



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45183

Entry Year 2022

Acreage: 1,615

County Mackinac

Management Area: County Line Hardwoods

Revision Date: 2020-07-31

Stand Examiner: Andrew Krugh

Legal Description:

44N 11W SEC 8, SEC 9 SW, E1/2SE, SWSE, SEC 16 N1/2NW, NWNE, E1/2SW, SEC 17 N1/NW, NE, N1/SE, NESW, SEC 18 N1/2NE.

Identified Planning Goals:

This compartment is located about one-mile northeast of Curtis. A large part of the Black Creek Flooding lies within compartment boundaries. The majority of the compartment is lowland swamp conifer and cedar. Other timber types include lowland poplar, lowland hardwoods, northern hardwoods and aspen.

Soil and topography:

Lowlands and swamps consist primarily of Markey and Carbondale mucks, with Spot-Finch and Markey-Spot-Finch Complexes. Upland are generally Amadon-Rock outcrop complex, Menominee loamy sand, Wallace sand, and Paquin sand. Level lowlands to rolling uplands.

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

This compartment has state land to the north but is mostly surrounded by private land. Section 8 is entirely state owned while the remainder of the compartment has private land holding within its boundaries.

Unique Natural Features:

In this compartment there is an osprey nest, an eagle nest, a great blue heron rookery, and the Black Creek Wildlife Flooding.

Archeological, Historical, and Cultural Features:

There is an old logging camp in this compartment.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains the Black Creek Flooding and a reach of the lower Black Creek. The Black Creek Flooding supports a fish community of northern pike, largemouth bass, yellow perch, pumpkinseed sunfish, brown bullhead, and rock bass. Black Creek and the impoundment should also be buffered to ensure a supply of trees to provide woody material to the stream and impoundment for fish habitat.

Wildlife Habitat Considerations:

This compartment is part of the County Line Hardwoods management area where featured species include red shouldered hawk, ruffed grouse, black bear, northern goshawk, snowshoe hare and white-tailed deer. It includes a mix of forest types including northern hardwood, aspen, cedar, lowland mixed and lowland open stands. This management unit contains special conservation areas such as the Black Creek Wildlife Flooding (a large wetland complex) and obligate deer winter range near the flooding and northeast part of the management area known as the McMillan-Black Creek deer wintering complex. Occurrences for red shouldered hawk, bald eagle, osprey, and the plant goblin moonwort have been detected as has a great blue heron rookery.

Wildlife objectives include protection of species of concern and special conservation areas such as the wildlife flooding and the deer wintering areas, having winter cuts in timber sales that are in the deer yard to provide food, maintaining wetland and riparian areas by buffering with any treatment, following the deer wintering guidelines, monitoring/treating invasive plants where necessary and creating additional food and cover resources by planting or seeding (ex: wild rice, mast producing trees and shrubs).

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. The closest active sand/gravel pit is approximately three miles to the west. There appears to

be some potential for sand & gravel within the compartment, but there is abundant clay in the area and numerous wetlands, which could inhibit surface development. Bedrock limestone/dolostone is likely too deep here to have economic potential.

Vehicle Access:

H-33, a paved county road, and the Black Creek Flooding Road, a seasonal dirt road, access the compartment from the west. Sandtown Road is a gravel county road that runs along the southern border of compartment 183. There are also several two tracks and ice-roads that access the interior of the compartment.

Survey Needs:

North end of stand 46 if agreed to harvest. 44N 11W SEC 18 N1/2NE.

Recreational Facilities and Opportunities:

A groomed snowmobile trails runs through sections 16 and 17. Black Creek Flooding is heavily used for waterfowl hunting and also trapping.

Fire Protection:

Portage Township Fire department is the local volunteer agency that covers the area along with DNR. This area has increased potential then previous years because of logging that has occurred around the area.

