	Sawtimber Well	70.0	62	141-170	N/A	A majority of this stand was first thinned in 1995. There is a portion of the stand on the west side of the road in the middle of the stand that was first thinned in 2004. These two stand have since been merged together and were last thinned in 2014 as part of Prison Pine. For the most part the understory is open except around the edges of the stand where hardwood brush is starting to creep in.																																																								
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3	330 - Low-Density Trees	Nonstocked	6.4			No	Grass opening is slowly filling in with Jack Pine.																																																								
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5	42110 - Planted Red Pine	Sawtimber Well	21.2	60	141-170	N/A	First thinned in 1995. Last thinned in 2014 as part of Prison Pine. The west part of the stand has less BA than the east. The southern part of the stand is quite brushy with hardwood regen.																																																								
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6	4130 - Aspen	Poletimber Well	21.9	34	51-80	N/A	Aspen is poor quality probably due to the sandy soil. Sugar maple is very thick in the understory. There is scattered pine left during the harvest. Look at this stand to cut in 10-20 years.																																																								
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7	4136 - Aspen, Mixed Conifer	Sawtimber Well	26.2	71	111-140	N/A	Stand of mature aspen, jack pine and spruce. Most of the Jack pine is found along the north and east boundary of the stand. The aspen is over mature and should be managed soon.																																																																											
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8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.2	71	111-140	N/A	Stand of small log sized hardwood. A mix of both sugar maple and red maple. Poorer quality hardwood.																																																																											
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9	4111 - S.Maple, Hard Mast Association	Sawtimber Well	126.5	71	111-140	N/A	Pretty nice hardwood stand. Pockets of pole size timber mixed in with the log trees. Ironwood and sugar maple dominate the understory. The stand is more mixed along the boundaries.																																																																											
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10	42110 - Planted Red Pine	Sawtimber Well	23.5	61	141-170	N/A	Stand thinned in 2005. Stand in good shape. There are some areas mixed with white pine mostly south of the road.																																																																											
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11	42110 - Planted Red Pine	Poletimber Well	24.2	34	141-170	N/A	Stand of decent red pine that is now 3-4 sticks tall. The rows are fairly good running east and west but there are some patches of thick pine where the rows are hard to follow.																																																																											
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12	4130 - Aspen	Poletimber Well	4.6	42	81-110	N/A	Nice aspen regeneration within the stand. OI notes say stand was cut in 1980.																																																																				
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13	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	31.2	42	1-50	N/A	Old seed tree cut (cut in 1980) with clumps of large white pine left here and there. Regeneration is nice and consists of paper birch, aspen and maple.																																																																				
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14	42200 - Natural White Pine	Sawtimber Poor	18.0	61	1-50	N/A	Budworm Buffet sale (014-10-01). Stand was cut in May 2011. White pine was left as residual. Regeneration is mostly aspen with maple and oak. Lots of bent over trees from the ice storm in the winter of 2020.																																																																				
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15	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	16.9	8	Immature	N/A	Stand was cut in the spring of 2014. Some large white and red pine along with all oak were left behind. Regen is doing good and is mostly red maple and aspen but there is some oak and white pine mixed in.																																																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>1</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>46</td> <td>Sapling</td> <td>1</td> <td>8</td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Log</td> <td>16</td> <td>84</td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>3</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	1	Log	14		Paper Birch	5	Sapling	1		White Pine	10	Log/Pole	12		Red Maple	46	Sapling	1	8	Quaking Aspen	10	Sapling	1		Red Pine	10	Log	16	84	Red Oak	5	Sapling	1		Sugar Maple	3	Sapling	1		Bigtooth Aspen	10	Sapling	1		<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>Balsam Fir</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Hazelnut (Spp.)</td> <td>Full</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	Sapling	Hazelnut (Spp.)	Full	Variable	Tall Shrub	White Pine	Low	< 5 feet	Sapling						
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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>16</b>	4133 - Aspen, Mixed Pine	Sapling Well	31.8	29	1-50	N/A	Cut in 1993. Stand consists of a shelterwood. Scattered red pine, white pine, and sapling sized aspen, red maple, and oak. Stand is filling in nicely. Some of the oak regeneration is very nice. There is some sign of ice damage from the storm in winter of 2020.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	52	Sapling	3	29
White Pine	5	Log	14	
White Pine	5	Sapling	4	
Red Oak	5	Sapling	2	
Paper Birch	5	Sapling	2	
Red Maple	8	Sapling	2	
Red Pine	20	Log	14	78

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Red Oak	Low	Variable	Sapling
Hazelnut (Spp.)	Medium	Variable	Tall Shrub
Red Maple	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Bigtooth Aspen	Low	Variable	Sapling

