



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45160

Entry Year 2019

Acreage: 1,866

County Mackinac

Management Area: Strickler Aspen

Revision Date: 2017-07-05

Stand Examiner: Cory Luoto

Legal Description:

T43N-R8W Sections 16, 17 & 21; Hudson Township

Identified Planning Goals:

This compartment is located 6 miles east and 1 mile north of Naubinway. The compartment and surrounding area is composed of a variety of different upland and lowland types and species. The aspen type within the compartment and the surrounding area has been managed extensively within the past 40 years. Most of the aspen within the compartment was harvested between 1972 and 1985. A large aspen type timber sale (Strickler Sale) was set up in the early 70's for Mead to supply wood to the new mill. Most of the aspen is now over the 5 inch diameter class. Some stands will be harvested to enhance the age class diversity of the aspen resources within the compartment.

Soil and topography:

The uplands are generally Caffey-Ingalls-Iosco complex, Iosco sand, and Pullup fine sand. Lowlands and swamps consist primarily of Spot-Finch complex, Finch-Dawson-Pullup complex, Markey-Spot-Finch complex, and Dawson and Loxley peats. Level lowlands to rolling uplands.

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

The east and south edges of the compartment are bordered by state land. The western edge is bordered by both state and private land. The northern edge has two large private land owners. In section 21 there is a five acre private parcel belonging to the pipeline. Most of the private land holding are primarily hunting camps.

Unique Natural Features:

There is a potential for some rare, threatened, and special concern plant and animal species to inhabit the compartment. Stands to be managed will be checked for species of concern. Management will be modified if species are found within those stands per management guidelines for that species.

Archeological, Historical, and Cultural Features:

None noted.

Special Management Designations or Considerations:

The potential exists for red-shouldered hawks in this area. If active nests are found, appropriate buffers and harvest timing limitations will be placed.

Watershed and Fisheries Considerations:

The East Branch of the Black River and Borgstrom Creek are found within this compartment. This river system supports a diverse trout community and is an important stream for migratory salmonids such as steelhead. Summer water temperatures are very good with temperatures typically in the low 60's F. Maintaining this habitat and water quality (groundwater) is critical for the fish community in the Black River watershed.

Wildlife Habitat Considerations:

This compartment is part of the Strickler Aspen Management Area (MA), and is located immediately west of the Strickler GEMS. Featured species in the MA include American woodcock, ruffed grouse, snowshoe hare, and white-tailed deer. Aspen and aspen mixed stands are dominant with spruce/fir being common in the understory, and most stands vary from upland to lowland settings within the stands. Some low areas contain vernal wetlands. Most aspen is of a similar age, and diversifying age classes is one of the wildlife objectives for the compartment. Treatments will aim to provide various age classes in close proximity, similar to the GEMS, to benefit ruffed grouse, woodcock, and snowshoe hare. Harvesting will occur during the winter so tops are available as browse for wintering deer. Frozen ground conditions will be necessary in wetter locations to prevent hydrological impacts from harvesting activities. Cedar and lowland mixed conifer stands will be maintained as cover for wintering deer. Hemlock and white pine will be left to provide habitat for a variety of wildlife. Wetlands and drainages will be buffered appropriately.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel pits are located in the area. There may be some sand potential but gravel potential appears to be limited. There may also be some dolostone potential. There is no current economic oil and gas production in the UP and there is no known metallic mineral potential in this region.

Vehicle Access:

The vehicle access is very good through most of the compartment. The Borgstrom Road is a paved county road that runs through the center of the compartment. The Flowing Well Road provides access into section 17. There are numerous two tracks running east into sections 16 and 21.

Survey Needs:

None.

Recreational Facilities and Opportunities:

The Black River State Forest Campground is just to the west and Hog Island State Forest Campground is to the southeast. The area is heavily used by fishermen, hunters, campers, berry and mushroom pickers, motorized vehicle users and nature viewers. The close proximity to the private lands and the campground makes the area more enticing for recreational users.

Fire Protection:

While the opportunity exists for wildfires within the compartment, none have been noted in recent years. The potential exists for a fire start; however this area is close to the Naubinway Office and has good vehicle access throughout most of the compartment. There is also the possibility of fire starts from people fishing along the river.

Additional Compartment Information:

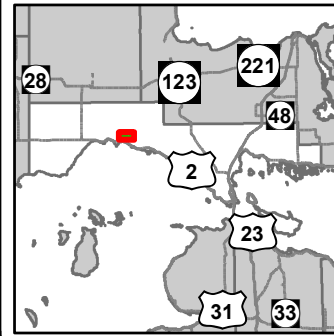
The following reports from the Inventory are attached:

- 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:

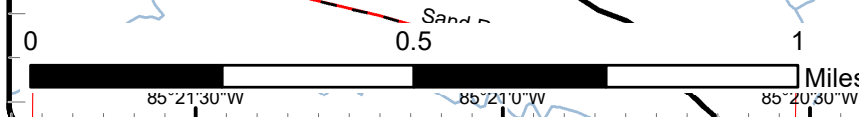
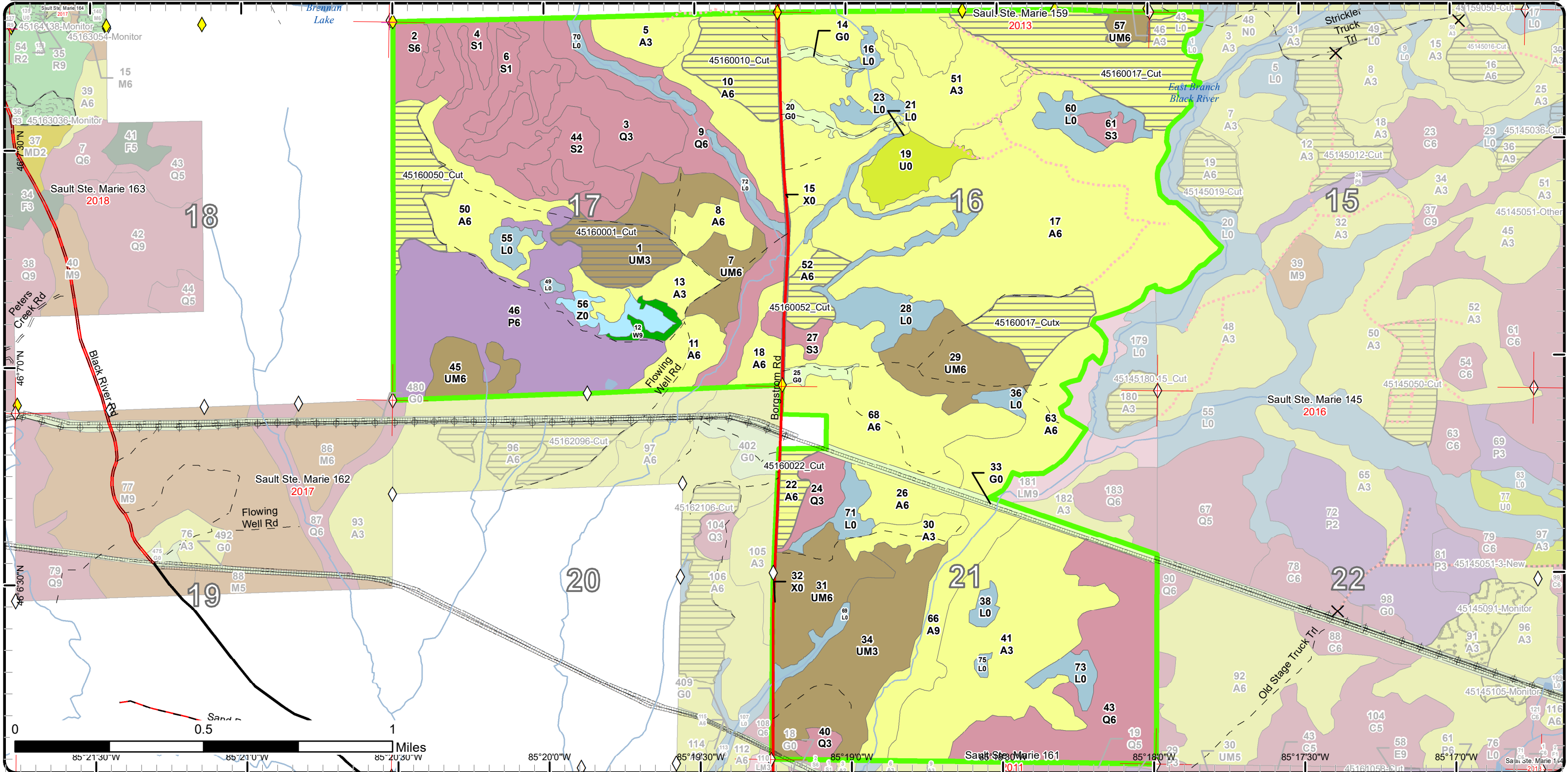
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



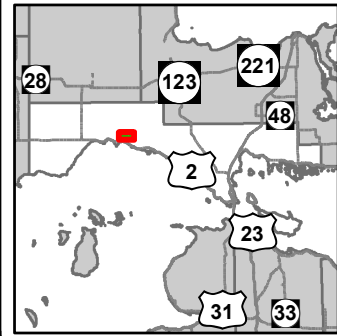
Compartment: 160
T43N, R08W, Sec: 16, 17, 21
County: Mackinac
Unit: Sault Ste. Marie
Mgmt Area: Strickler Aspen
YOE: 2019
Acres: 1865.7 GIS Calculated
Examiner: Cory Luoto
Map Revised: 8/11/2017
Map Phase: Review

- Miris Corners
- Remonumented Section Corners
- Survey Grade GPS Corners
- Field Grade GPS Corners
- Counties
- Gate
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- 413 - Aspen Types
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

