

Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45129

Entry Year: 2027

Acreage: 1,515

County: Mackinac

Management Area: Seney Lake Plain

Stand Examiner: Christian Gabler

Legal Description:

T44N-R7W Sections 1, 12, & 13, Hendricks Township

Identified Planning Goals:

Compartment 45129 is located directly northeast of Fiborn Quarry. The east boundary is the Hiawatha National Forest, and the north boundary is the Chippewa/Mackinac County line. Adjacent to the south boundary is owned by Graymont LLC. The cover types across the compartment vary from lowland to upland types. Majority of the compartment has a cover type of cedar/spruce lowlands or mixed conifer, both upland and lowland. There are ridges and level to rolling uplands throughout carrying mixed conifer and pine cover types. Past management has focused on stands that provide adequate access. This entry, treatment prescriptions are shelterwood harvests in mature mixed conifer stands as well as clearcuts.

Soil and topography:

The predominant topography of the compartment is lowland consisting of bog and swamp conifer. The predominant soil in these types are Markey-Carbondale Muck and Histosols and Aquents (ponded). There are ridges scattered throughout the lowland and some higher areas of level to rolling land that is occupied by aspen, northern hardwood, and pine types. The soils in these areas include Spot-Finch complex, Paquin-Finch sands, Pullup sand, and Wallace sands.

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

Section 24 had 320 acres that was a detached piece of compartment 45129. The State of Michigan sold 160 of those acres to Graymont LLC in 2017 which they use for mineral extraction. The compartment was realigned so that the remaining acres would be combined with compartment 45128. The Hiawatha National Forest is along the entirety of the east boundary. The west is State of Michigan forest land. The north boundary is the FMU line between Naubinway and Newberry Management Units.

Unique Natural Features:

MNFI has in the past had noted great potential for occurrences of numerous flora and fauna species of concern within and around the compartment. This would include species of concern per MNFI notes.

Archeological, Historical, and Cultural Features:

There are karst features (caves and sinkholes) to the SW of the compartment. Fiborn Junction is located at the intersection of Fiborn Quarry Road (North end) and Canadian National Railroad. This was part of access to the Fiborn quarry in the past.

Special Management Designations or Considerations:

The Canadian National railroad runs SE/NW through the northern portion of the compartment in section 1. Any treatments (none this entry) north of the tracks require special permission and considerations to cross railroad.

Watershed and Fisheries Considerations:

Fisheries Concerns: The northern portion of the compartment drains to Quinn Creek of the Hendrie River watershed. Quinn Creek is not a designated trout stream but is classified as a cold-water transitional stream (mean July temperatures 63.5-67.1°F), meaning it can offer summer refuge habitat for cold water species. Standard BMP's should apply when working adjacent to surface water and wetland areas.

Wildlife Habitat Considerations:

This compartment is part of the Seney Lake Plain Management Area where featured wildlife species include American woodcock, Blackburnian warbler, American marten, red crossbill, spruce grouse, wood thrush, ruffed grouse, snowshoe hare, white-tailed deer, black bear, sharp-tailed grouse, and black-backed woodpecker. This is a diverse compartment composed of mixed forest, lowland and upland conifers, and some hardwood and aspen scattered throughout as well as some openings where tree density is low. Lowland conifers including cedar swamp as well as wetland are dominant in the southern and eastern part of the compartment. The northwestern portion contains mostly upland stands with aspen and hardwoods with conifers including white pine mixed in. Most of the compartment is part of a deer wintering complex. Harvests in wintering complex should generally take place during the winter months to benefit deer. Closed canopy conifer cover, especially cedar, should be maintained in wintering complex to provide cover for wintering deer. Mature trees and mesic conifers should be maintained to benefit Blackburnian warbler, marten, and other species. Black bear will benefit from

the contiguous forest habitat and the diversity present. Wetlands will be protected.

Mineral Resource and Development Concerns and/or Restrictions

Sections 1 & 11-13, T44N R7W, Mackinac County No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for economic production of metallic minerals in this area. The closest known active aggregate operations are four miles southwest of the compartment. Bedrock may be near the surface in the compartment, consisting mostly of shale and some dolostone, nothing of known commercial value. The former Fiborn Quarry is less than one mile southwest of the compartment, but the high-purity limestone exposed there may pinch out to the north before reaching the compartment. The compartment consists primarily of low wetlands, which would inhibit surface mining, but there may be some potential for sand & gravel development on the uplands in Sec 1.

Vehicle Access:

In general access is very poor to the interior of the compartment. The northern part is accessed from state land via Fiborn Quarry Road (County/dirt). Access from the south to the north portion of the compartment would be through Graymont LLC holdings and would require Graymonts permission. Access has been granted in the past but rescinded to at least one logger. Access to stands in sec. 13 is through private property (Wilwin). Access has been granted in the past. The Canadian National Railroad cuts off half of section 1 off from management activities.

Survey Needs:

None needed this entry

Recreational Facilities and Opportunities:

Hunting and Trapping opportunities exist throughout the compartment.

Fire Protection:

Upland areas of grass, brush, and pine provide the greatest risk for fire in this compartment. Access is generally poor within this compartment and any fire within the interior of the northern portion could pose access difficulties. The areas of heavy soil will increase mop-up difficulties in the event of a fire. Anguilm Creek and the south branch of the Hendrie River provide the closest opportunities for water source. There are numerous seasonal and intermittent wet areas scattered all throughout that may provide water per conditions.