Additional Compartment Information:

The following reports from the Inventory are attached:

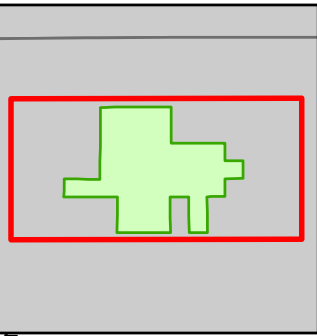
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

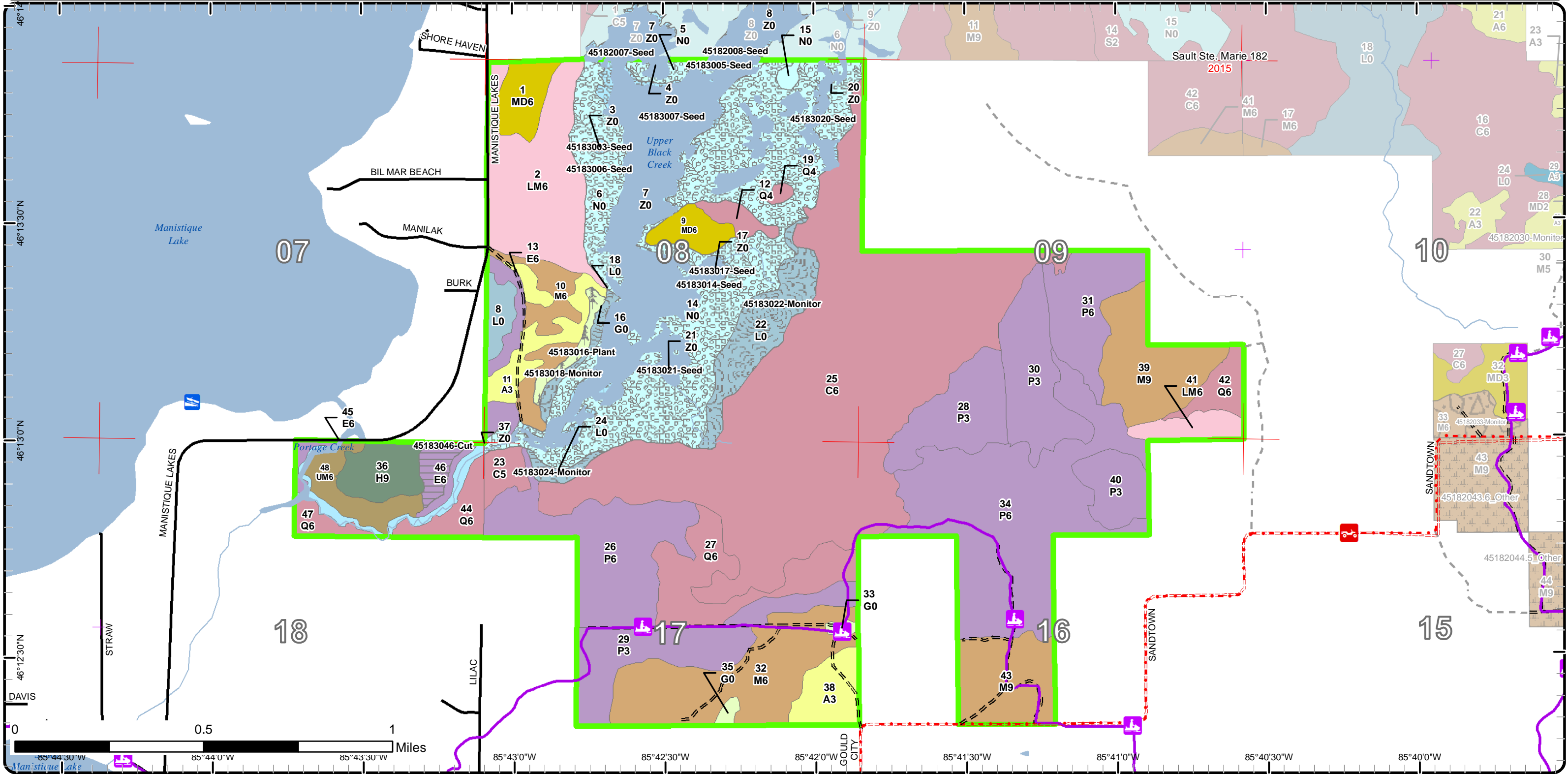
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 183
 T44N, R11W, Sec: 8, 9, 16-18
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: County Line
 Hardwoods
 YOE: 2022
 Acres: 1,615 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 8/12/2020
 Map Phase: Web Post