<b>17</b>	413 - Aspen	Sapling Well	3.1	32	51-80	N/A	Stand of large sapling and small pole sized aspen.
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<b>18</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	31.1	73	111-140	N/A	This stand is a mix of larger red and white pine with aspen and red maple. The red maple is smaller in diameter but the aspen is reaching the end of its life.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	2	Log/Pole	12	
White Pine	20	Log/Pole	13	73
Paper Birch	5	Log/Pole	10	
White Spruce	2	Log/Pole	10	
Sugar Maple	5	Pole	6	
Quaking Aspen	15	Pole	8	
Red Pine	1	Log	15	
Red Maple	43	Pole/Log	9	73
Balsam Fir	2	Pole/Sapling	5	
Bigtooth Aspen	5	Log/Pole	13	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling
Ironwood	Low	Variable	Sapling
Red Oak	Trace	5 - 10 feet	Sapling
Hazelnut (Spp.)	High	Variable	Tall Shrub

<b>19</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	18.4	71	81-110	N/A	Overall stand quality is poorer with small diameter hardwood and low basal area. A good part of the stand is on a pretty good slope. The canopy is full and would benefit from a thinning.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Log	8	
White Pine	2	XLog/Log	18	
Sugar Maple	67	Log/Pole	10	71
Quaking Aspen	4	Log/Pole	10	
Red Oak	2	Log	12	
Bigtooth Aspen	2	Log	14	
Paper Birch	2	Log	10	
Yellow Birch	1	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	Variable	Sapling
Sugar Maple	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Hazelnut (Spp.)	Medium	Variable	Tall Shrub
White Pine	Low	Variable	Sapling

<b>20</b>	42110 - Planted Red Pine	Sawtimber Well	40.5	62	171-200	N/A	First thin in 1995. Second thin in 2014 as part of Prison Pine. Very nice red pine stand. There are some scattered oak and aspen in the overstory. The south part has a brushy understorey.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Log/Pole	12	62

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Red Oak	Trace	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>21</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	32.7	8	Immature	N/A	Stand was cut in the spring of 2014. Some red and white pine were left along with all oak. There is a decent amount of oak regen in this stand that is close to being above the deer. There was more overstory retention in this stand than in the adjacent stands.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		15	Sapling	1	8	Hazelnut (Spp.)		High	Variable	Tall Shrub	
White Pine		5	Sapling	2							
Red Maple		20	Sapling	1	8						
Red Oak		5	Log	10							
Bigtooth Aspen		20	Sapling	1	8						
Paper Birch		5	Sapling	1							
Red Pine		5	Log	12	68						
Red Oak		15	Sapling	1							
White Pine		10	Log	12							

<b>22</b>	4130 - Aspen	Poletimber Well	7.2	45	81-110	N/A	Thick stand of aspen poles with a few scattered oak and sugar maple here and there. This stand has sustained a great deal of damage from the ice storm in the winter of 2020.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		89	Pole/Sap/Log	7	45	Ironwood		Low	Variable	Sapling	
Balsam Fir		2	Pole	5		Quaking Aspen		Low	Variable	Sapling	
Sugar Maple		5	Pole/Sap/Log	5		Sugar Maple		High	Variable	Sapling	
Yellow Birch		2	Pole/Log	9		Hazelnut (Spp.)		Low	5 - 10 feet	Tall Shrub	
Red Oak		2	Log	16		Red Oak		Trace	< 5 feet	Sapling	

<b>23</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	49.5	8	1-50	N/A	Stand was cut in spring of 2014. Large red and white pine were left along with all oak. Lots of good maple, oak and aspen regeneration. most regen is more than 6' tall.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		20	Sapling	1		Hazelnut (Spp.)		Medium	Variable	Tall Shrub	
Bigtooth Aspen		20	Sapling	1		White Pine		Trace	< 5 feet	Sapling	
Red Oak		2	Log	13							
Red Maple		20	Sapling	1	8						
White Pine		5	Sapling	1							
White Pine		10	Log	10							
Paper Birch		10	Sapling	1							
Red Pine		8	Log	15	77						
Sugar Maple		5	Sapling	1							

<b>24</b>	42110 - Planted Red Pine	Sawtimber Well	42.4	62	141-170	N/A	Stand third row thinned in 2005. Some oak, paper birch, aspen and white pine scattered in the over story. For the most part the overstory is open but there are patches of thick understory that is starting to fill in.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		100	Log/Pole	10	62	Sugar Maple		Medium	5 - 10 feet	Sapling	
						Balsam Fir		Low	5 - 10 feet	Sapling	
						Red Oak		Medium	5 - 10 feet	Sapling	
						Hazelnut (Spp.)		Low	Variable	Tall Shrub	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>25</b>	4130 - Aspen	Sapling Well	28.2	17	Immature	N/A	Regeneration is mostly big tooth aspen. Stand consists of patchy regeneration with a sapling oak or red maple here and there. There is evidence of deer browse on the oak regen. There are some patches with less aspen that have oak and pine coming in that are less than 3' tall. Some scattered overstory oak and pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		5	Sapling	2		Hazelnut (Spp.)		Medium	Variable	Tall Shrub	
Red Pine		2	Sapling	3		Red Oak		Low	Variable	Sapling	
Bigtooth Aspen		75	Sapling	2	17	Red Maple		Low	Variable	Sapling	
Red Oak		9	Sapling	1		Red Pine		Low	5 - 10 feet	Sapling	
Red Oak		5	Log	12	69	White Pine		Low	< 5 feet	Sapling	
Red Pine		2	Log	14							
White Pine		2	Log	15							

