



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45164

Entry Year 2017

Acreage: 1,919

County Mackinac

Management Area: Mackinac Mix

Revision Date: 2015-08-04

Stand Examiner: Cory Luoto

Legal Description:

T43N-R8W Sections 6 & 7, Hudson Township; T43N-R9W Sections 1 & 12, Garfield Township; & T44N-R9W Section 36, Garfield Township.

Identified Planning Goals:

Compartment 164 is located northeast of Naubinway on Hiawatha Trail (H-40) and is just east of Gilchrist. Achieving multi age class distribution across the compartment in the aspen/birch cover types will benefit certain wildlife values as well as sustainable fiber production. Due to the large amount of rivers and streams Best Management Practices will be followed to maintain the riparian areas, especially in the Black River corridor. Red pine will be removed from the over story of a previous cut.

Soil and topography:

The hardwood and pine sites that occur in the southern portion of the compartment are on level to rolling dunes of outwash and lake planes. These sites are made up of Wallace-Alcona complex and Wallace sand. The aspen and birch types within the compartment occur on depressions and nearly level areas on outwash plains and lake plains. Moltke loam and Spot-Finch complex are the most common soil in these areas.

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

The compartment borders other state land to the south and the west. The north and east side of the compartment borders numerous small, non-residential, land owners.

Unique Natural Features:

The compartment has the potential to have various threatened and endangered species.

Archeological, Historical, and Cultural Features:

Evidence of old dams used for floating logs on the Black River.

Special Management Designations or Considerations:

In the riparian zones the BMP guidelines will be applied.

Watershed and Fisheries Considerations:

The Black River, Silver Creek, Barber Creek, and Kinney Creek are found in this compartment. The rivers in this watershed are cold-water trout streams that host a fish community of brook trout, slimy sculpins, central mudminnows, northern redbelly dace, white suckers, and brook sticklebacks. The Black River also hosts runs of anadromous fish such as steelhead. This system of the Black River and its tributaries provides excellent spawning and nursery habitat for anadromous salmonids.

Wildlife Habitat Considerations:

This compartment lies within the Mackinac Mix Management Area, and featured species are black bear, pileated woodpecker, ruffed grouse, snowshoe hare, and white-tailed deer. Pre-settlement vegetation included an assemblage of tree species includes hemlock, white birch, yellow birch, sugar maple, black ash, aspen, elm, red maple, and cedar. Lowlands also contained spruce and tamarack. Aspen appears to be more prevalent in today's forest than during pre-settlement times. Mixed hardwood/conifer stands appear to be less prevalent. Many aspen stands are relatively young, but there are varying ages between many stands. A treatment to an older stand will provide young regeneration, and the habitat in varying age classes will benefit ruffed grouse, deer, and hare as well as other species. Some older stands where access is limited will provide habitat for pileated woodpecker and other cavity-nesters. The complex of upland and lowland habitats including stream corridors provide habitat for a number of wildlife including black bear. Streams will be buffered to maintain the riparian habitats.

Mineral Resource and Development Concerns and/or Restrictions

The State does not appear to have any surface ownership in sections 5 and 8. Surface sediments consist of lacustrine sand and gravel and minor peat, muck, and coarse-textured till. There is insufficient data to determine the glacial drift thickness

(~10-100 feet). The Silurian Engadine and Manistique groups subcrop below the glacial drift. Silurian-age limestone and dolomite have been quarried to the north, northeast, and west. The proposed location of Graymont's underground limestone mine is immediately to the north. A gravel pit is located in Section 21 (T44N R8W), three miles to the northeast. Glacial drift is thin in this area, so sand and gravel potential appears to be limited. There is no current economic oil and gas production in the UP.

Vehicle Access:

The overall access to the compartment is quite limited due to the ground conditions and the Canadian National Rail Road. Hiawatha Trail (H-40) (paved county road) and Black River Road (gravel county road) provide the main access to the southern portion of the compartment with good logging roads to provide additional access. The far northern portion of the compartment has to be accessed through a private road off the North Black River Rd, permission is required. The northwest portion of the compartment can be accessed through a logging road off the Cranberry Lake Road.

Survey Needs:

Section 36 W1/4 corner and center of section. Section 7 needs the west and the center 1/4 corner. Also the South 1/16 corner, common to Sec 7 and 12, maybe needed and the south west 1/16 corner. In section 36 the west 1/4 corner and the center section corner are needed; the south 1/16 and the south east 1/16 are needed, if access is obtained.

Recreational Facilities and Opportunities:

The Black River provides the public with excellent trout fishing during the summer months. The woods roads provide access for all types of hunting and camping.