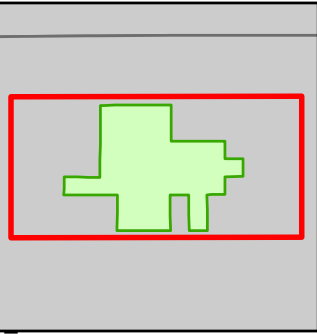


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- 🚗 ORV Routes
- 🚙 Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- 🚤 Boating Access Site
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Planting (tree species)
- Clearcut (w/Reserves)
- Seeding (tree species)
- Monitoring
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

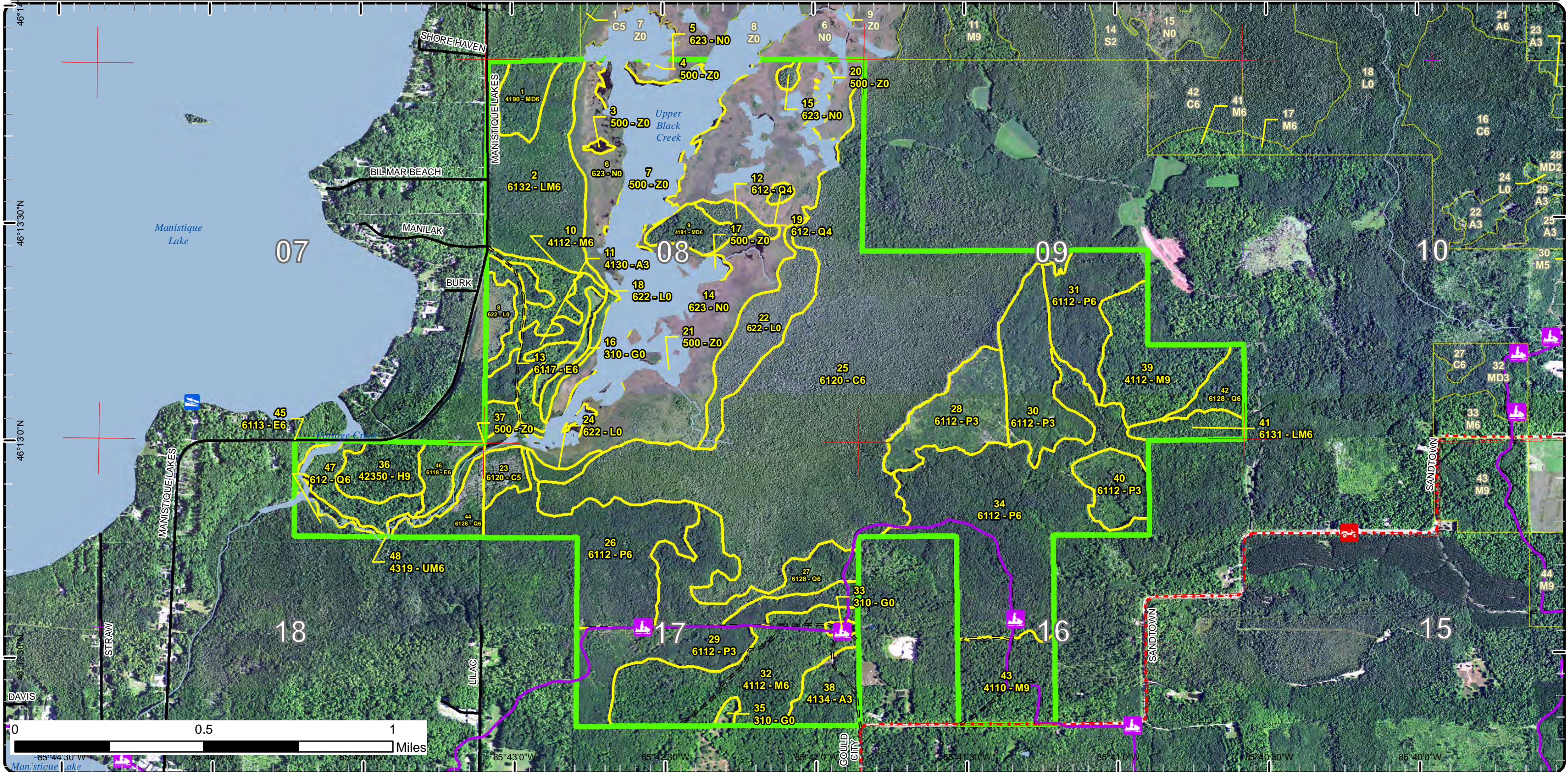


Stand Boundary Map

Compartment: 183
 T44N, R11W, Sec: 8, 9, 16-18