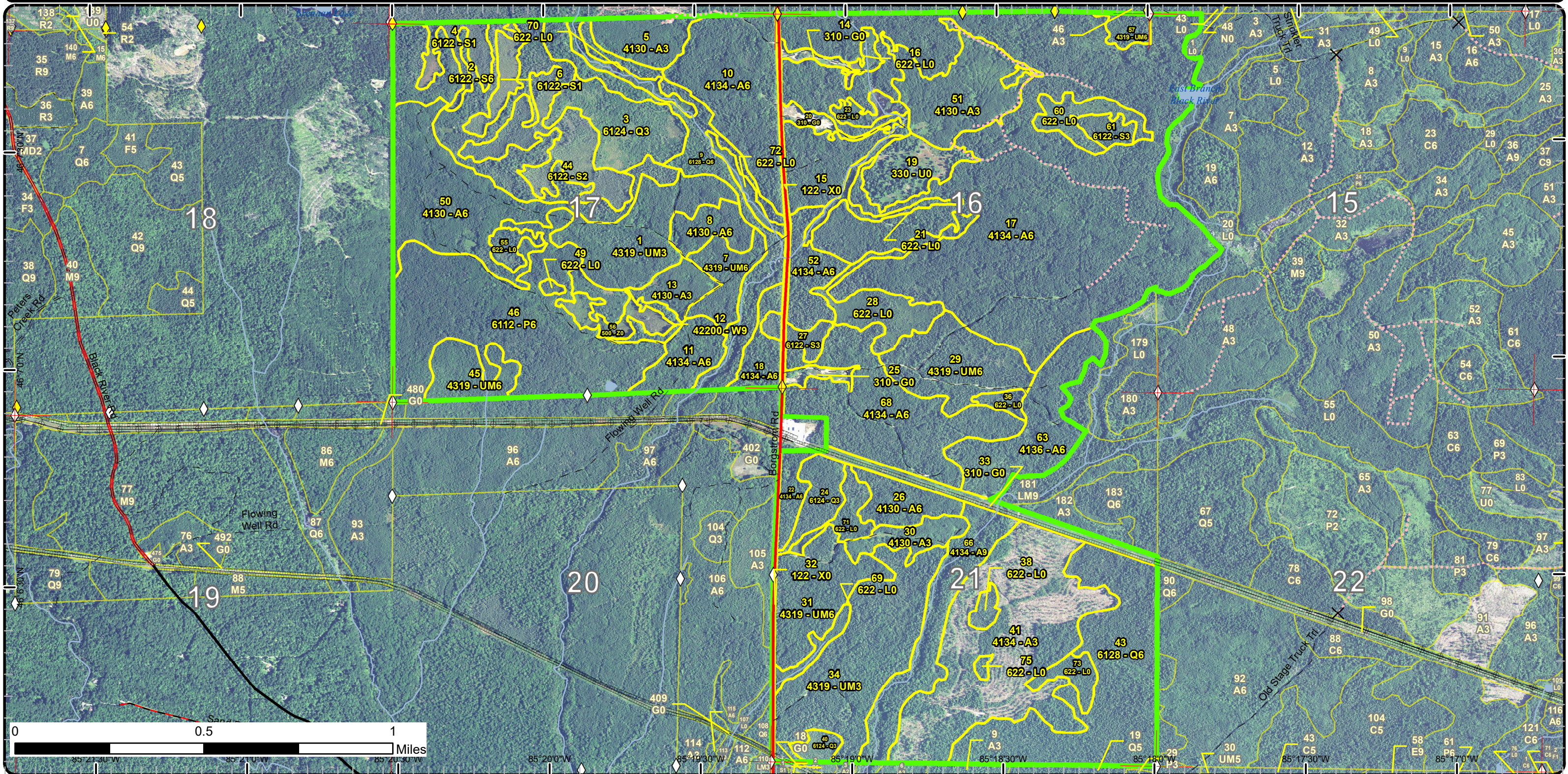


Stand Boundary Map

Compartment: 160
 T43N, R08W, Sec: 16, 17, 21
 County: Mackinac
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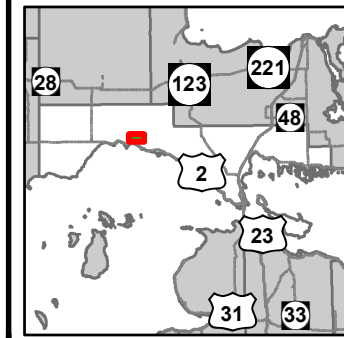


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
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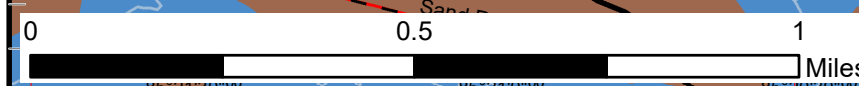
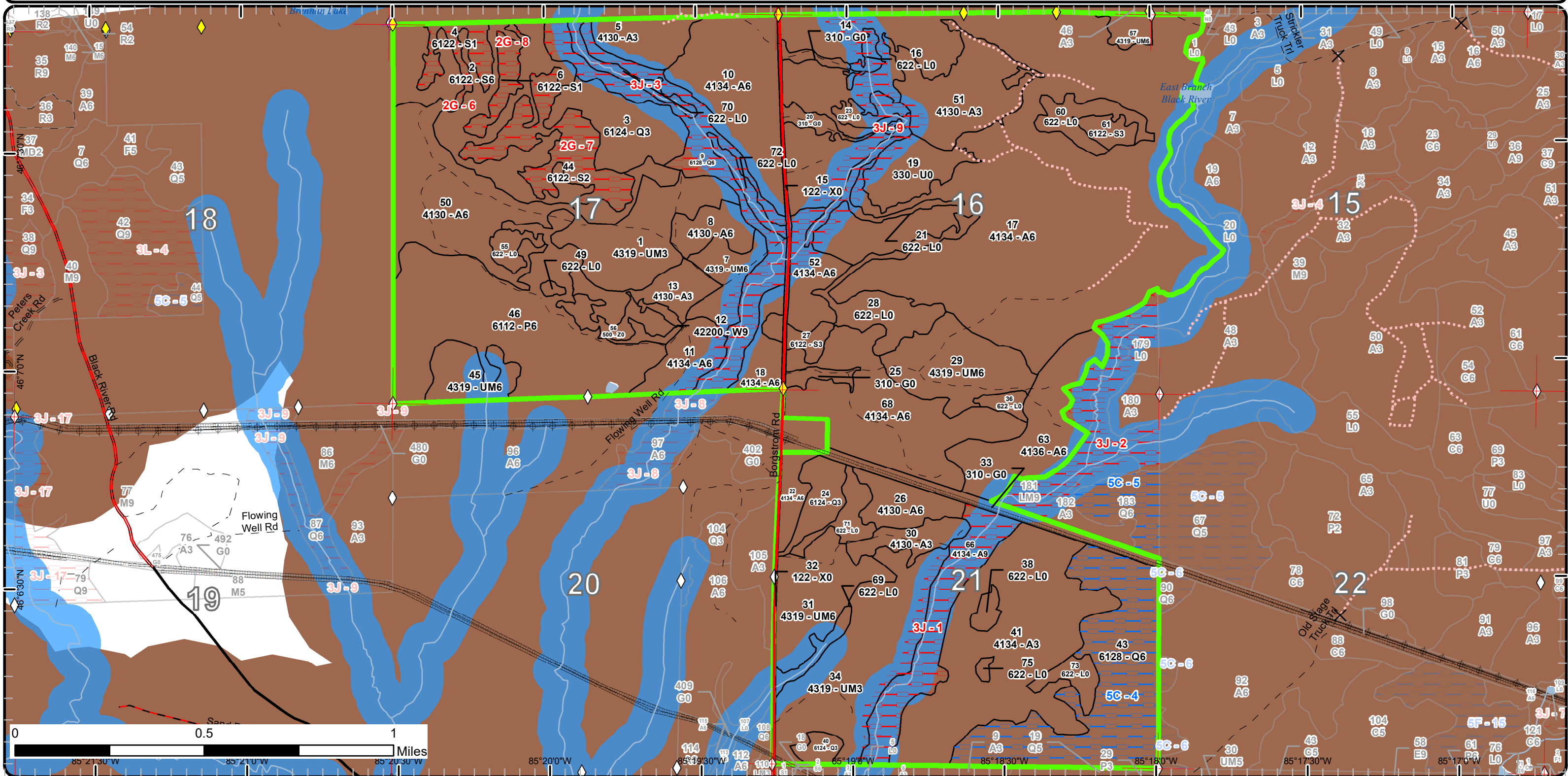