<b>26</b>	500 - Water	Nonstocked	6.7			No	Flooded beaver pond
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<b>27</b>	4133 - Aspen, Mixed Pine	Poletimber Well	64.5	39	51-80	N/A	Areas that were totally clearcut came back to nice aspen regeneration. Areas where pine was left came back to a mix of maple and aspen. Overall stand is healthy and looks good. Northwest corner of stand contains some very nice sugar maple within the understory.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		50	Pole/Sapling	5	39	Quaking Aspen		Medium	Variable	Sapling	
Quaking Aspen		20	Pole/Sapling	5		Sugar Maple		Medium	Variable	Sapling	
Paper Birch		3	Sapling	3		White Pine		Low	Variable	Pole	
Red Pine		5	Log	15	88	Red Maple		Low	Variable	Sapling	
Red Oak		2	Log/Pole	10		Hazelnut (Spp.)		Medium	Variable	Tall Shrub	
White Pine		20	Log	15	72	Paper Birch		Low	Variable	Pole	
						Red Oak		Low	5 - 10 feet	Sapling	

<b>28</b>	42200 - Natural White Pine	Sawtimber Poor	20.0	61	1-50	N/A	Budworm Buffet (014-10-01). Stand was cut in May 2011. Residual white pine and red oak left within the stand. This has created a two aged stand with mostly white pine over a thick understory of maple, oak and aspen. There is a fair amount of damage from the ice storm in the winter of 2020				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		95	Log	14	61	Paper Birch		Trace	10 - 20 feet	Sapling	
Red Oak		5	Log	12		Quaking Aspen		High	10 - 20 feet	Sapling	
						Red Oak		Medium	5 - 10 feet	Sapling	
						Balsam Fir		Low	< 5 feet	Sapling	
						Hazelnut (Spp.)		Medium	Variable	Tall Shrub	
						Ironwood		Medium	10 - 20 feet	Sapling	
						Sugar Maple		High	10 - 20 feet	Sapling	
						White Spruce		Low	< 5 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**29** 42201 - Natural White Pine, Mixed Deciduous Sawtimber Poor 11.2 61 1-50 N/A An old opening that is slowly filling in with a mix of conifer and deciduous.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	27	Pole	6		Red Pine	Low	Variable	Sapling
White Pine	65	Log/Pole	10	61	White Pine	Low	Variable	Sapling
Red Maple	3	Pole/Sapling	5		Red Oak	Trace	5 - 10 feet	Sapling
Paper Birch	5	Pole	6		Quaking Aspen	Low	Variable	Sapling
					Balsam Fir	Low	5 - 10 feet	Sapling
					Red Maple	Low	Variable	Sapling
					Hazelnut (Spp.)	Medium	Variable	Tall Shrub

**30** 42110 - Planted Red Pine Poletimber Well 18.1 61 111-140 N/A Stand was cut in the spring of 2014 as part of Little Rascal Red pine. The rows were difficult to follow in places so the stand looks more thin than usual. The stand is almost to a log size. There is significant damage from the ice storm in 2020.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	1	Pole/Log	9		Red Oak	Low	< 5 feet	Sapling
Red Pine	99	Pole/Log	9	61	White Pine	Low	Variable	Sapling
					Sugar Maple	Low	Variable	Sapling
					Hazelnut (Spp.)	Low	Variable	Tall Shrub

**31** 42110 - Planted Red Pine Sawtimber Well 9.2 62 141-170 N/A Stand third row thinned in 2005. Stand is in good shape. A little brushy in areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	11	62	Red Oak	Trace	5 - 10 feet	Sapling
					Sugar Maple	Low	5 - 10 feet	Sapling
					Balsam Fir	Low	5 - 10 feet	Sapling
					Hazelnut (Spp.)	High	Variable	Tall Shrub