Fire Protection:

The southern portion of the compartment is drier and is used more heavily by the public and therefore; has a higher potential for ignition. The northern half has limited access and has a deeper organic layer to burn into.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

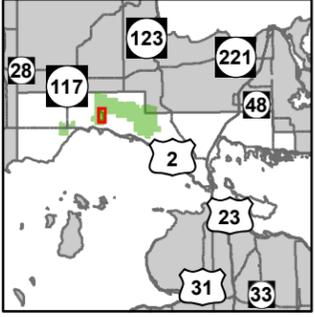
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

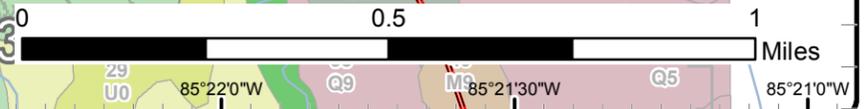
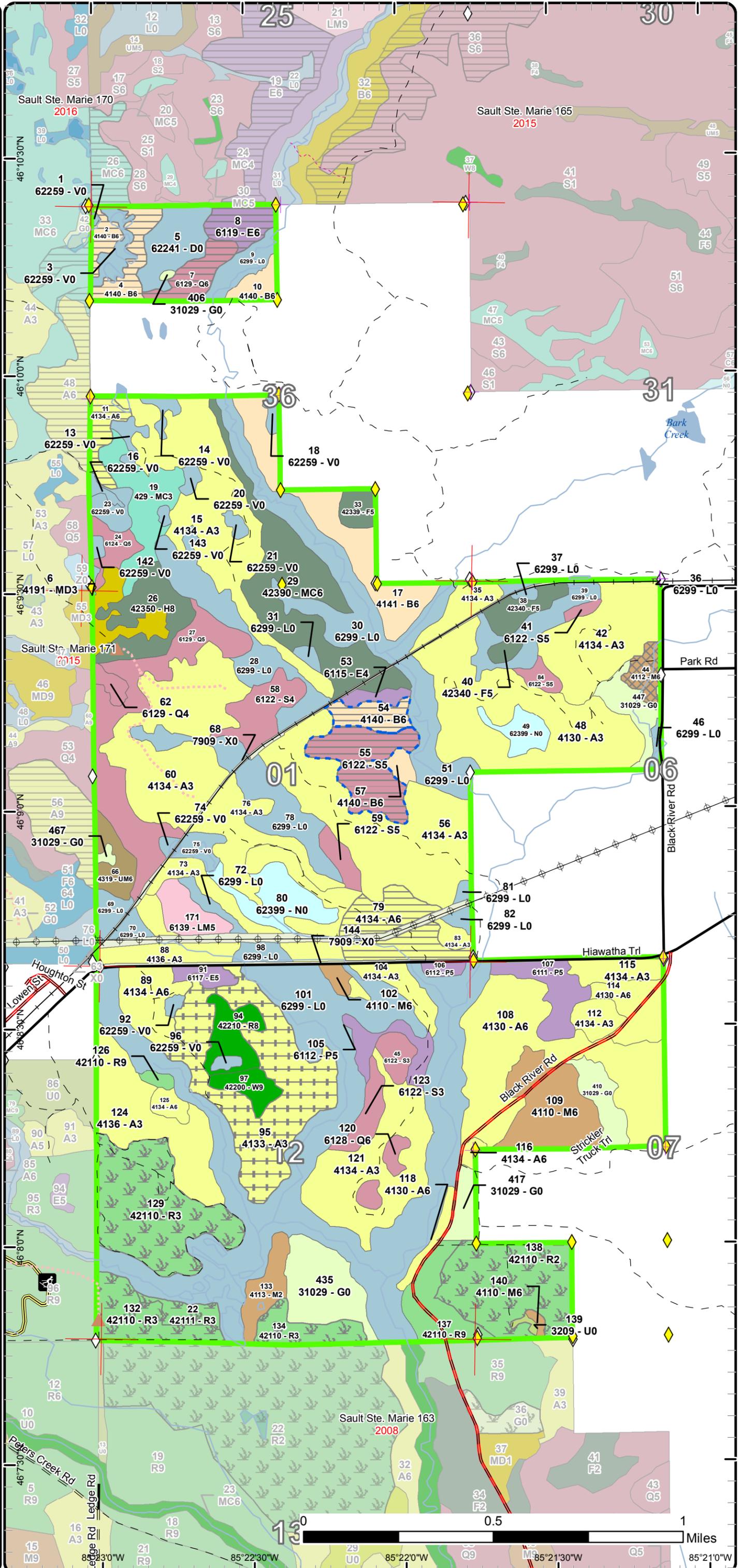
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

Compartment: 164
 T43N,R09W, Sec. 1, 6, 7, 12
 T44N,R09W, Sec. 36
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Mackinac Mix
 YOE: 2017
 Acres: 1919 GIS Calculated
 Examiner: Cory Luoto
 Map Revised: 8/10/2015
 Map Phase: Review