Special Conservation Areas & Site Conditions Map

Compartment: 160
 T43N, R08W, Sec: 16, 17, 21
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Strickler Aspen
 YOE: 2019
 Acres: 1865.7 GIS Calculated
 Examiner: Cory Luoto
 Map Revised: 8/11/2017
 Map Phase: Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
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- Counties
- X Gate
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- State Forest Campground



85°21'30"W 85°21'00"W 85°20'30"W 85°20'00"W 85°19'30"W 85°19'00"W 85°18'30"W 85°18'00"W 85°17'30"W 85°17'00"W

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	115	92	0	0	741	0	0	39	0	0	0	0	0	0	0	0	0	987
Herbaceous Openland	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Low-Density Trees	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Aspen/Balsam Poplar	0	0	0	0	0	119	0	0	0	0	0	0	0	0	0	0	0	0	119
Lowland Conifers	0	0	33	0	0	5	0	0	14	0	0	93	0	53	0	0	0	0	197
Lowland Shrub	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Lowland Spruce/Fir	0	0	0	0	0	60	13	70	0	0	0	0	0	0	0	0	0	0	142
Upland Mixed Forest	0	0	0	0	75	126	38	0	0	0	0	0	0	0	0	0	0	0	239
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	4
Total	176	115	125	0	75	1051	51	70	53	0	5	93	0	53	0	0	0	0	1864



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 160
Total Compartment Acres: 1,866

Commercial Harvest - 201
Harvests with Site Condition - 0
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	175	0	0	0	0	0	0	0	0	175
Upland Mixed Forest	26	0	0	0	0	0	0	0	0	26
Total	201	0	0	0	0	0	0	0	0	201

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	201	0	0	0	0	0	0	0	0	201
Next Step	0	0	0	0	0	0	201	0	0	201
Total	201	0	0	0	0	0	201	0	0	403



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
1	45160001_Cut	26.4	4319 - Mixed Upland Forest	Sapling Well	42	1-50	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Other

Comment:

Proposed Start Date: 10/01/2018

10	45160010_Cut	33.2	4134 - Aspen, Spruce/Fir	Poletimber Well	43	1-50	Harvest	Clearcut with Retention	413 - Aspen	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Other

Treatment size may vary depending on how the line is run.

Comment:

Proposed Start Date: 10/01/2018

17	45160017_Cut	67.9	4134 - Aspen, Spruce/Fir	Poletimber Well	42	1-50	Harvest	Clearcut with Retention	413 - Aspen	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Other

Treatment size may vary.

Comment:

Proposed Start Date: 06/26/2017

17	45160017_Cut x	24.9	4134 - Aspen, Spruce/Fir	Poletimber Well	42	1-50	Harvest	Clearcut with Retention	413 - Aspen	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Other

Treatment size may vary.

Comment:

Proposed Start Date: 06/26/2017



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
22 45160022_Cut	9.2	4134 - Aspen, Spruce/Fir	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	413 - Aspen	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).
Specs:

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

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

Other Comment:

Proposed Start Date: 10/01/2018

50 45160050_Cut	26.7	4130 - Aspen	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Other Comment: Treatment area may vary in size.

Proposed Start Date: 10/01/2018

52 45160052_Cut	13.0	4134 - Aspen, Spruce/Fir	Poletimber Well	42	1-50	Harvest	Clearcut with Retention	413 - Aspen	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Other Comment: Treatment size may vary depending on how the line is run.

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 201.3

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 160

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	3J
		With Condition	Not Available				
986	621	0	366	Aspen			366
28	27	0	1	Herbaceous Openland			1
21	18	0	3	Low-Density Trees			3
119	119	0	0	Lowland Aspen/Balsam Poplar			
197	51	93	53	Lowland Conifers	93		53
107	83	0	24	Lowland Shrub			24
143	84	0	60	Lowland Spruce/Fir		60	
239	226	0	13	Upland Mixed Forest			13
10	10	0	0	Urban			
10	10	0	0	Water			
5	5	0	0	White Pine			
1,866	1,254	93	519	Total Forested Acres	93	60	459
	67%	5%	28%	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	3J: Water quality / BMPs (stream, river, or lake)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 160

Year of Entry: 2019

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	93	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	48	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