**32** 4139 - Aspen, Mixed Deciduous Sapling Well 16.9 17 Immature N/A Big tooth aspen regeneration is nice within the stand. There is a fair amount of oak regen mixed in along with patches of red and white pine. Most regen is around 10' tall. Overstory is mostly white pine, oak and red pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	48	Sapling	1	17	Bigtooth Aspen	Medium	Variable	Sapling
Paper Birch	2	Sapling	1		Red Oak	Low	Variable	Sapling
White Pine	5	Sapling	1		Hazelnut (Spp.)	Low	Variable	Tall Shrub
Red Maple	20	Sapling	1		Red Maple	Low	Variable	Sapling
White Pine	5	Log	14					
Red Oak	15	Log/Pole	10	69				
Red Pine	5	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>33</b>	330 - Low-Density Trees	Nonstocked	30.5	0	Unspecified	4211 - Planted Red Pine	Stand was clearcut in spring of 2014 then herbicide was used to control advanced regeneration in the summer of 2014. There was heavy regen of oak and maple along with some aspen. A burn was prescribed to reduce slash and further help control the regeneration. It never happened. It was sprayed again in Aug 2016, trenched in Sept 2016, and planted in spring of 2017. 1 year regen survey was complete in May 2018 with 753 TPA of red pine. 3 year regen survey was completed in October 2019 with 32% mortality and 36% free to grow. Live trees showed signs of damage from heavy snow this past winter. It was determined that we would restart this stand. It was re trenched in the summer of 2020. Site prep sprayed in September 2021				
								Sub-Canopy Species	Density	Avg. Height	Size
								Balsam Fir	Trace	< 5 feet	Sapling
								Bigtooth Aspen	Low	10 - 20 feet	Sapling
								Pin Cherry	Low	5 - 10 feet	Sapling
								Red Maple	Medium	5 - 10 feet	Sapling
								White Pine	Trace	5 - 10 feet	Sapling
								Red Oak	Medium	5 - 10 feet	Sapling
Red Pine	Medium	< 5 feet	Sapling								
							Stand is being restarted.				

<b>34</b>	710 - Sand, Soil	Nonstocked	47.6			No	pit under lease.
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<b>35</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	58.5	56	51-80	N/A	Stand is poorer quality with a mix of white pine and jack pine. There are pockets of closed canopy with 100+ BA and other areas with open canopy. Some patches of small diameter aspen. The jack pine is in decline.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log/Pole	12		Jack Pine	Low	Variable	Sapling
Red Pine	3	Log	14		White Pine	Low	Variable	Sapling
Bigtooth Aspen	15	Pole	6		Red Oak	Low	5 - 10 feet	Sapling
Paper Birch	5	Pole	8		Hazelnut (Spp.)	Medium	Variable	Tall Shrub
Jack Pine	35	Pole/Log	9	56	Bigtooth Aspen	Low	Variable	Sapling
Red Maple	2	Pole	7		Red Maple	Medium	5 - 10 feet	Sapling
White Pine	30	Log/Pole	12	56				

<b>36</b>	4130 - Aspen	Poletimber Well	6.1	44	51-80	N/A	Stand that grew from the topsoil piles from when the gravel pit was put in. Multi-aged stand with both old clumps and young clumps of aspen. Stand is poor quality with a lot of trees dying and falling over.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	4	Pole	8		Red Oak	Low	5 - 10 feet	Sapling
Quaking Aspen	15	Pole/Sapling	6		White Pine	Low	5 - 10 feet	Sapling
Jack Pine	3	Pole	7		Bigtooth Aspen	Medium	Variable	Sapling
Paper Birch	20	Pole/Sapling	6		Red Pine	Low	5 - 10 feet	Sapling
White Pine	5	Pole/Log	8		Hazelnut (Spp.)	High	Variable	Tall Shrub
Bigtooth Aspen	51	Pole/Sap/Log	6	44				
White Spruce	2	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>37</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	10.6	28	1-50	N/A	Stand contains nice regeneration of a mix of species. There was some oak and scattered pine left when this was cut. Most of the regen is now large sapling size. There is quite a bit of damage from the ice storm of 2020.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		29	Sapling	3	28	Ironwood		High	Variable	Sapling
White Pine		1	Log	12		Sugar Maple		High	Variable	Sapling
Quaking Aspen		10	Sapling	2		Hazelnut (Spp.)		High	Variable	Tall Shrub
Paper Birch		5	Sapling/Pole	3		Red Oak		Low	Variable	Sapling
Sugar Maple		20	Sapling	2		Balsam Fir		Medium	< 5 feet	Sapling
Ironwood		5	Pole/Sapling	5		Bigtooth Aspen		High	Variable	Sapling
Red Oak		20	Log	12		White Spruce		Low	< 5 feet	Sapling
Red Oak		10	Sapling	3						

<b>38</b>	42210 - Natural Red Pine	Sawtimber Well	214.4	73	111-140	N/A	This is not a pure red pine stand, it has a mix of white pine and oak. Red pine is good quality. The BA and DBH is variable throughout the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		13	Pole	7		Red Oak		Low	Variable	Sapling
Red Oak		8	Pole	8		Balsam Fir		Low	Variable	Sapling
Red Pine		72	Log/Pole	13	73	Red Maple		Medium	Variable	Sapling
Paper Birch		3	Pole	7		Hazelnut (Spp.)		Medium	Variable	Tall Shrub
Jack Pine		2	Log/Pole	11		Red Pine		Low	Variable	Sapling
Bigtooth Aspen		2	Log	11		White Pine		Medium	Variable	Sapling