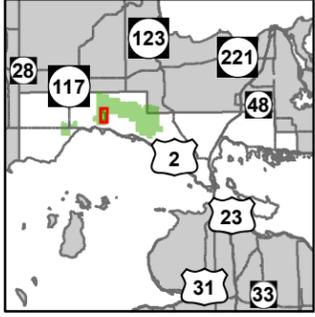


- ✚ Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- ▲ Berms
- 🚶 Hiking Trails
- 🏂 Ski Trails
- Railroads
- Rivers
- Lakes
- ⚡ Powerline
- ▨ Treatments with Site Conditions
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Pesticide
- ▨ Harvest, Overstory Removal
- Forest Coverture**
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Coverture**
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated

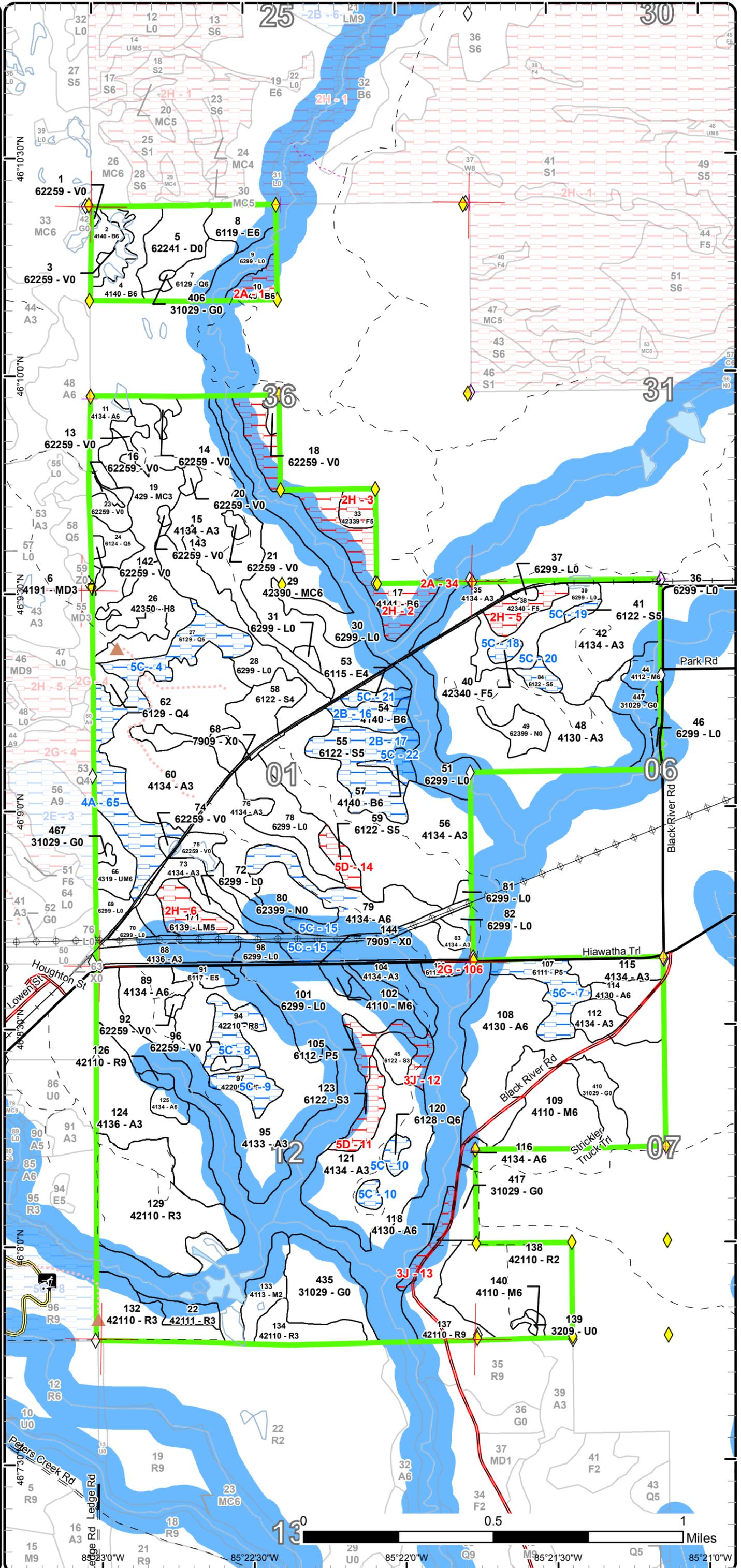


Special Conservation Areas & Site Conditions Map

Compartment: 164
 T43N,R09W, Sec. 1, 6, 7, 12
 T44N,R09W, Sec. 36
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Mackinac Mix
 YOE: 2017
 Acres: 1919 GIS Calculated
 Examiner: Cory Luoto
 Map Revised: 8/10/2015
 Map Phase: Review



- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◆ Field Grade GPS Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- Gravel Roads
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- - - - Closed Roads
- ▲ Berms
- ▲ Hiking Trails
- ▲ Ski Trails
- Railroads
- Rivers
- Powerline
- Stand Boundaries
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 2B: Unknown if access through adjacent landowner(s) is possible
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	212	170	191	80	17	48	8	2	5	0	0	0	0	0	0	0	0	733
Bare/Sparsely Vegetated	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Bog	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
Herbaceous Openland	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	18	10	0	0	0	0	0	0	0	0	0	28
Lowland Conifers	0	0	0	7	0	0	0	0	0	15	0	45	0	6	0	0	0	0	73
Lowland Deciduous	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	9	19
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Lowland Shrub	377	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	377
Lowland Spruce/Fir	0	6	0	0	0	0	0	15	0	0	45	0	0	0	0	0	0	0	66
Marsh	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Northern Hardwood	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	43	54
Paper Birch	0	0	0	0	0	0	0	9	62	0	0	0	0	0	0	0	0	0	71
Red Pine	0	48	55	40	0	0	0	0	18	15	0	0	0	0	0	0	0	0	176
Treed Bog	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Conifers	0	0	0	0	0	22	52	0	0	0	0	0	0	0	0	0	0	0	74
Upland Mixed Forest	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Spruce/Fir	0	0	0	0	0	0	6	0	11	0	0	0	0	0	0	0	0	0	17
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	8
Total	546	277	225	249	80	39	106	50	113	46	45	56	0	14	0	0	0	74	1919



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 164
Total Compartment Acres: 1,919

Commercial Harvest - 149
Harvests with Site Condition - 35
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	34	0	0	0	0	0	70	0	0	104
Lowland Conifers	11	0	0	0	0	0	0	0	0	11
Lowland Deciduous	11	0	0	0	0	0	0	0	0	11
Lowland Spruce/Fir	26	0	0	0	0	0	0	0	0	26
Northern Hardwood	0	7	0	0	0	0	0	0	0	7
Paper Birch	26	0	0	0	0	0	0	0	0	26
Total	108	7	0	0	0	0	70	0	0	184

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	184	0	0	0	0	143	0	0	0	327
Next Step	0	0	0	0	0	0	327	0	0	327
Total	184	0	0	0	0	143	327	0	0	654



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	Approval Status
2	45164002-Cut	5.0	4140 - Other Upland Deciduous	Poletimber Well	75	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal

Habitat Cut: No Site Condition:

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Leave a buffer along the edge of the wetland.

Next Step
Treatments:

Acceptable Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

4	45164004-Cut	11.5	4140 - Other Upland Deciduous	Poletimber Well	75	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Leave a buffer along the edge of the wetland.

Next Step
Treatments:

Acceptable Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

7	45164007-Cut	11.0	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	82	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Leave a buffer along the edge of the wetland.

Next Step
Treatments:

Acceptable Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, black spruce, cedar, tamarack and white pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

8	45164008-Cut	10.7	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	89	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Leave a buffer along the edge of the wetland.

Next Step
Treatments:

Acceptable Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, black spruce, cedar, tamarack and white pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
11	45164011-Cut	8.5	4134 - Aspen, Spruce/Fir	Poletimber Well	65	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Leave a buffer along the edge of the wetland.

Next Step
Treatments:

Acceptable Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

22	45164022-Spray	6.1	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	23	Immature	Pesticide	Aerial	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Monitor effects of release and treat as necessary. Monitor for RHPS and if monitoring shows that treatment is recommended, then spray when/if necessary with appropriate insecticide recommended by Forest Health Specialist/TMS.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

44	45164044-Cut	6.9	4112 - Maple, Beech, Cherry Association	Poletimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.

Next Step
Treatments:

Acceptable Maple, cherry, beech, paper and yellow birch, basswood, aspen and ironwood.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

54	45164054-Cut	9.2	4140 - Other Upland Deciduous	Poletimber Well	68	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Leave a buffer along the edge of the wetland.

Next Step
Treatments:

Acceptable Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, black spruce, cedar, tamarack and white pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
55	45164055-Cut	26.1	6122 - Black Spruce	Poletimber Medium	90	1-50	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition: Unknown Access								
<u>Prescription</u> Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Leave a buffer along the edge of the wetland.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, black spruce, cedar, tamarack and white pine.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
79	45164079-Cut	25.4	4134 - Aspen, Spruce/Fir	Poletimber Well	56	111- 140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Leave a buffer along the edge of the wetland.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, black spruce, cedar, tamarack and white pine.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
95	45164095-Cut	69.6	4133 - Aspen, Mixed Pine	Sapling Well	13	1-50	Harvest	Overstory Removal	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all remaining red pine out of the stand.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Acceptable regeneration is already well established.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
129	45164129- Spray	55.2	42110 - Planted Red Pine	Sapling Well	10	Immatur re	Pesticide	Aerial	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: Yes			Site Condition:								
<u>Prescription</u> Monitor effects of release and treat as necessary. Monitor for RHPS and if monitoring shows that treatment is recommended, then spray when/if necessary with appropriate insecticide recommended by Forest Health Specialist/TMS.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											