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: County Line
 Hardwoods
 YOE: 2022
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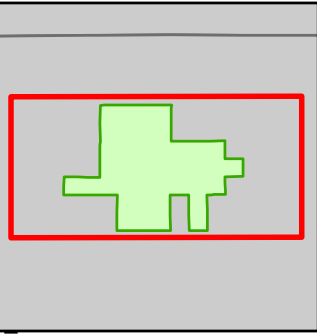


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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- Island in Lake or River
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- Stand Boundaries
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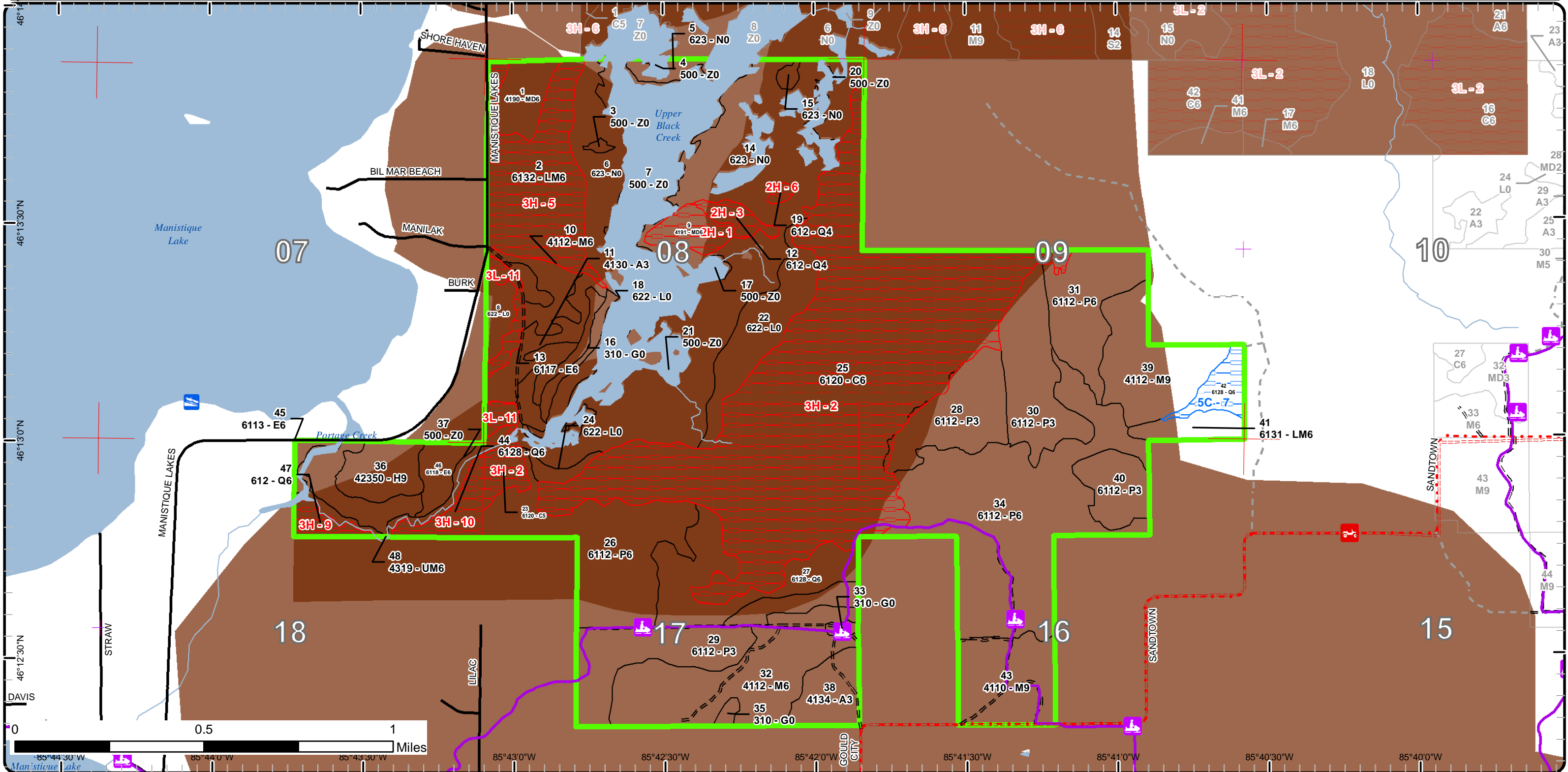