<b>39</b>	413 - Aspen	Poletimber Well	3.6	37	81-110	N/A	Small patch of aspen with a grass opening at the north end of the stand.
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<b>40</b>	42290 - Natural Mixed Pine	Sawtimber Well	9.7	59	111-140	N/A	Small strip of pine mixed with a few aspen and paper birch here and there. Stand slopes down towards gravel pit.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		35	Log	11	59	Quaking Aspen		Low	Variable	Sapling
White Spruce		15	Log/Pole	12		Balsam Fir		Medium	Variable	Sapling
Paper Birch		5	Pole	6		Ironwood		Medium	Variable	Sapling
Red Pine		25	Log	14	59	Paper Birch		Low	5 - 10 feet	Sapling
Quaking Aspen		10	Log/Pole	10		White Spruce		Medium	Variable	Sapling
Jack Pine		10	Pole	7		Serviceberry (Juneberry)		Trace	5 - 10 feet	Sapling
						Sugar Maple		Low	Variable	Sapling
						Hazelnut (Spp.)		Medium	Variable	Tall Shrub

<b>41</b>	330 - Low-Density Trees	Nonstocked	1.7			No	
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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>42</b>	42250 - Pine, Oak	Sawtimber Poor	11.4	97	1-50	N/A	Very poor soil and the trees show it. Trees are stunted and very low density, reindeer moss throughout the stand. Lots of pine saplings in the understory mixed with oak, maple and aspen.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		35	Log/Pole	10	97	Red Oak		Medium	Variable	Sapling	
White Pine		30	Log/Pole	12		Red Pine		Medium	Variable	Sapling	
Red Pine		35	Log/Pole	12	64	Red Maple		Low	Variable	Sapling	
						White Pine		Medium	Variable	Sapling	
						Paper Birch		Low	Variable	Sapling	
						Jack Pine		Low	5 - 10 feet	Sapling	
						Bigtooth Aspen		Low	Variable	Sapling	

<b>43</b>	4130 - Aspen	Sapling Well	38.9	17	Immature	N/A	Cut in 2005. Bigtooth aspen regeneration is nice within the stand. White birch has stump sprouted very nicely! Scattered overstory oak trees.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		5	Log/Pole	10	69	Hazelnut (Spp.)		Medium	Variable	Tall Shrub	
Bigtooth Aspen		64	Sapling	2	17	Red Oak		Low	Variable	Sapling	
Red Maple		4	Sapling	2		White Pine		Low	5 - 10 feet	Sapling	
White Pine		2	Log	13		Red Maple		Low	Variable	Sapling	
Paper Birch		25	Sapling	2		Balsam Fir		Trace	< 5 feet	Sapling	
						Bigtooth Aspen		Medium	Variable	Sapling	

<b>44</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	19.6	17	Immature	N/A	Stand was clearcut in 2005. Regen is doing great. It is mostly oak with red maple and aspen. A majority of the oak are above the deer now. Oak dominates the residual trees that were left during the harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		3	Log	15		Hazelnut (Spp.)		Low	Variable	Tall Shrub	
Red Pine		1	Sapling	1							
White Pine		10	Sapling	1							
Paper Birch		2	Sapling	1							
Red Oak		10	Log	12	69						
Red Oak		52	Sapling	1	17						
Bigtooth Aspen		10	Sapling	1							
White Pine		2	Log	15							

<b>45</b>	42110 - Planted Red Pine	Poletimber Well	17.2	61	111-140	N/A	Stand was cut in the spring of 2014 as part of Little Rascal Red pine. The rows were difficult to follow in places so the stand looks more thin than usual. The stand is almost to a log size. There is significant damage from the ice storm in 2020.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		100	Pole/Log	9	61	Red Oak		Low	< 5 feet	Sapling	
						Sugar Maple		Low	Variable	Sapling	
						Hazelnut (Spp.)		Low	Variable	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>46</b>	4130 - Aspen	Sapling Well	19.0	28	Immature	N/A	Stand contains a mix of aspen and conifer. Soils are droughty. Aspen regeneration is nicer in North half of stand. OI notes say the stand was previously jack pine. There is scattered log sized pine and oak.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		66	Sapling	3	28	White Pine		Low	Variable	Sapling	
Red Maple		5	Sapling	2		Red Maple		Low	Variable	Sapling	
White Pine		2	Sapling	2		Jack Pine		Low	Variable	Sapling	
Quaking Aspen		2	Sapling	2		Red Oak		Medium	Variable	Sapling	
Paper Birch		5	Sapling	2		Hazelnut (Spp.)		Medium	Variable	Tall Shrub	
Red Oak		5	Sapling	2		Bigtooth Aspen		Medium	Variable	Sapling	
Jack Pine		15	Sapling	4	28						