Additional Compartment Information:

The following reports from the Inventory are attached:

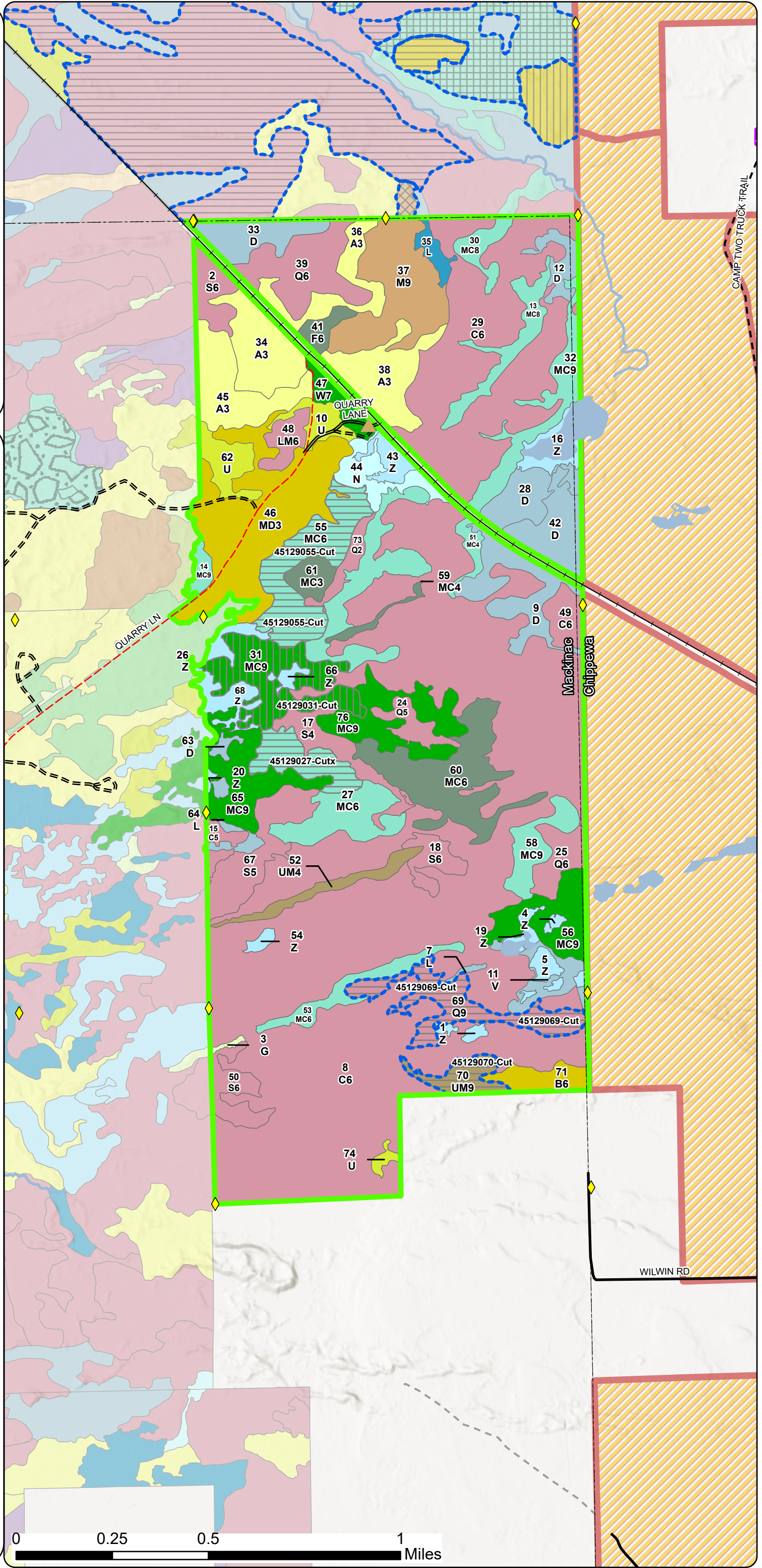
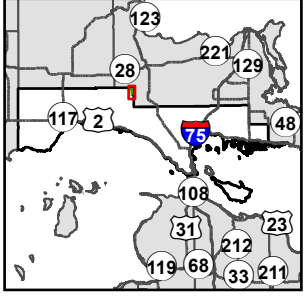
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

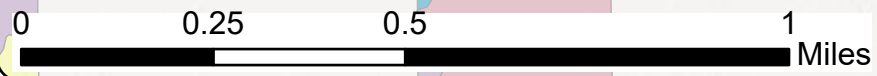
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 45129
 T44N,R07W, Sec. 1, 12, 13, 24
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt. Area: Seney Lake Plain
 YOE: 2027
 Acres: 1,515.21 GIS Calculated
 Examiner: Christian Gabler
 Date Exported: 02/04/2026
 Map Phase: Post Review