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	Approval Status
132	45164132-Spray	20.7	42110 - Planted Red Pine	Sapling Well	23	Immature	Pesticide	Aerial	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: Yes

Site Condition:

Prescription Monitor effects of release and treat as necessary. Monitor for RHPS and if monitoring shows that treatment is recommended, then spray when/if necessary with appropriate insecticide recommended by Forest Health Specialist/TMS.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

134	45164134-Spray	12.7	42110 - Planted Red Pine	Sapling Well	23	Immature	Pesticide	Aerial	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Monitor effects of release and treat as necessary. Monitor for RHPS and if monitoring shows that treatment is recommended, then spray when/if necessary with appropriate insecticide recommended by Forest Health Specialist/TMS.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

138	45164138-Spray	48.1	42110 - Planted Red Pine	Sapling Medium	5	Immature	Pesticide	Aerial	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Monitor effects of release and treat as necessary. Monitor for RHPS and if monitoring shows that treatment is recommended, then spray when/if necessary with appropriate insecticide recommended by Forest Health Specialist/TMS.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

Total Treatment Acreage Proposed: 326.9

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 164

Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions								
		With Condition	Not Available		2B	4A	5C	2A	2G	2H	3J	5D	
734	711	18	5	Aspen			18					5	
27	27	0	0	Bare/Sparsely Vegetated									
40	40	0	0	Bog									
22	22	0	0	Hemlock									
58	58	0	0	Herbaceous Openland									
28	0	15	13	Lowland Aspen/Balsam Poplar			15		3			10	
72	22	50	0	Lowland Conifers		1	49						
19	15	4	0	Lowland Deciduous			4						
11	0	0	11	Lowland Mixed Forest						11			
377	377	0	0	Lowland Shrub									
67	21	32	14	Lowland Spruce/Fir	26		6						14
25	25	0	0	Marsh									
11	11	0	0	Mixed Upland Deciduous									
54	54	0	0	Northern Hardwood									
72	16	13	42	Paper Birch	9		4	8		34			
176	163	13	0	Red Pine			13						
17	17	0	0	Treed Bog									
74	74	0	0	Upland Conifers									
10	10	0	0	Upland Mixed Forest									
1	1	0	0	Upland Shrub									
17	0	3	15	Upland Spruce/Fir			3			15			
8	0	8	0	White Pine			8						
1,919	1,665	155	99	Total Forested Acres	35	1	118	8	3	59	15	14	
	87%	8%	5%	Relative Percent									

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2A: Adjacent landowner denied access	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 164

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2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	34	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand was left as mature cover. Look at harvesting when adjacent stand get older.							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

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Year of Entry: 2017

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5D: Unproductive Forest Land	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 164

Year of Entry: 2017

14	Unavailable	5D: Unproductive Forest Land	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2B: Unknown if access through adjacent landowner(s) is possible	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

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Cory Luoto : Examiner

Compartment: 164

Year of Entry: 2017

20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	2A: Adjacent landowner denied access	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
65	Available	4A: No Markets Available for these Forest Products	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
106	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 7 – 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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