<b>47</b>	4310 - Pine, Oak Mix	Sawtimber Poor	109.6	71	1-50	N/A	Very xeric site. Overstory trees are stunted and poor quality. Some dead oak in stand. Bigtooth aspen regeneration is nice in the majority of stand. The overstory is oak, red pine, white pine, paper birch, aspen, jack pine, spruce and maple. Most of the regen is 2 inches or greater in diameter and 20' tall. On the fence between a log stand and a sapling stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		2	Pole	6		Red Oak		Medium	Variable	Sapling	
Jack Pine		2	Pole	9		Red Pine		Low	Variable	Sapling	
Red Pine		11	Pole	8		Paper Birch		Low	Variable	Sapling	
White Pine		30	Log/Pole	12	71	Hazelnut (Spp.)		Medium	Variable	Tall Shrub	
Red Maple		5	Pole/Log	9		Red Maple		Medium	Variable	Sapling	
Red Oak		48	Log/Pole	11	71	White Pine		Medium	Variable	Sapling	
White Spruce		2	Log/Pole	12		Bigtooth Aspen		High	Variable	Sapling	

<b>48</b>	4130 - Aspen	Sapling Medium	6.7	8	Immature	N/A	This stand was harvested in May of 2014. Some white pine and oak were retained. The stand is filling in nicely with aspen. There are patches with no aspen regen that contain a decent amount of white pine and oak regen that is less than 3' tall. I am guessing this will be fully stocked next time around.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		5	Sapling	1		White Pine		Medium	< 5 feet	Sapling	
Red Oak		15	Sapling	1		Hazelnut (Spp.)		Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		60	Sapling	1	8	Red Oak		Medium	< 5 feet	Sapling	
Red Maple		15	Sapling	1							
White Pine		5	Sapling	2							

<b>49</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	17.9	7	Immature	N/A	Stand was cut in May of 2015. Some pine and oak were retained during the harvest. Regen is a mix of aspen and red maple. There are some areas where regen is patchy but it is slowly filling in.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Ironwood		10	Sapling	1		Hazelnut (Spp.)		Medium	5 - 10 feet	Tall Shrub	
Red Pine		1	Log	15		Balsam Fir		Trace	< 5 feet	Sapling	
Red Maple		36	Sapling	1	7						
Paper Birch		5	Sapling	1							
Red Oak		1	Log	15							
Quaking Aspen		15	Sapling	1							
White Pine		2	Log/Pole	13							
Red Oak		15	Sapling	1							
Bigtooth Aspen		15	Sapling	1							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>50</b>	4130 - Aspen	Sapling Well	29.6	17	Immature	N/A	Bigtooth aspen regeneration is nice within 2/3-3/4 of the stand. There are some areas where there isn't much aspen regen instead it is slowly filling in with oak and pine regen that is currently less than 5' tall. Most overstory trees are oak. Lots of deer browse on the oak regen.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	5	Sapling	1		Red Oak	Medium		< 5 feet	Sapling
Red Oak	10	Log	13	69	White Pine	Medium		< 5 feet	Sapling
White Pine	2	Log	13		Hazelnut (Spp.)	Low		Variable	Tall Shrub
Red Maple	13	Sapling	1		Red Maple	Low		Variable	Sapling
Red Oak	5	Sapling	2		Red Pine	Low		5 - 10 feet	Sapling
Bigtooth Aspen	65	Sapling	1	17					

<b>51</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	15.2	71	111-140	N/A	Nice stand of younger hardwood. Some very nice sugar maple poles. Nice regeneration within some of the understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	60	Log/Pole	11	71	Sugar Maple	Medium		Variable	Sapling
Red Maple	25	Log/Pole	11		Ironwood	Low		5 - 10 feet	Sapling
Red Oak	15	Log	16		Balsam Fir	Low		< 5 feet	Sapling
					Red Oak	Low		5 - 10 feet	Sapling

<b>52</b>	4123 - Red Oak	Sawtimber Medium	31.5	86	1-50	N/A	Stand was cut in May of 2015 as part of Chain Link Mix. More open canopy of oak after the harvest.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	5	Log/Pole	10		White Pine	Low		Variable	Sapling
Red Oak	80	Log	15	86	Paper Birch	Low		5 - 10 feet	Sapling
White Pine	5	Log	14		Red Oak	Low		Variable	Sapling
Red Maple	10	Log	11		Red Maple	Medium		5 - 10 feet	Sapling
					Ironwood	Full		Variable	Sapling
					Sugar Maple	Low		Variable	Sapling
					Hazelnut (Spp.)	Medium		Variable	Tall Shrub