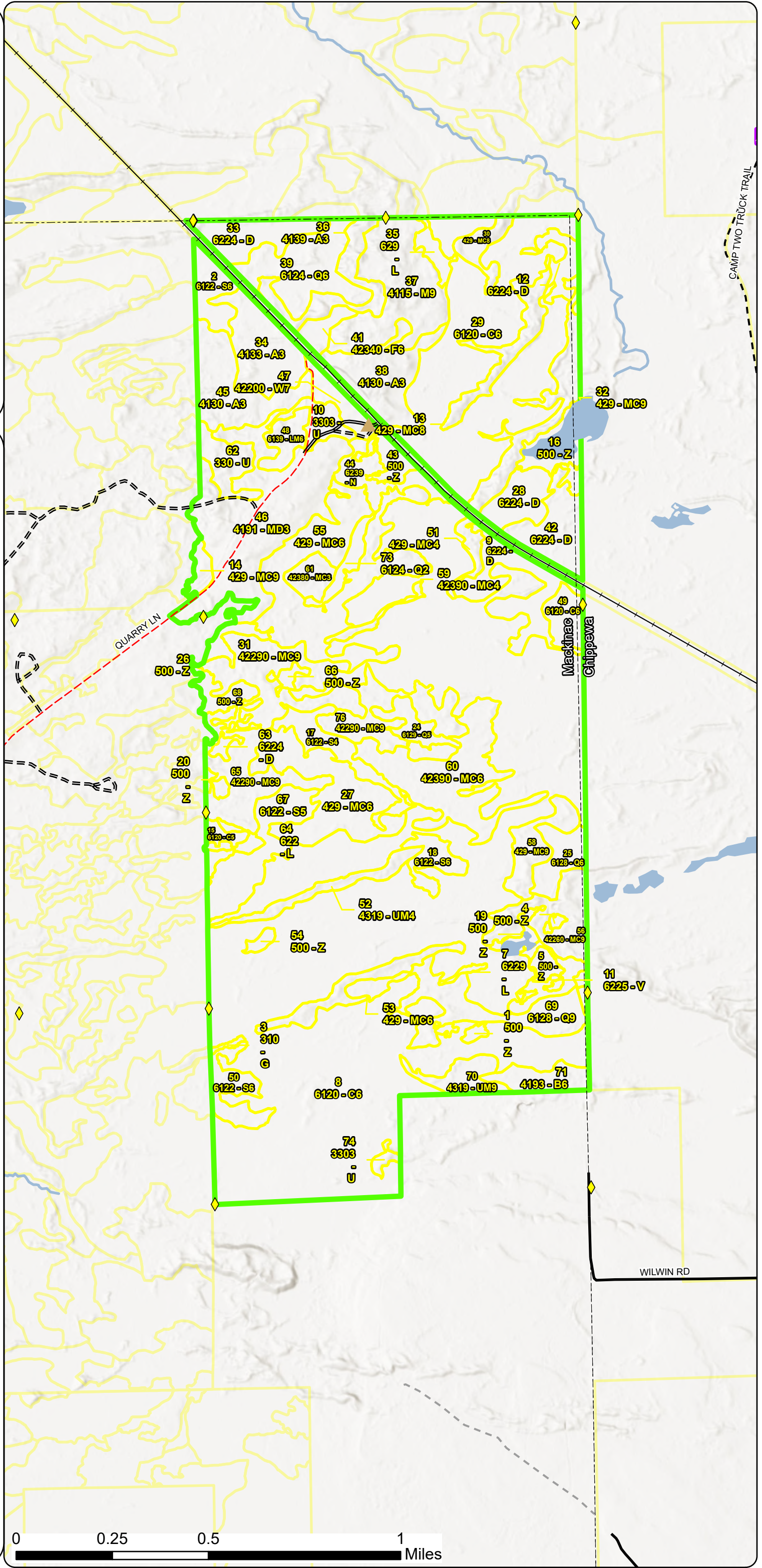
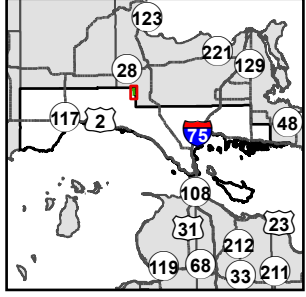


- Survey Grade Corners
- Berm
- Railroads
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Shelterwood
- Clearcut
- Selection
- Seed Tree
- Shelterwood
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested Wetland



Stand Boundary Map

Compartment: 45129
 T44N,R07W, Sec. 1, 12, 13, 24
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt. Area: Seney Lake Plain
 YOE: 2027
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- ◆ Survey Grade Corners
- ▲ Berm
- Railroads
- ▭ Compartment Boundary
- ▭ Stand Outline
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Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit

Compartment 129 Year of Entry 2027

Christian Gabler: Examiner

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	23	25	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Cedar	0	0	0	0	0	0	0	0	0	0	0	120	0	513	0	0	0	0	633
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Low-Density Trees	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Conifers	0	0	0	0	0	0	0	0	0	24	0	56	0	0	0	0	0	0	80
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Spruce/Fir	0	0	0	0	0	0	23	11	0	32	0	0	0	0	0	0	0	0	66
Marsh	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	0	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Natural Mixed Pines	0	0	0	0	0	0	0	0	32	24	0	25	0	0	0	0	0	20	100
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	40
Paper Birch	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Treed Bog	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81
Upland Conifers	0	0	0	7	0	0	0	0	13	148	13	3	0	0	0	0	0	32	216
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	10	19
Upland Spruce/Fir	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Water	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
White Pine	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Total	178	23	25	115	10	0	23	11	50	253	13	204	0	513	0	0	0	102	1518

Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 129
Total Compartment Acres: 1,515

Commercial Harvest - 158
Harvests with Site Condition - 70
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
Lowland Conifers	25	0	0	0	0	0	0	0	0	25
Natural Mixed Pines	0	0	0	0	32	0	0	0	0	32
Upland Conifers	47	0	0	0	0	0	0	0	0	47
Upland Mixed Forest	10	0	0	0	0	0	0	0	0	10
Total	82	0	0	0	32	0	0	0	0	114

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	114	0	0	0	0	0	0	0	0	114
Next Step	0	0	0	0	0	0	114	0	0	114
Total	114	0	0	0	0	0	114	0	0	228

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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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Approved Treatments:

27	45129027-Cutx	15.1	429 - Mixed Upland Conifers	6	81	81-110	Harvest	Clearcut	429 - Mixed Upland Conifers	Planting Record	No
<p><u>Prescription</u> Clearcut with retention. Harvest all trees 2" and above at DBH regardless of merchantability. No cut: Cedar, Hemlock, Oak, or Yellow birch. <u>Specs:</u> Leave one tree per acre across the stand. Favor Red or White pine. These leave trees serve to meet retention guidel</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red pine, White pine, Jack pine, Paper birch, Red maple, Black cherry, Spruce, Fir</p> <p><u>Other Comment:</u> Along the spruce bog and cedar swamp there may be some inoperable ground. Designate this as additional retention.</p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											
31	45129031-Cut	31.5	42290 - Natural Mixed Pine	9	76	111-140	Harvest	Shelterwood	42290 - Natural Mixed Pine	Cutting Record	No
<p><u>Prescription</u> Shelterwood harvest down to a residual 30 BA of Red pine and White pine. No cutting within 25' of water's edge. No cut: Cedar, Oak, Hemlock or Yellow birch to provide diversity. In the RMZ (25'-100'), thin BA to 70-80. Utilize the no cut species to reach</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red pine, White pine, Aspen, Balsam fir, White spruce, Paper birch</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											
55	45129055-Cut	32.3	429 - Mixed Upland Conifers	6	81	81-110	Harvest	Clearcut	429 - Mixed Upland Conifers	Planting Record	No
<p><u>Prescription</u> Clearcut with retention. Harvest all trees 2" and above at DBH regardless of merchantability. No cut: Cedar, Hemlock, Oak, White pine, or Red pine. These leave trees serve to meet retention guidelines. There is to be no cutting within 25' of water's edge.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Spruce, Fir, Pine spp., Paper birch</p> <p><u>Other Comment:</u> This stand is at the end of its rotation cycle.</p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</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
69 45129069-Cut	25.4	6128 - Lowland Coniferous, Mixed Deciduous	9	103	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> Clearcut with retention. Leave one White or Red pine per acre that is above 14" DBH. No cut: Cedar, Oak, Hemlock or Yellow birch to provide diversity. These leave trees serve to meet retention guidelines. Winter harvest between Dec. 1st-Mar. 31st.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> White pine, Spruce, Maple, Paper birch, Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Some areas will be excluded due to wet and sensitive soils.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
70 45129070-Cut	9.5	4319 - Mixed Upland Forest	9	92	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> Clearcut with retention. Remove all trees regardless of merchantability 2" and above at DBH. No cut Cedar. Leave not more than one representative tree per acre this will serve as retention. Favor infrequently occurring species and sawlog quality maple. W</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, Paper birch, Pine, Spruce, Cedar</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

Total Treatment 113.8
Acreage Proposed:

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Compartment: 129

Christian Gabler: Examiner

Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions								
		With Condition	Not Available			2B	2E	2I	5C	2J	3H	5D		
88	48	0	40		Aspen					40				
9	9	0	0		Bog									
605	5	0	600		Cedar					115	485			
1	1	0	0		Herbaceous Openland									
20	20	0	0		Low-Density Trees									
80	7	36	36		Lowland Conifers	25			11	28			9	
8	8	0	0		Lowland Mixed Forest									
8	4	0	4		Lowland Shrub					4				
67	55	11	0		Lowland Spruce/Fir		11							
12	12	0	0		Marsh									
68	68	0	0		Mixed Upland Deciduous									
100	32	69	0		Natural Mixed Pines				69					
40	0	0	40		Northern Hardwood					40				
10	10	0	0		Paper Birch									
81	25	0	55		Treed Bog					55				
168	29	98	40		Upland Conifers				98	40				
19	9	10	0		Upland Mixed Forest			10						
5	0	0	5		Upland Spruce/Fir					5				
46	35	0	11		Water					11				
8	8	0	0		White Pine									
1,440	384	224	832		Total Forested Acres	25	11	10	177	339	485		9	
	27%	16%	58%		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	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
This portion of the stand was dropped from treatments in 2027 YOE. Consider treating next entry.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Christian Gabler: Examiner