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.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4319 - Mixed Upland Forest	Sapling Well	44.1	42	1-50	Mackinac mix stand. Stand has transitioned to poles. May want to cur some areas to add age class diversity in area. Some steeper hills within the stand.
2	6122 - Black Spruce	Poletimber Well	70.3	62	1-50	Swamp conifer stand surrounding extremely wet treed bogs. Has been left as a buffer around wet areas. Very steep slopes in areas.
3	6124 - Lowland Spruce-Fir	Sapling Well	32.5	14	Immature	Regen doing poorly. Really wet site.
4	6122 - Black Spruce	Sapling Poor	13.4	50	1-50	Sparse, wet black spruce. Very small diameters.
5	4130 - Aspen	Sapling Well	18.1	15	Immature	Regeneration doing great, pretty decent amount of birch.
6	6122 - Black Spruce	Sapling Poor	9.9	44	1-50	Wet spruce area. Some areas are very sparse.
7	4319 - Mixed Upland Forest	Poletimber Well	17.3	42	51-80	Mackinac mix stand - heavier to the spruce and balsam. Some larger - wolf aspen and spruce throughout the stand.
8	4130 - Aspen	Poletimber Well	13.8	42	51-80	Mackinac mix stand - heavier to the spruce and balsam. Some larger - wolf aspen and spruce throughout the stand.
9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	53.0	123	81-110	This stand should be left for a stream corridor.
10	4134 - Aspen, Spruce/Fir	Poletimber Well	58.0	43	1-50	Stand is very variable, larger diameters in some areas, tag alder understory in wet spots.
11	4134 - Aspen, Spruce/Fir	Poletimber Well	18.2	42	51-80	Mackinac mix stand - May want to cut to add some age class diversity.
12	42200 - Natural White Pine	Sawtimber Well	4.5	91	81-110	White pine stand along a wet area. Some steep areas.
13	4130 - Aspen	Sapling Well	18.7	16	Immature	Stand was chipped ing 2001, regeneration doing great.
17	4134 - Aspen, Spruce/Fir	Poletimber Well	409.1	42	1-50	Aspen regen doing great. 4' - 8' tall. Some larger scattered white pine.
18	4134 - Aspen, Spruce/Fir	Poletimber Well	12.7	47	51-80	Variable aspen stand. Some lower areas within the stand. Also a couple of pockets of black spruce and tamarack.
22	4134 - Aspen, Spruce/Fir	Poletimber Well	9.2	48	51-80	Lookat harvesting in 10-20 yrs.
24	6124 - Lowland Spruce-Fir	Sapling Well	13.6	73	1-50	Stand is very wet and of much poorer quality than the rest of the compartment.

Report 7 – Forested Stands

Compartment: 160
Year of Entry: 2019



Stand	Sault Ste. Marie Mgt. Unit		Report 7 – Forested Stands			Compartment: 160 Year of Entry: 2019
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4130 - Aspen	Poletimber Well	16.6	42	1-50	Nice young aspen stand. Balsam and spruce is lighter than other stands in compartment.
27	6122 - Black Spruce	Sapling Well	7.1	42	1-50	Very wet pocket in aspen area. Primarily black spruce and tamarack.
29	4319 - Mixed Upland Forest	Poletimber Well	39.5	42	1-50	
30	4130 - Aspen	Sapling Well	12.9	16	Immature	Stand was chipped in 2001. Regeneration is doing great.
31	4319 - Mixed Upland Forest	Poletimber Well	37.7	54	51-80	Nice aspen fir stand. Look at harvesting in the next 10-20 years.
34	4319 - Mixed Upland Forest	Sapling Well	75.1	37	1-50	Was previously the same as pre inventory stand 31, but the conifer component is more in this stand. And it is overall smaller diameters.
40	6124 - Lowland Spruce- Fir	Sapling Well	5.2	41	1-50	Wet spruce fir stand. About equal amounts of black and white spruce.
41	4134 - Aspen, Spruce/Fir	Sapling Well	114.8	1	Immature	Stand was cut in the winters of 2016 and 2017. A majority was cut in 2016.
43	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	92.8	103	51-80	Borderline between cedar and Mackinac mix. Look at harvesting in 20-30 yrs. Deer wintering complex - leave stand as cover for wintering deer.
44	6122 - Black Spruce	Sapling Medium	36.5	44	1-50	Wet spruce area. Some areas are very sparse.
45	4319 - Mixed Upland Forest	Poletimber Well	18.5	42	1-50	Mackinac mix stand - heavier to the spruce and balsam. Some larger - wolf aspen and spruce throughout the stand.
46	6112 - Lowland Aspen	Poletimber Well	119.0	42	1-50	Mackinac mix stand - heavier to aspen than conifer.
50	4130 - Aspen	Poletimber Well	63.9	42	51-80	Nice aspen stand. May want to cut a portion to add age class diversity in the area. Some cherry in the stand. Portions of stand are low and contain vernal wetlands.
51	4130 - Aspen	Sapling Well	41.8	16	Immature	This stand was chipped in 2001. Regeneration is doing great.
52	4134 - Aspen, Spruce/Fir	Poletimber Well	19.1	42	1-50	Aspen has transitioned into primarily poles. Some larger scattered white pine.
57	4319 - Mixed Upland Forest	Poletimber Well	6.3	42	51-80	Heavier to conifer with scattered large white pine.
61	6122 - Black Spruce	Sapling Well	6.3	42	1-50	Extremely wet area of spruce regeneration.