<b>53</b>	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	5.9	81	1-50	N/A	Old seed tree cut from 1983, looks like all pine and oak were left, what remains is thick aspen and maple regeneration underneath the residual. The regen is larger in size in the south end of the stand. The canopy is overstory trees are thicker at the north end of the stand and the regen there is smaller in size. Manage the aspen and maple.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	20	Log	14		Bigtooth Aspen	High		Variable	Sapling
Sugar Maple	10	Log	16		Red Maple	High		10 - 20 feet	Sapling
Bigtooth Aspen	10	Log	13		Serviceberry (Juneberry)	Trace		Variable	Sapling
White Pine	60	Log/Pole	12	81	Sugar Maple	Medium		10 - 20 feet	Sapling
					Hazelnut (Spp.)	Low		Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**54** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 10.6 46 51-80 N/A Stand with a mix of pole size trees. Oak regeneration in spots is very nice. Hold this stand for 10 years.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	8	Log/Pole	10		White Pine	Medium	Variable	Sapling
Red Maple	30	Pole/Log	8	46	Red Oak	Medium	Variable	Sapling
White Pine	20	Log/Pole	10		Sugar Maple	Medium	Variable	Sapling
Paper Birch	22	Pole/Log	8	46	Hazelnut (Spp.)	High	Variable	Tall Shrub
Red Oak	20	Pole	9					

**56** 330 - Low-Density Trees Nonstocked 10.4 No

**57** 4139 - Aspen, Mixed Deciduous Sapling Well 11.6 8 Immature N/A Stand was cut in May of 2014. Some pine and oak were retained during the harvest. Regen is doing quite nicely. It is filling in a bit slower in areas with more oak retained during the harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Sapling	1		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	40	Sapling	1	8	Red Oak	Low	< 5 feet	Sapling
Red Oak	5	Log	14		Red Maple	Medium	< 5 feet	Sapling
Red Oak	10	Sapling	1					
Red Maple	38	Sapling	1					
White Pine	2	Log/Pole	12					

**58** 42120 - Planted Jack Pine Sapling Well 58.2 10 Immature N/A FTP # C45-174. Planted Jack Pine in the spring of 2012. Jack pine is doing very well and approaching 8' tall. NW part of the stand is a mix of oak and Jack pine regen.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	
Paper Birch	3	Sapling	1	
Jack Pine	85	Sapling	2	10
Quaking Aspen	5	Sapling	1	
Red Oak	2	Log	13	

**60** 42110 - Planted Red Pine Poletimber Well 92.8 62 81-110 N/A Sale 003-13, thinned in the fall of 2014. Decent amount of oak regen in places. Some damage from the ice storm. Because the rows were non-existent when this was cut this stand has a much lower BA than normal

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	94	Pole/Log	9	62	Red Oak	Medium	5 - 10 feet	Sapling
Red Oak	2	Log/Pole	10		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	2	Pole	6		Hazelnut (Spp.)	Low	Variable	Tall Shrub
Paper Birch	2	Pole	6		Sugar Maple	Medium	Variable	Sapling
					Paper Birch	Trace	5 - 10 feet	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>61</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	72.3	31	51-80	N/A	Old white spruce plantation that has failed. A mix of deciduous and conifer has grown in it's place. Most of the spruce and jack pine in this stand id dead or dying. The stand is now dominated by aspen, maple, oak, and paper birch that is small pole size.. There is not enough spruce left to make it worth going after. The stand should be left alone until the aspen is mature.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		10	Pole	7		Ironwood		Low	Variable	Sapling	
Red Pine		2	Log	14		Red Oak		High	Variable	Sapling	
Red Maple		16	Sapling	3	31	White Spruce		Low	Variable	Sapling	
White Spruce		5	Pole	6		Sugar Maple		Low	Variable	Sapling	
Sugar Maple		2	Sapling	3		Hazelnut (Spp.)		Medium	Variable	Tall Shrub	
Bigtooth Aspen		40	Pole/Sapling	5	31						
Jack Pine		5	Pole	8							
Red Oak		15	Pole/Sapling	5							
White Pine		5	Pole/Log/Sap	8							

<b>62</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	24.9	71	81-110	N/A	This stand is a mix with areas of dominated by oak and other areas dominated by paper birch and aspen. The birch and aspen are starting to die out and should be harvested soon.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		25	Log/Pole	12	71	Ironwood		Low	5 - 10 feet	Sapling	
Red Oak		20	Log	16		Red Maple		Low	5 - 10 feet	Sapling	
Red Pine		2	Log	14		Balsam Fir		Low	< 5 feet	Sapling	
Red Maple		23	Log/Pole	11		White Pine		Low	Variable	Sapling	
White Pine		10	Log/Pole	13		Red Oak		Low	5 - 10 feet	Sapling	
Paper Birch		20	Log/Pole	12		Hazelnut (Spp.)		Low	5 - 10 feet	Tall Shrub	

<b>63</b>	42210 - Natural Red Pine	Sawtimber Well	17.8	88	111-140	N/A	Old stand of red pine mixed with a few other species. The red pine is reaching the upper end of merchantability.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		4	Log/Pole	12		Red Pine		Medium	Variable	Pole	
Paper Birch		2	Pole	7		White Pine		Medium	Variable	Sapling	
Jack Pine		2	Pole	9		Red Maple		Low	Variable	Sapling	
Red Oak		2	Pole	7		Hazelnut (Spp.)		Low	Variable	Tall Shrub	
Red Pine		88	Log	13	88	Red Oak		Low	Variable	Pole	
Bigtooth Aspen		2	Pole	8							