Compartment: 129

Year of Entry: 2027

2	Unavailable	5D: Unproductive forest land	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider treating with stands: 25, 27, 56, 58, 69, 70							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider treating with stands: 25, 27, 56, 58, 69, 70							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider treating with stands: 25, 27, 56, 58, 69, 70							
6	Available	2I: Survey needed	10	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: Graymont denied access 2016 YOE. Survey corners needed.							
7	Unavailable	2J: Blocked by railroad	339	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Blocked by Railroad							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

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Year of Entry: 2027

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider treating with stands: 25, 27, 56, 58, 65, 69, 70							
9	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	485	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5D: Unproductive forest land	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: Contact Graymont LLC							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

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16	Available	2B: Unknown if access through adjacent landowner(s) is possible	25	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2E: Road needed	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
1	500 - Water	None	2.2			No	Very wet.																																																															
2	6122 - Black Spruce	Poletimber Well	10.6	86	51-80	N/A	Spruce/fir mix some low areas. stand cut winter of 2020 45-119-17 Rail Road Mix.2027 YOE: The stand has maintained its composition.																																																															
<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>Black Spruce</td> <td>70</td> <td>Pole</td> <td>7</td> <td>86</td> </tr> <tr> <td>Northern White Cedar</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Log</td> <td>13</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	70	Pole	7	86	Northern White Cedar	15	Pole	7		White Pine	15	Log	13																																												
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4	500 - Water	None	1.0			No																																																																
5	500 - Water	None	4.8			No																																																																
7	6229 - Mixed Lowland Shrub	None	1.0			No																																																																
8	6120 - Lowland Cedar	Poletimber Well	504.1	121	111-140	N/A	Large stand that runs throughout the compartment. Variable mix of lowland conifers, but main covertype is small, low quality cedar. Quite wet throughout.																																																															
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9	6224 - Treed Bog	None	22.5			No																																																																
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10	3303 - Mixed Low Density Trees	None	7.4			Yes																																																																
11	6225 - Bog	None	8.9			No																																																																
12	6224 - Treed Bog	None	7.3			No																																																																

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	429 - Mixed Upland Conifers	Sawtimber Medium	13.4	96	51-80	N/A	Upland species on a ridge island in a cedar swamp.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		15	Pole/Log	8		Balsam Fir	
Quaking Aspen		15	Log/XLog	15		Low	
Balsam Fir		20	Pole	6		Variable	
White Pine		25	Log	15	96	Variable	
Red Pine		25	Log	15			
14	429 - Mixed Upland Conifers	Sawtimber Well	3.9	86	81-110	N/A	2027 YOE: This was a retention patch from a previous harvest from 2001-2002
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Pole/Log	7		Balsam Fir	
Quaking Aspen		20	Pole/Log	6		Low	
Balsam Fir		20	Pole	6		Variable	
White Spruce		15	Pole	6		Variable	
White Pine		35	Log	10	86	Variable	
Black Cherry		5	Pole	7		< 5 feet	
15	6120 - Lowland Cedar	Poletimber Medium	4.6	107	51-80	N/A	2027 YOE: This stand is a continuation of stand 93 in 130.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		10	Pole	7		Balsam Fir	
Black Spruce		25	Pole/Sapling	7		Low	
Northern White Cedar		60	Pole/Sapling	7	107	Variable	
White Pine		5	Log/Pole/Sap	10		Variable	
16	500 - Water	None	11.0			No	Willwin pond
17	6122 - Black Spruce	Poletimber Poor	13.4	86	Unspecified	N/A	2027 YOE: A sort of drainage area with lower densities and higher presence of cedar.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		50	Pole	7	86	Balsam Fir	
Northern White Cedar		25	Pole	6		Low	
Tamarack		15	Pole	6		Variable	
White Pine		5	Log	12		Variable	
Red Pine		5	Log	12		Variable	
18	6122 - Black Spruce	Poletimber Well	8.5	81	111-140	N/A	Decent spruce stand with a few pockets of lower topography with cedar. Quite wet in spots and drier in others.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		10	Pole	7		Balsam Fir	
Black Spruce		50	Pole/Sapling	7	81	Low	
Northern White Cedar		30	Pole/Sapling	7		Variable	
Tamarack		10	Pole/Sapling	6		Variable	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
19	500 - Water	None	3.2			No				
20	500 - Water	None	0.6			No	Very wet.			
24	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	7.2	81	51-80	N/A	2027 YOE: Lowland area that is quite wet. The canopy and composition is different outside the delineation.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	5	Pole	6		Conifers	Low	Variable	Variable
		Balsam Fir	10	Pole/Sapling	6	81				
		Black Spruce	35	Pole	6	81				
		Northern White Cedar	20	Pole/Sapling	6					
		White Pine	15	Log/Pole	12					
		Red Pine	15	Log/Pole	10					
25	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.6	86	141-170	N/A	A low area between two ridges, this stand has a nice mix of conifer and deciduous.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	10	Pole/Log/Sap	9		Balsam Fir	Low	Variable	Variable
		Yellow Birch	5	Pole	9		Black Spruce	Low	Variable	Variable
		Paper Birch	10	Pole	7		White Pine	Low	Variable	Variable
		Balsam Fir	5	Pole/Sapling	6		Red Maple	Low	Variable	Variable
		Black Spruce	35	Pole	8	86	Tag Alder	Low	Variable	Variable
		Northern White Cedar	25	Pole/Sap/Log	9					
		White Pine	10	XLog/Log/Pole	22					
26	500 - Water	None	4.4			No				
27	429 - Mixed Upland Conifers	Poletimber Well	35.7	81	81-110	N/A	2027 YOE: Stand with a high percentage of aging Jack pine. There are high and dry mounds and low and wet pockets speckled throughout. The jack pine is starting to experience mortality.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	5	Pole	6		Conifers	Low	Variable	Variable
		Paper Birch	5	Pole/Sap/Log	8					
		Balsam Fir	5	Pole/Sapling	6	60				
		Black Spruce	40	Pole	6	81				
		White Pine	15	Log/Pole	12					
		Red Pine	10	Log/Pole	10					
		Jack Pine	20	Pole/Sap/Log	8					
28	6224 - Treed Bog	None	14.5			No	2027 YOE: Bog with beaver flooding in the north end of it.			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
29	6120 - Lowland Cedar	Poletimber Well	115.4	105	Unspecified	N/A	2027 YOE: Large continuous cedar stand north of the railroad. Large ridge islands are inside and adjacent to the stand.																																										
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30	429 - Mixed Upland Conifers	Sawtimber Medium	7.1	86	51-80	N/A	2027 YOE: A ridge that connects up through into Newberry FMU. Stand includes 2 low spots of nicer spruce.																																										
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31	42290 - Natural Mixed Pine	Sawtimber Well	31.5	76	111-140	N/A	2027 YOE: Nice pine stand. Variable BA throughout but generally around 120 BA. There are some natural channels for spring runoff.																																										
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34	4133 - Aspen, Mixed Pine	Sapling Well	23.2	5	1-50	N/A	2020: Spruce/fir mix some low areas. stand cut winter of 2020 45-119-17 Rail Road Mix. 2027 YOE: Previous timber sale left a considerable amount of White pine. A thick secondary cohort of early successional species has established and is a growing season away from free to grow. High and low areas throughout. Previous cover type objective was a lowland mix.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35 629 - Mixed non-forested Wetland None 4.4 Stand Age BA Range Managed Site No