Stand	Sault Ste. Marie Mgt. Unit		Report 8 – Forested Stands			Compartment: 164	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2017	
2	4140 - Other Upland Deciduous	Poletimber Well	5.0	75	81-110		Harvest with stands in compartment 165.
4	4140 - Other Upland Deciduous	Poletimber Well	11.5	75	51-80		Harvest with stands in comp 165.
6	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	11.3	5	1-50		Stand was strip cut in 1974 (1 chain cut, 2 chains left). Good reproduction (RM, Cherry, WB, H) at last entry warranted a shelter wood-seed cut. That cut was complete in 2010. It currently is a 3-storied stand: H & YB log over 1974 cut regeneration (40'-50' tall) and 2000 cut (10'-20' tall).
7	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	11.0	82	51-80		Small diameter, poor quality swamp conifer.
8	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	10.7	89	51-80		This stand sits on the higher ground along the Black River. Stand is very wet in places.
10	4140 - Other Upland Deciduous	Poletimber Well	6.0	71	111-140		Stand is ready to be cut but access is blocked by the Black River and private land.
11	4134 - Aspen, Spruce/Fir	Poletimber Well	8.5	65	81-110		Harvest with stands in compartment 170.
15	4134 - Aspen, Spruce/Fir	Sapling Well	64.1	8	Immature		Stand was cut in 2007. Regeneration is doing great.
17	4141 - Birch (OI)	Poletimber Well	36.1	75	51-80		Inaccessible birch stand. Blocked by the Black River and private land.
19	429 - Mixed Upland Conifers	Sapling Well	22.0	40	1-50		Thick conifer regeneration.
22	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	6.1	23	Immature		Red pine didn't come in this stand quite as good as the rest of the stand. The pine is very healthy.
24	6124 - Lowland Spruce-Fir	Poletimber Medium	7.0	26	51-80		Poor quality mixed brush with tag alder. Stand has wet areas within it and it borders some larger wetlands.
26	42350 - Upland Hemlock	Sawtimber Medium	21.6	178	51-80		Was an experiment in strip cuts. Cut everything left in the the strips except W. Pine and Hemlock
27	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	44.7	104	51-80		This stand has been left for cover.
29	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	52.0	57	81-110		Part of the stand should be left as a buffer along the river.
33	42339 - Upland Spruce/Fir (OI)	Poletimber Medium	6.0	55	1-50		Stand is blocked by private land and the Black River.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4134 - Aspen, Spruce/Fir	Sapling Well	9.5	26	Immature	Nice aspen stand. Trees are doing great.
38	42340 - Upland Spruce/Fir	Poletimber Medium	8.6	77	1-50	Stand access is very difficult. It is blocked by a wide tag alder area and steep banks going up to the railroad tracks. It has been left for the last two entries because of the access. The overall health is pretty good.
40	42340 - Upland Spruce/Fir	Poletimber Medium	2.7	77	1-50	Stand access is very difficult. It is blocked by a wide tag alder area and steep banks. It has been left for the last two entries because of the access. The overall health is pretty good.
41	6122 - Black Spruce	Poletimber Medium	1.8	90	1-50	Stand is along a steep drop off from the aspen stand down to an lowland type. It has been left because of difficult access and it adds diversity to the area.
42	4134 - Aspen, Spruce/Fir	Sapling Well	39.5	26	Immature	Stand is just starting to transition to a pole stand. Doing really good.
44	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.9	92	111-140	Stand is ready to be thinned. It will make a nice small sale.
45	6122 - Black Spruce	Sapling Well	6.1	8	Immature	Stand was cut in 2007. Cedar and white pine were left.
48	4130 - Aspen	Sapling Well	74.9	12	Immature	Stand is doing great, very little conifer.
53	6115 - Lowland Ash	Poletimber Poor	3.8	80	1-50	This stand could be a lowland shrub type but just enough hardwood to make it a forested stand. Very wet and poor quality.
54	4140 - Other Upland Deciduous	Poletimber Well	9.2	68	81-110	Access may be difficult but this stand is ready to harvest.
55	6122 - Black Spruce	Poletimber Medium	26.1	90	1-50	Poor quality black spruce. Lots of tag alder an low areas.
56	4134 - Aspen, Spruce/Fir	Sapling Well	74.6	25	Immature	Nice aspen and conifer regeneration.
57	4140 - Other Upland Deciduous	Poletimber Well	3.8	75	81-110	Access is going to be difficult but ready to harvest.
58	6122 - Black Spruce	Poletimber Poor	15.2	62	1-50	This is a sparse, wet swamp conifer stand. Some higher humps with birch and aspen.
59	6122 - Black Spruce	Poletimber Medium	5.5	90	1-50	Very wet, poor quality spruce. Areas of lowland shrub throughout the stand.
60	4134 - Aspen, Spruce/Fir	Sapling Well	65.1	8	Immature	Stand was cut last entry and the regeneration is doing good. The wetter areas are a bit spotty.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