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Sault Ste. Marie Mgt. Unit

Report 7 – Forested Stands

Compartment: 160
Year of Entry: 2019



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4136 - Aspen, Mixed Conifer	Poletimber Well	44.8	42	1-50	A lot less conifer in this area of the compartment. Aspen is doing really good.
66	4134 - Aspen, Spruce/Fir	Sawtimber Well	39.1	72	111-140	This stand is the riparian zone and buffer for the East Branch of the Black River.
68	4134 - Aspen, Spruce/Fir	Poletimber Well	75.4	42	Unspecified	Stand is just transitioning into a pole stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
14	310 - Herbaceous Openland	3.2	No	
15	122 - Road/Parking Lot	6.6	No	
16	622 - Lowland Shrub	3.7	No	
19	330 - Low-Density Trees	21.0	No	
20	310 - Herbaceous Openland	5.5	No	
21	622 - Lowland Shrub	7.7	No	
23	622 - Lowland Shrub	6.1	No	
25	310 - Herbaceous Openland	4.3	No	
28	622 - Lowland Shrub	23.6	No	
32	122 - Road/Parking Lot	3.4	No	Was prweviously the same as pre inventory stan 32, but the balsam spruce component is more in this stand.
33	310 - Herbaceous Openland	15.4	No	Pipeline ROW.
36	622 - Lowland Shrub	4.0	No	alder, sphagnum, some larger cedar and sapling fir, black spruce around edges.
38	622 - Lowland Shrub	3.8	No	
49	622 - Lowland Shrub	1.2	No	alder wetland, some white birch.
55	622 - Lowland Shrub	5.8	No	alder, some larger tamarack and larger sapling to small pole red maple.
56	500 - Water	10.4	No	Leatherleaf bog, some sedges and standing snags, some open water areas in spring.
60	622 - Lowland Shrub	13.4	No	
69	622 - Lowland Shrub	5.5	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
70	622 - Lowland Shrub	7.5	No	
71	622 - Lowland Shrub	9.8	No	
72	622 - Lowland Shrub	5.4	No	
73	622 - Lowland Shrub	7.9	No	
75	622 - Lowland Shrub	1.3	No	



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45160

Entry Year 2019

Acreage: 1,866

County Mackinac

Management Area: Strickler Aspen

Revision Date: 2017-07-05

Stand Examiner: Cory Luoto

Legal Description:

T43N-R8W Sections 16, 17 & 21; Hudson Township

Identified Planning Goals:

This compartment is located 6 miles east and 1 mile north of Naubinway. The compartment and surrounding area is composed of a variety of different upland and lowland types and species. The aspen type within the compartment and the surrounding area has been managed extensively within the past 40 years. Most of the aspen within the compartment was harvested between 1972 and 1985. A large aspen type timber sale (Strickler Sale) was set up in the early 70's for Mead to supply wood to the new mill. Most of the aspen is now over the 5 inch diameter class. Some stands will be harvested to enhance the age class diversity of the aspen resources within the compartment.

Soil and topography:

The uplands are generally Caffey-Ingalls-Iosco complex, Iosco sand, and Pullup fine sand. Lowlands and swamps consist primarily of Spot-Finch complex, Finch-Dawson-Pullup complex, Markey-Spot-Finch complex, and Dawson and Loxley peats. Level lowlands to rolling uplands.

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

The east and south edges of the compartment are bordered by state land. The western edge is bordered by both state and private land. The northern edge has two large private land owners. In section 21 there is a five acre private parcel belonging to the pipeline. Most of the private land holding are primarily hunting camps.

Unique Natural Features:

There is a potential for some rare, threatened, and special concern plant and animal species to inhabit the compartment. Stands to be managed will be checked for species of concern. Management will be modified if species are found within those stands per management guidelines for that species.

Archeological, Historical, and Cultural Features:

None noted.

Special Management Designations or Considerations:

The potential exists for red-shouldered hawks in this area. If active nests are found, appropriate buffers and harvest timing limitations will be placed.

Watershed and Fisheries Considerations:

The East Branch of the Black River and Borgstrom Creek are found within this compartment. This river system supports a diverse trout community and is an important stream for migratory salmonids such as steelhead. Summer water temperatures are very good with temperatures typically in the low 60's F. Maintaining this habitat and water quality (groundwater) is critical for the fish community in the Black River watershed.

Wildlife Habitat Considerations:

This compartment is part of the Strickler Aspen Management Area (MA), and is located immediately west of the Strickler GEMS. Featured species in the MA include American woodcock, ruffed grouse, snowshoe hare, and white-tailed deer. Aspen and aspen mixed stands are dominant with spruce/fir being common in the understory, and most stands vary from upland to lowland settings within the stands. Some low areas contain vernal wetlands. Most aspen is of a similar age, and diversifying age classes is one of the wildlife objectives for the compartment. Treatments will aim to provide various age classes in close proximity, similar to the GEMS, to benefit ruffed grouse, woodcock, and snowshoe hare. Harvesting will occur during the winter so tops are available as browse for wintering deer. Frozen ground conditions will be necessary in wetter locations to prevent hydrological impacts from harvesting activities. Cedar and lowland mixed conifer stands will be maintained as cover for wintering deer. Hemlock and white pine will be left to provide habitat for a variety of wildlife. Wetlands and drainages will be buffered appropriately.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel pits are located in the area. There may be some sand potential but gravel potential appears to be limited. There may also be some dolostone potential. There is no current economic oil and gas production in the UP and there is no known metallic mineral potential in this region.

Vehicle Access:

The vehicle access is very good through most of the compartment. The Borgstrom Road is a paved county road that runs through the center of the compartment. The Flowing Well Road provides access into section 17. There are numerous two tracks running east into sections 16 and 21.

Survey Needs:

None.

Recreational Facilities and Opportunities:

The Black River State Forest Campground is just to the west and Hog Island State Forest Campground is to the southeast. The area is heavily used by fishermen, hunters, campers, berry and mushroom pickers, motorized vehicle users and nature viewers. The close proximity to the private lands and the campground makes the area more enticing for recreational users.