36 4139 - Aspen, Mixed Deciduous Sapling Well 15.3 25 Immature N/A

Stand was cut in 2002. Regeneration is aspen with mix of balsam, spruce, cherry, and birch. There are some large white pine residual scattered.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling/Pole	3	
Paper Birch	10	Sapling/Pole	3	
Quaking Aspen	55	Sapling/Pole	3	25
Balsam Fir	10	Sapling	3	
White Pine	5	Log	14	
Black Cherry	10	Sapling	2	

37 4115 - Y.Birch, Hemlock NH Sawtimber Well 39.7 82 81-110 N/A

Stand was thinned in 2003. Lower quality hardwood mix with Hemlock and hemlock. Some Yellow Birch scattered. 2027 YOE: Added on BA but not enough to warrant a prescription. Wait another cycle before serious treatment considerations.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	60	Log/Pole	12	82
Yellow Birch	10	Log/XLog	14	
Balsam Fir	5	Pole	7	
White Spruce	5	Pole	6	
White Pine	10	Log/XLog	14	
Hemlock	10	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Variable
Conifers	Medium	Variable	Variable

38 4130 - Aspen Sapling Well 24.3 24 Immature N/A

2015: Stand was cut in 2002. Aspen regeneration is looking good.2027 YOE: Nice young aspen stand. A few growing seasons away from transitioning into poles.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	2	
Paper Birch	10	Sapling	3	
Quaking Aspen	70	Sapling	3	24
Balsam Fir	5	Sapling	3	
Black Cherry	10	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	< 5 feet	< 5 feet
Balsam Fir	Low	< 5 feet	< 5 feet