<b>64</b>	330 - Low-Density Trees	Nonstocked	14.3			No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**65** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 11.4 37 1-50 N/A

An old shelterwood cut that is regenerating back nicely to a red maple, aspen, white birch mix. On the edge of becoming a pole stand. Mature red and white pine scattered throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Sapling	3		Red Maple	Medium	Variable	Sapling
White Pine	5	Pole/Sapling	6		Red Pine	Low	5 - 10 feet	Sapling
Red Maple	15	Sapling	2		Paper Birch	Medium	Variable	Sapling
Red Pine	15	Log	12	88	White Pine	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	20	Sapling	1	37	Hazelnut (Spp.)	Low	Variable	Tall Shrub
Paper Birch	40	Sapling	3	37	Bigtooth Aspen	Medium	Variable	Sapling
					Red Oak	Low	5 - 10 feet	Sapling

**66** 310 - Herbaceous Openland Nonstocked 2.7 No

**67** 4123 - Red Oak Sawtimber Medium 8.0 71 1-50 N/A

Stand of very scrubby red oak. Dead oak scattered throughout the stand. Small red pine and white pine within the understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	2	Log	12		Red Oak	Medium	Variable	Sapling
White Pine	2	Log/Pole	10		Red Pine	Low	Variable	Sapling
Red Oak	96	Log/Pole	11	71	White Pine	Medium	Variable	Sapling
					Hazelnut (Spp.)	Low	Variable	Tall Shrub

**68** 4131 - Aspen, Oak Poletimber Medium 10.3 43 N/A

Was originally typed as a grass opening. Stand consists of clumps of oak, red maple, and aspen with a couple of grass openings still mixed within it. Some of the clumps are mature with a thick sapling layer.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		White Pine	Low	Variable	Sapling
Quaking Aspen	50	Pole	5	43	Balsam Fir	Low	Variable	Sapling
Red Oak	40	Pole	7		Red Oak	Low	Variable	Sapling
					Jack Pine	Medium	Variable	Sapling
					Quaking Aspen	Medium	Variable	Sapling
					Choke Cherry	Low	Variable	Tall Shrub

**69** 4199 - Other Mixed Upland Deciduous Sapling Medium 10.5 11 Immature N/A

Budworm Buffet timber sale (45-014-10-01). Stand was cut in May 2011. Maple, aspen, and red oak will fill in. Scattered pine were left during the harvest. There is a strip of more advanced regen on the side of the hill. The southern part of the stand is taking longer to regenerate and currently looks non forested with scattered regen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	38	Sapling/Pole	3	11	Bigtooth Aspen	Low	Variable	Sapling
Red Oak	15	Sapling/Pole	4		Red Maple	Low	Variable	Sapling
Paper Birch	15	Sapling/Pole	3		White Spruce	Trace	< 5 feet	Sapling
White Pine	5	Log	13		Red Pine	Trace	< 5 feet	Sapling
Red Maple	25	Sapling	3		Red Oak	Low	< 5 feet	Sapling
Red Pine	2	Log	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
70	4123 - Red Oak	Sawtimber Poor	15.6	91	1-50	N/A	This stand was cut in the spring of 2019 (Chain Link Oak). Scattered log size oak and maple were left. Regen is mostly red maple, aspen and oak. Next inventory this will be a sapling stand as there is plenty of very good regen just not enough of it tall enough to call a sapling stand.																																																													
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72	42220 - Natural Jack Pine	Sapling Well	8.0	18	Immature	N/A	Pretty decent stand of jack pine with pockets of aspen.																																																													
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73	4130 - Aspen	Sapling Well	34.6	18	Immature	N/A	Nice aspen regeneration within the stand. A few black cherry saplings here and there as well. The stand received some ice damage from the storm in 2020 but will be okay in the long run.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**75** 310 - Herbaceous Openland Nonstocked 1.3 0 No

**76** 4199 - Other Mixed Upland Deciduous Poletimber Medium 3.9 65 51-80 N/A

This looks like it was likely a failed spruce plantation. The white spruce that remains in this stand is dying.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	2	Log	13		Bigtooth Aspen	Low	Variable	Sapling
Red Maple	15	Pole	8		Red Pine	Trace	< 5 feet	Sapling
Paper Birch	25	Pole	7		Red Oak	Low	< 5 feet	Sapling
Red Oak	15	Log/Pole	11		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Spruce	10	Pole	8		Red Maple	Low	Variable	Sapling
Bigtooth Aspen	28	Pole	8	65	White Spruce	Trace	< 5 feet	Sapling
Jack Pine	5	Pole	8					

**77** 4136 - Aspen, Mixed Conifer Sapling Well 2.8 32 Immature N/A Part of stand in adjacent compartment

**78** 330 - Low-Density Trees Nonstocked 3.1 No