Fire Protection:

While the opportunity exists for wildfires within the compartment, none have been noted in recent years. The potential exists for a fire start; however this area is close to the Naubinway Office and has good vehicle access throughout most of the compartment. There is also the possibility of fire starts from people fishing along the river.

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**

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	115	92	0	0	741	0	0	39	0	0	0	0	0	0	0	0	0	987
Herbaceous Openland	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Low-Density Trees	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Aspen/Balsam Poplar	0	0	0	0	0	119	0	0	0	0	0	0	0	0	0	0	0	0	119
Lowland Conifers	0	0	33	0	0	5	0	0	14	0	0	93	0	53	0	0	0	0	197
Lowland Shrub	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Lowland Spruce/Fir	0	0	0	0	0	60	13	70	0	0	0	0	0	0	0	0	0	0	142
Upland Mixed Forest	0	0	0	0	75	126	38	0	0	0	0	0	0	0	0	0	0	0	239
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	4
Total	176	115	125	0	75	1051	51	70	53	0	5	93	0	53	0	0	0	0	1864



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 160
Total Compartment Acres: 1,866

Commercial Harvest - 201
Harvests with Site Condition - 0
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	175	0	0	0	0	0	0	0	0	175
Upland Mixed Forest	26	0	0	0	0	0	0	0	0	26
Total	201	0	0	0	0	0	0	0	0	201

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	201	0	0	0	0	0	0	0	0	201
Next Step	0	0	0	0	0	0	201	0	0	201
Total	201	0	0	0	0	0	201	0	0	403



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
1	45160001_Cut	26.4	4319 - Mixed Upland Forest	Sapling Well	42	1-50	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
10	45160010_Cut	33.2	4134 - Aspen, Spruce/Fir	Poletimber Well	43	1-50	Harvest	Clearcut with Retention	413 - Aspen	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.											
<u>Other Comment:</u> Treatment size may vary depending on how the line is run.											
<u>Proposed Start Date:</u> 10/01/2018											
17	45160017_Cut	67.9	4134 - Aspen, Spruce/Fir	Poletimber Well	42	1-50	Harvest	Clearcut with Retention	413 - Aspen	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.											
<u>Other Comment:</u> Treatment size may vary.											
<u>Proposed Start Date:</u> 06/26/2017											
17	45160017_Cut x	24.9	4134 - Aspen, Spruce/Fir	Poletimber Well	42	1-50	Harvest	Clearcut with Retention	413 - Aspen	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.											
<u>Other Comment:</u> Treatment size may vary.											
<u>Proposed Start Date:</u> 06/26/2017											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
22 45160022_Cut	9.2	4134 - Aspen, Spruce/Fir	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	413 - Aspen	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).
Specs:

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

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

Other Comment:

Proposed Start Date: 10/01/2018

50 45160050_Cut	26.7	4130 - Aspen	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Other Comment: Treatment area may vary in size.

Proposed Start Date: 10/01/2018

52 45160052_Cut	13.0	4134 - Aspen, Spruce/Fir	Poletimber Well	42	1-50	Harvest	Clearcut with Retention	413 - Aspen	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 100ft. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

Other Comment: Treatment size may vary depending on how the line is run.

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 201.3

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 160

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	5C	2G	3J
986	621	0	366	Aspen		366
28	27	0	1	Herbaceous Openland		1
21	18	0	3	Low-Density Trees		3
119	119	0	0	Lowland Aspen/Balsam Poplar		
197	51	93	53	Lowland Conifers	93	53
107	83	0	24	Lowland Shrub		24
143	84	0	60	Lowland Spruce/Fir		60
239	226	0	13	Upland Mixed Forest		13
10	10	0	0	Urban		
10	10	0	0	Water		
5	5	0	0	White Pine		
1,866	1,254	93	519	Total Forested Acres	93	459
	67%	5%	28%	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	3J: Water quality / BMPs (stream, river, or lake)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Compartment: 160

Cory Luoto : Examiner

Year of Entry: 2019

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	93	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	48	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



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.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4319 - Mixed Upland Forest	Sapling Well	44.1	42	1-50	Mackinac mix stand. Stand has transitioned to poles. May want to cur some areas to add age class diversity in area. Some steeper hills within the stand.
2	6122 - Black Spruce	Poletimber Well	70.3	62	1-50	Swamp conifer stand surrounding extremely wet treed bogs. Has been left as a buffer around wet areas. Very steep slopes in areas.
3	6124 - Lowland Spruce-Fir	Sapling Well	32.5	14	Immature	Regen doing poorly. Really wet site.
4	6122 - Black Spruce	Sapling Poor	13.4	50	1-50	Sparse, wet black spruce. Very small diameters.
5	4130 - Aspen	Sapling Well	18.1	15	Immature	Regeneration doing great, pretty decent amount of birch.
6	6122 - Black Spruce	Sapling Poor	9.9	44	1-50	Wet spruce area. Some areas are very sparse.
7	4319 - Mixed Upland Forest	Poletimber Well	17.3	42	51-80	Mackinac mix stand - heavier to the spruce and balsam. Some larger - wolf aspen and spruce throughout the stand.
8	4130 - Aspen	Poletimber Well	13.8	42	51-80	Mackinac mix stand - heavier to the spruce and balsam. Some larger - wolf aspen and spruce throughout the stand.
9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	53.0	123	81-110	This stand should be left for a stream corridor.
10	4134 - Aspen, Spruce/Fir	Poletimber Well	58.0	43	1-50	Stand is very variable, larger diameters in some areas, tag alder understory in wet spots.
11	4134 - Aspen, Spruce/Fir	Poletimber Well	18.2	42	51-80	Mackinac mix stand - May want to cut to add some age class diversity.
12	42200 - Natural White Pine	Sawtimber Well	4.5	91	81-110	White pine stand along a wet area. Some steep areas.
13	4130 - Aspen	Sapling Well	18.7	16	Immature	Stand was chipped ing 2001, regeneration doing great.
17	4134 - Aspen, Spruce/Fir	Poletimber Well	409.1	42	1-50	Aspen regen doing great. 4' - 8' tall. Some larger scattered white pine.
18	4134 - Aspen, Spruce/Fir	Poletimber Well	12.7	47	51-80	Variable aspen stand. Some lower areas within the stand. Also a couple of pockets of black spruce and tamarack.
22	4134 - Aspen, Spruce/Fir	Poletimber Well	9.2	48	51-80	Lookat harvesting in 10-20 yrs.
24	6124 - Lowland Spruce-Fir	Sapling Well	13.6	73	1-50	Stand is very wet and of much poorer quality than the rest of the compartment.