39 6124 - Lowland Spruce-Fir Poletimber Well 27.7 100 141-170 N/A

lowland spruce that is good quality. Access is across railroad.2027 YOE: Last inventory was in 2015 - the stand prescription was recycled for this entry period.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	15	Pole	9	
Balsam Fir	5	Pole	9	
Black Spruce	45	Pole	8	100
Tamarack	15	Pole	8	
White Pine	20	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
41	42340 - Upland Spruce/Fir	Poletimber Well	5.3	70	51-80	N/A	2027 YOE: Stand is in relatively good health. This is a sort of transition between the aspen and a more maple dominated site.																																																		
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42	6224 - Treed Bog	None	18.0			No	2027 YOE: Tough stand to characterize. This is on the whole a treed bog, but it is untraditional. There are bog like qualities in the low spots but small upland ridges scattered throughout.																																																		
43	500 - Water	None	6.1			No																																																			
44	6239 - Mixed Emergent Wetland	None	11.8			No																																																			
45	4130 - Aspen	Sapling Well	25.2	15	Immature	N/A	Stand was cut in 2011. Good aspen regen. 45-123-07-01 Resting Place Mix.																																																		
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46	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	68.4	24	Immature	N/A	2016 YOE: Stand was cut in 2001-2002. Regeneration is widely variable mix of cherry, aspen, and birch. Almost exclusively cherry brush in places. 2027 YOE: Stand 46 is very mixed and has been filling in well. Pockets of pure Cherry or Aspen exists. Future inventories may see this stand split into different cover types; however, the stand is still quite immature. Some areas are transitioning into pole size classes.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
47	42200 - Natural White Pine	Sawtimber Poor	7.9	86	1-50	N/A	2020 Treatment Report: Mixed stand of residual from long previous treatments. stand cut winter of 2020 45-119-17 Rail Road Mix2027 YOE: Enough retained White pine from previous timber sale Rail Road Mix, is present to be a cover type of W7. This will be only for one or two entries while the sub-canopy matures. Possible management would include a reduction in BA and scarification, or, leave undisturbed until a mix of White pine and mature early successional species is the composition of the stand. There is a local presence of Sugar maple, which would be a nice future component if there were successive YOE's where the stand was left to continue a natural floristics path.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Pole/Log	9		Red Maple		
Balsam Fir		5	Pole	7		Aspen (spp.)		
White Spruce		5	Pole	7		Density		
White Pine		80	Log	12	86	Avg. Height		
						Size		
48	6139 - Mixed Lowland Forest	Poletimber Well	7.6	86	111-140	N/A	Island of uncut pole. Leave since everything around it has been cut.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		5	Pole	8		Red Maple		
Red Maple		15	Pole	7		Balsam Fir		
Paper Birch		10	Pole	7		Density		
Quaking Aspen		25	Pole/Log	9	86	Avg. Height		
Balsam Fir		10	Pole/Sapling	6		Size		
White Spruce		10	Pole	7				
White Pine		5	Pole	8				
Jack Pine		20	Pole	6				
49	6120 - Lowland Cedar	Poletimber Well	8.5	121	111-140	N/A	2016 YOE: Large stand that runs throughout the compartment. Variable mix of lowland conifers, but main cover type is small, low-quality cedar. Quite wet throughout.2027 YOE: This cedar island is a continuation of the main body of cedar located just south on the other side of the lowland swale. North tip is out of deer yard.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Pole/Sap/Log	7		Tag Alder		
Balsam Fir		5	Pole/Sapling	7		Density		
Black Spruce		20	Pole/Sapling	7		Avg. Height		
Northern White Cedar		50	Pole/Sapling	7	121	Size		
Tamarack		10	Pole/Sapling	6				
White Pine		10	Log/Pole	15				
50	6122 - Black Spruce	Poletimber Well	11.4	62	141-170	N/A	2027 YOE: Black spruce stand. Wet and tough to get to. High and dry ridge in the north finger of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Spruce		85	Pole	6	62			
Tamarack		15	Pole/Sapling	6				
51	429 - Mixed Upland Conifers	Poletimber Poor	4.1	86	1-50	N/A	2027 YOE: Upland ridge with moderately stocked upland species.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Pole	8				
Paper Birch		20	Pole	7				
Balsam Fir		10	Pole	6				
Black Spruce		40	Pole	7	86			
White Pine		20	Log	12				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52 4319 - Mixed Upland Forest Poletimber Poor 9.1 81 1-50 N/A Upland opening with scattered mixed pine and conifer.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole/Log	7	
Paper Birch	25	Sapling/Pole	4	
Balsam Fir	10	Pole/Sapling	5	
White Spruce	30	Pole/Sapling	5	81
White Pine	5	Log/Pole	12	
Red Pine	5	Pole/Log	9	

53 429 - Mixed Upland Conifers Poletimber Well 11.6 81 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	8	
Paper Birch	10	Pole/Log	9	
Balsam Fir	20	Pole	6	
White Spruce	10	Pole	6	
White Pine	20	Pole/Log	9	
Red Pine	30	Pole/Log	9	81

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Medium	Variable	Variable

2016 YOE: Island of upland opening with pine and mixed conifer within large cedar lowland stand. Access could be explored in the future if it as ever gained to stand 69.2027 YOE: Sandy ridge where stand composition hasn't changed very much since last inventory. Possible management opportunity with stand 69.

54 500 - Water None 1.8 No

55 429 - Mixed Upland Conifers Poletimber Well 56.8 81 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	6	
Paper Birch	5	Pole	6	
Balsam Fir	10	Pole/Sapling	6	
Black Spruce	45	Pole	6	81
White Pine	20	Log/Pole	12	
Red Pine	15	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Low	Variable	Variable

2027 YOE: Nice spruce stand with large white pine and red pine. Some deciduous species sparsely tessellated throughout.

56 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 20.1 92 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole/Log	9	
Bigtooth Aspen	20	Log/Pole	12	
Balsam Fir	5	Pole	8	
White Spruce	5	Pole	8	
White Pine	30	Log/Pole	14	
Red Pine	30	Log/XLog/Pole	15	92

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	Variable	Variable
White Pine	Medium	Variable	Variable
Red Pine	Trace	< 5 feet	< 5 feet
Balsam Fir	Low	Variable	Variable