62	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	3.5	80	1-50	Non-productive swamp with tag alder.
66	4319 - Mixed Upland Forest	Poletimber Well	9.7	71	51-80	This stand was an optional unit for a sale last entry. Access was never found. A large seeping wet area and the railroad tracks block access to this stand.
73	4134 - Aspen, Spruce/Fir	Sapling Well	9.9	28	Immature	Decent aspen/conifer stand.
76	4134 - Aspen, Spruce/Fir	Sapling Well	24.8	13	Immature	OPIC - FMD: A3- 10-15' tall
79	4134 - Aspen, Spruce/Fir	Poletimber Well	43.5	56	111-140	A portion of the stand should be left as a buffer along wetland and for retention.
83	4134 - Aspen, Spruce/Fir	Sapling Well	3.3	25	Immature	Regeneration to great. Nice stand.
84	6122 - Black Spruce	Poletimber Medium	3.8	90	1-50	Stand is along a steep drop off from the aspen stand down to an lowland type. It has been left because of difficult access and it adds diversity to the area.
88	4136 - Aspen, Mixed Conifer	Sapling Well	15.5	8	Immature	The mature white pine was left. Aspen regeneration is doing good.
89	4134 - Aspen, Spruce/Fir	Poletimber Well	17.0	45	81-110	Decent Mackinac Mix stand, look at harvesting in ten years.
91	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	4.5	65	1-50	This was a portion of a previous timber sale that was left due to being extremely wet and poorly stocked. Look at harvesting in ten years when adjacent stand is ready.
94	42210 - Natural Red Pine	Sawtimber Medium	12.5	85	51-80	Red pine and white pine were left after last entry.
95	4133 - Aspen, Mixed Pine	Sapling Well	69.6	13	1-50	Regeneration is well established. Could take out red pine now.
97	42200 - Natural White Pine	Sawtimber Well	7.7	126	51-80	Stand was cut in 2002. All of the white pine and red pine were left. This stand has more white pine than red pine and has a high basal area than the stand to the north.
102	4110 - Sugar Maple Association	Poletimber Well	2.9	92	51-80	Stand was thinned in 2010. Most of the conifer and poor quality poles were removed. It was thinned down to 70 basal area.
104	4134 - Aspen, Spruce/Fir	Sapling Well	10.7	5	Immature	Stand was cut on 2010. Some larger birch seed trees were left. Primarily an aspen stand now.
105	6112 - Lowland Aspen	Poletimber Medium	10.2	71	51-80	This stand is surrounds an intermittent stream. It was left last time as a buffer and it is overall very poor quality.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
106	6112 - Lowland Aspen	Poletimber Medium	2.7	69	1-50	This stand was left as a buffer along Black River.
107	6111 - Lowland Balsam Poplar	Poletimber Medium	15.2	63	1-50	This stand is very wet and somewhat sparse. May want to leave until next entry to stagger cutting with adjacent stands more.
108	4130 - Aspen	Poletimber Well	73.7	31	1-50	Very nice aspen stand. It is just transitioning into a pole stand. There is still lots of sapling size trees.
109	4110 - Sugar Maple Association	Poletimber Well	31.9	103	81-110	Stand was thinned in 2009. Look at thinning again in ten years.
112	4134 - Aspen, Spruce/Fir	Sapling Well	7.2	20	Immature	Nice aspen stand. The regeneration is doing better than last entry. Most spots are now filled in.
114	4130 - Aspen	Poletimber Well	6.7	31	1-50	Very nice aspen stand. It is just transitioning into a pole stand. There is still lots of sapling size trees.
115	4134 - Aspen, Spruce/Fir	Sapling Well	17.5	7	Immature	Stand was cut in 2008. Mostly aspen Regeneration.
116	4134 - Aspen, Spruce/Fir	Poletimber Well	2.2	77	51-80	Stand is ready to harvest.
118	4130 - Aspen	Poletimber Well	4.9	85	81-110	Steep buffer Between the road and Black River.
120	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.6	122	51-80	This was a wet area of the original stand that was cut 24 years ago. It was left for retention and diversity.
121	4134 - Aspen, Spruce/Fir	Sapling Well	47.3	24	Immature	Nice aspen stand. All regeneration is doing good.
123	6122 - Black Spruce	Sapling Well	8.4	90	1-50	Very wet black spruce. Some cedar in the stand.
124	4136 - Aspen, Mixed Conifer	Sapling Well	39.6	8	Immature	Stand was cut in 2008 and 2009. Hemlock and cedar around the wet area and along the creek buffer. The north part was a red pine seed tree but it has mostly come back to aspen.
125	4134 - Aspen, Spruce/Fir	Poletimber Well	4.2	52	81-110	This stand could be cut now but it is healthy and will have better diameters in ten years.
126	42110 - Planted Red Pine	Sawtimber Well	2.0	85	111-140	This stand has been left as a buffer along the creek and for super canopy trees.
129	42110 - Planted Red Pine	Sapling Well	55.2	10	Immature	Monitor for release and pests.
132	42110 - Planted Red Pine	Sapling Well	20.7	23	Immature	Stand is doing great. Monitor for pests.