Report 7 – Forested Stands

Compartment: 160
Year of Entry: 2019



Stand	Sault Ste. Marie Mgt. Unit		Report 7 – Forested Stands			Compartment: 160 Year of Entry: 2019
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4130 - Aspen	Poletimber Well	16.6	42	1-50	Nice young aspen stand. Balsam and spruce is lighter than other stands in compartment.
27	6122 - Black Spruce	Sapling Well	7.1	42	1-50	Very wet pocket in aspen area. Primarily black spruce and tamarack.
29	4319 - Mixed Upland Forest	Poletimber Well	39.5	42	1-50	
30	4130 - Aspen	Sapling Well	12.9	16	Immature	Stand was chipped in 2001. Regeneration is doing great.
31	4319 - Mixed Upland Forest	Poletimber Well	37.7	54	51-80	Nice aspen fir stand. Look at harvesting in the next 10-20 years.
34	4319 - Mixed Upland Forest	Sapling Well	75.1	37	1-50	Was previously the same as pre inventory stand 31, but the conifer component is more in this stand. And it is overall smaller diameters.
40	6124 - Lowland Spruce-Fir	Sapling Well	5.2	41	1-50	Wet spruce fir stand. About equal amounts of black and white spruce.
41	4134 - Aspen, Spruce/Fir	Sapling Well	114.8	1	Immature	Stand was cut in the winters of 2016 and 2017. A majority was cut in 2016.
43	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	92.8	103	51-80	Borderline between cedar and Mackinac mix. Look at harvesting in 20-30 yrs. Deer wintering complex - leave stand as cover for wintering deer.
44	6122 - Black Spruce	Sapling Medium	36.5	44	1-50	Wet spruce area. Some areas are very sparse.
45	4319 - Mixed Upland Forest	Poletimber Well	18.5	42	1-50	Mackinac mix stand - heavier to the spruce and balsam. Some larger - wolf aspen and spruce throughout the stand.
46	6112 - Lowland Aspen	Poletimber Well	119.0	42	1-50	Mackinac mix stand - heavier to aspen than conifer.
50	4130 - Aspen	Poletimber Well	63.9	42	51-80	Nice aspen stand. May want to cut a portion to add age class diversity in the area. Some cherry in the stand. Portions of stand are low and contain vernal wetlands.
51	4130 - Aspen	Sapling Well	41.8	16	Immature	This stand was chipped in 2001. Regeneration is doing great.
52	4134 - Aspen, Spruce/Fir	Poletimber Well	19.1	42	1-50	Aspen has transitioned into primarily poles. Some larger scattered white pine.
57	4319 - Mixed Upland Forest	Poletimber Well	6.3	42	51-80	Heavier to conifer with scattered large white pine.
61	6122 - Black Spruce	Sapling Well	6.3	42	1-50	Extremely wet area of spruce regeneration.

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Sault Ste. Marie Mgt. Unit

Report 7 – Forested Stands

Compartment: 160
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4136 - Aspen, Mixed Conifer	Poletimber Well	44.8	42	1-50	A lot less conifer in this area of the compartment. Aspen is doing really good.
66	4134 - Aspen, Spruce/Fir	Sawtimber Well	39.1	72	111-140	This stand is the riparian zone and buffer for the East Branch of the Black River.
68	4134 - Aspen, Spruce/Fir	Poletimber Well	75.4	42	Unspecified	Stand is just transitioning into a pole stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
14	310 - Herbaceous Openland	3.2	No	
15	122 - Road/Parking Lot	6.6	No	
16	622 - Lowland Shrub	3.7	No	
19	330 - Low-Density Trees	21.0	No	
20	310 - Herbaceous Openland	5.5	No	
21	622 - Lowland Shrub	7.7	No	
23	622 - Lowland Shrub	6.1	No	
25	310 - Herbaceous Openland	4.3	No	
28	622 - Lowland Shrub	23.6	No	
32	122 - Road/Parking Lot	3.4	No	Was prweviously the same as pre inventory stan 32, but the balsam spruce component is more in this stand.
33	310 - Herbaceous Openland	15.4	No	Pipeline ROW.
36	622 - Lowland Shrub	4.0	No	alder, sphagnum, some larger cedar and sapling fir, black spruce around edges.
38	622 - Lowland Shrub	3.8	No	
49	622 - Lowland Shrub	1.2	No	alder wetland, some white birch.
55	622 - Lowland Shrub	5.8	No	alder, some larger tamarack and larger sapling to small pole red maple.
56	500 - Water	10.4	No	Leatherleaf bog, some sedges and standing snags, some open water areas in spring.
60	622 - Lowland Shrub	13.4	No	
69	622 - Lowland Shrub	5.5	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
70	622 - Lowland Shrub	7.5	No	
71	622 - Lowland Shrub	9.8	No	
72	622 - Lowland Shrub	5.4	No	
73	622 - Lowland Shrub	7.9	No	
75	622 - Lowland Shrub	1.3	No	