2027 YOE: There are nice red and white pine throughout the stand. There are seams of high BA bigtooth aspen that are found in the stand as well. Both are about the same age. A mostly open and airy understory with bracken fern. Bever ponds to the south. Trees in all size classes. Come cedar on the fringes. Decent sized lake on the east side. An old railroad grade runs around the north and cuts through the middle of the stand. ITs a little hilly in spots with a prominent ridge that runs east/west on the north part of the stand. The stand is in good health and the aspen still had solid heartwood. Some pines are XLog sized. Great site for pine, there is regeneration across the stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	429 - Mixed Upland Conifers	Sawtimber Well	12.8	76	81-110	N/A	Island of pine/mixed conifer within very large surrounded lowland conifer stand.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	10	Pole	8		
		Paper Birch	15	Log/Pole	12		
		Balsam Fir	5	Pole	6		
		White Spruce	30	Pole	6	76	
		White Pine	20	Log/Pole	13		
		Red Pine	15	Log/Pole/XLog	14	76	
		Jack Pine	3	Pole	8		
		Black Cherry	2	Pole	5		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Conifers	Low	Variable	Variable		
59	42390 - Mixed Non-Pine Upland Conifers	Poletimber Poor	2.8	107	1-50	N/A	This stand is mostly a sandy ridge. It appears that the grasses on the ridge are hampering seedling establishment.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Balsam Fir	20	Pole/Sapling	6		
		Black Spruce	30	Pole/Sapling	6		
		Northern White Cedar	35	Pole	7	107	
		White Pine	15	Log/Pole	12		
60	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	40.3	81	111-140	N/A	Variable stand, areas of low-quality timber with minimal stocking, and there are areas of highly productive timber. The stand has areas of high ground and low ground speckled throughout. Areas of boggy attributes and areas of dry needle layers. Overall, nice stand, would come back nicely to a mix of conifer.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	5	Pole/Log	9		
		Balsam Fir	5	Pole/Sapling	6		
		Black Spruce	35	Pole	6	81	
		Northern White Cedar	25	Pole/Log/Sap	7		
		White Pine	10	XLog/Log	18		
		Red Pine	15	XLog/Log	18		
		Jack Pine	5	Pole	7		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Conifers	Low	Variable	Variable		
61	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Well	6.8	26	Immature	N/A	2027 YOY: Stand was cut in the winter of 1999 "Drummer's Flush". The stand at time of inventory had characteristics of prolonged flooding. The cover type established is a mix of hydric tolerant tree species. the northwest portion of the stand is on a dry ridge where most the aspen and cherry are.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	5	Sapling	3		
		Paper Birch	5	Sapling	3		
		Bigtooth Aspen	15	Sapling	3		
		Balsam Fir	15	Sapling	3		
		Black Spruce	30	Sapling	3	26	
		Tamarack	20	Sapling	3		
62	330 - Low-Density Trees	None	10.6			Yes	Continue to co-manage this stand with WLD. No maintenance required this entry.
63	6224 - Treed Bog	None	2.8			No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64 622 - Lowland Shrub None 3.1 No

65 42290 - Natural Mixed Pine Sawtimber Well 24.5 109 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole/Log	8	
Black Spruce	20	Pole	8	
White Pine	40	Log/XLog	14	109
Red Pine	35	Log	14	

2027 YOE: Super awesome White pine and Red pine stand. Some scattered spruce/fir and paper birch. A ridge runs the middle of the stand east and west into stand 27. Large diameter's and some really dense BA's in spots. There is a 4' creek that cuts through the north bit of the stand. Good water sources all around this stand.

66 500 - Water None 2.2 No

67 6122 - Black Spruce Poletimber Medium 22.9 51 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	65	Pole	7	51
Tamarack	15	Pole	6	
White Pine	15	Log	12	
Red Pine	5	Log	12	

Wetland with black spruce and some scattered pine on the fringes. Very wet.

68 500 - Water None 8.3 No

2027 YOE: Hyper mini-islands in the middle of the open water.

69 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 28.2 103 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	8	
Paper Birch	15	Pole/Log	9	
Balsam Fir	5	Pole	8	
Black Spruce	20	Pole	7	
Northern White Cedar	10	Pole	7	
White Pine	25	Log/XLog	16	103

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable

2016 YOE: Check this stand in 10 years for any increased access potential. Smaller diameter understory will have a chance to grow larger. 2027 YOE: Decent spruce/fir mix along with low density but very nice pine. Cedar on the edges. There is a drainage on the north boundary with slow steady flow from the cedar swamp adjacent to it.

70 4319 - Mixed Upland Forest Sawtimber Well 9.5 92 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Log	14	92
Paper Birch	20	Pole/Log	8	
Balsam Fir	10	Pole	8	
White Spruce	20	Pole/Log	9	
Northern White Cedar	5	Pole	7	
White Pine	10	Log/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Maple (spp.)	Low	Variable	Variable
Conifers	Medium	Variable	Variable

2027 YOE: A mature stand with decadent soft maple, balsam fir and spruce and large paper birch. The canopy gaps from decay are releasing the established understory of fir.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
71	4193 - Birch, Aspen	Poletimber Well	9.7	30	Immature	N/A	Cut in 1996. Mixed regen that is variable in density. Some of the ground is soft and wet in areas.																																													
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73	6124 - Lowland Spruce-Fir	Sapling Medium	5.8	81	Unspecified	N/A	2027 YOE: Swale that is really wet carrying low quality low density stunted conifer.																																													
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76	42290 - Natural Mixed Pine	Sawtimber Well	24.0	86	111-140	N/A	2027 YOE: Very nice kind of wettish pine stand. Not as nice of a stand as the ones to the northwest.																																													
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