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Sault Ste. Marie Mgt. Unit

Report 8 – Forested Stands

Compartment: 164
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
133	4113 - R.Maple, Conifer	Sapling Medium	11.2	23	Immature	Upland Mackinac Mix stand heavy towards red maple. There was red oak planted in the stand 20 years ago but I didn't see any.
134	42110 - Planted Red Pine	Sapling Well	12.7	23	Immature	Red pine is doing great. Monitor for pests.
137	42110 - Planted Red Pine	Sawtimber Well	18.2	75	111-140	Stand was thinned in 2010. Look at thinning again next entry. Nice poles in the stand.
138	42110 - Planted Red Pine	Sapling Medium	48.1	5	Immature	Red pine is doing good. Monitor for release and pests.
140	4110 - Sugar Maple Association	Poletimber Well	1.2	85	81-110	Small hill of hardwood in the pine plantation. Adds nice diversity.
171	6139 - Mixed Lowland Forest	Poletimber Medium	10.7	100	1-50	Stand has been flooded for years. Most of the birch is dead.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	62259 - Bog (OI)	0.4	No	OPIC - FMD: Bog
3	62259 - Bog (OI)	6.7	No	OPIC - FMD: Bog
5	62241 - Treed Bog (OI)	17.5	No	OPIC - FMD: OI Stand Year Origin was
9	6299 - Lowland Shrub (OI)	9.1	No	OPIC - FMD: Mostly Black River and creeks flood plain.
13	62259 - Bog (OI)	3.3	No	OPIC - FMD: Bog
14	62259 - Bog (OI)	3.0	No	OPIC - FMD: Bog
16	62259 - Bog (OI)	1.7	No	OPIC - FMD: Bog
18	62259 - Bog (OI)	2.3	No	OPIC - FMD: Bog
20	62259 - Bog (OI)	2.1	No	OPIC - FMD: Bog
21	62259 - Bog (OI)	1.9	No	OPIC - FMD: Bog
23	62259 - Bog (OI)	5.9	No	OPIC - FMD: Bog
28	6299 - Lowland Shrub (OI)	28.5	No	OPIC - FMD: tag alder
30	6299 - Lowland Shrub (OI)	43.5	No	OPIC - FMD: tag alder
31	6299 - Lowland Shrub (OI)	1.8	No	OPIC - FMD: tag alder
36	6299 - Lowland Shrub (OI)	2.1	No	OPIC - FMD: tag alder
37	6299 - Lowland Shrub (OI)	1.0	No	OPIC - FMD: tag alder
39	6299 - Lowland Shrub (OI)	15.7	No	OPIC - FMD: tag alder
46	6299 - Lowland Shrub (OI)	2.2	No	OPIC - FMD: Mostly Black River and creeks flood plain.



Stand	Cover Type	Acres	Managed Site	General Comments:
49	62399 - Marsh (OI)	7.8	No	OPIC - FMD: OI Stand Year Origin was
51	6299 - Lowland Shrub (OI)	19.6	No	OPIC - FMD: Mostly Black River and creeks flood plain.
68	7909 - Nonstocked (OI)	20.6	No	OPIC - FMD: Edison Sault Pipe Line
69	6299 - Lowland Shrub (OI)	5.2	No	OPIC - FMD: Flooded out by beaver and railroad, natural drainage.
70	6299 - Lowland Shrub (OI)	3.2	No	OPIC - FMD: Flooded out by beaver and railroad, natural drainage.
72	6299 - Lowland Shrub (OI)	3.7	No	
74	62259 - Bog (OI)	1.2	No	OPIC - FMD: Bog
75	62259 - Bog (OI)	5.3	No	OPIC - FMD: Bog
78	6299 - Lowland Shrub (OI)	27.4	No	OPIC - FMD: Part tag alder part bog
80	62399 - Marsh (OI)	17.6	No	OPIC - FMD: Beaver marsh
81	6299 - Lowland Shrub (OI)	1.3	No	OPIC - FMD: Mostly Black River and creeks flood plain.
82	6299 - Lowland Shrub (OI)	2.3	No	OPIC - FMD: Mostly Black River and creeks flood plain.
92	62259 - Bog (OI)	1.4	No	OPIC - FMD: small Bog patches, steep ridges all around.
96	62259 - Bog (OI)	1.6	No	OPIC - FMD: small Bog patches, steep ridges all around.
98	6299 - Lowland Shrub (OI)	4.3	No	OPIC - FMD: Mostly Black River and creeks flood plain.
101	6299 - Lowland Shrub (OI)	206.1	No	OPIC - FMD: Mostly Black River and creeks flood plain.
139	3209 - Upland Shrub (OI)	1.0	No	OPIC - FMD: Cultivate with stand 138 - Under contract with adjacent stands on TP Pine 45-102-07-01.
142	62259 - Bog (OI)	1.9	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
143	62259 - Bog (OI)	1.0	No	
144	7909 - Nonstocked (OI)	6.0	No	OPIC - FMD: H-40
406	31029 - Grass (OI)	0.5	No	OPIC - FMD: Small knoll with some W. Birch, inaccessible for maintenance
410	31029 - Grass (OI)	11.2	Yes	OPIC - FMD: Filling in with spruce birch and jack pine. Not enough fuel to burn. Treat when 109 is harvested
417	31029 - Grass (OI)	7.7	No	Burned in 05 to convert U type back to G0. Lots of aspen and cherry in it now.
435	31029 - Grass (OI)	25.8	Yes	OPIC - FMD: Some knols of soft maple. Might be worth burning. Some thick patches of blue and black berries
447	31029 - Grass (OI)	11.0	Yes	OPIC - FMD: OI Stand Year Origin was
467	31029 - Grass (OI)	1.2	No	OPIC - FMD: Looks like it has been burned in the past. Not much encroching vegetation. Treat with adjacent stand.