Special Conservation Areas

Compartment: 183
 T44N, R11W, Sec: 8, 9, 16-18
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: County Line
 Hardwoods
 YOE: 2022
 Acres: 1,615 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 8/12/2020
 Map Phase: Web Post



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- 🚤 Boating Access Site
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range
- Wildlife Management Areas



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	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Cedar	0	0	0	0	0	0	0	0	0	0	340	9	0	0	0	0	0	0	348
Hemlock	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	19
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	37	112	37	0	204	0	0	0	0	0	0	0	0	0	0	0	0	389
Lowland Conifers	0	0	0	0	0	0	43	0	0	0	41	0	0	0	0	0	0	0	84
Lowland Deciduous	0	0	0	0	0	0	0	0	0	11	15	0	0	0	0	0	0	0	26
Lowland Mixed Forest	0	0	0	0	0	0	0	12	0	68	0	0	0	0	0	0	0	0	80
Lowland Shrub	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Marsh	241	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	241
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	15	12	0	0	0	0	0	0	0	0	27
Northern Hardwood	0	0	0	0	0	0	0	92	0	38	44	0	0	0	0	0	0	0	174
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Water	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Total	411	37	112	37	39	204	43	104	15	129	457	28	0	0	0	0	0	0	1614



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 183
Total Compartment Acres: 1,615

Commercial Harvest - 8
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
Lowland Deciduous		8	0	0	0	0	0	0	0	0	8
	Total	8	0	0	0	0	0	0	0	0	8

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		8	0	6	337	0	0	44	0	0	394
Next Step		0	0	0	45	0	367	356	6	0	774
	Total	8	0	6	382	0	367	400	6	0	1168



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

3	45183003- Seed	1.1	500 - Water	Nonstocked		Unspec ified	Seeding	Hand Seed	500 - Water		No
<p><u>Prescription</u> Hand plant wild rice in areas of suitable habitat. <u>Specs:</u> <u>Next Step</u> Monitoring, Invasive Species <u>Treatments:</u> <u>Acceptable</u> Wild rice <u>Regen:</u> <u>Other</u> To provide additional food and cover resources for wildlife. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
4	45183004- Seed	1.0	500 - Water	Nonstocked		Unspec ified	Seeding	Hand Seed	500 - Water		No
<p><u>Prescription</u> Plant wild rice in areas of suitable habitat. <u>Specs:</u> <u>Next Step</u> Monitoring, Invasive Species <u>Treatments:</u> <u>Acceptable</u> wild rice <u>Regen:</u> <u>Other</u> To create additional food and cover resources for wildlife <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
5	45183005- Seed	6.6	623 - Emergent Wetland	Nonstocked			Seeding	Hand Seed	500 - Water		No
<p><u>Prescription</u> Hand plant wild rice in areas of suitable habitat. <u>Specs:</u> <u>Next Step</u> Monitoring, Invasive Species <u>Treatments:</u> <u>Acceptable</u> wild rice <u>Regen:</u> <u>Other</u> To increase food and cover resources for wildlife. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
6	45183006- Seed	42.4	623 - Emergent Wetland	Nonstocked			Seeding	Hand Seed	500 - Water		No
<p><u>Prescription</u> Hand seed wild rice via canoe, kayak, small watercraft or waders in areas of suitable habitat throughout Black Creek Flooding. <u>Specs:</u> <u>Next Step</u> Pesticide, Hand Application; Monitoring, Other - Specify <u>Treatments:</u> <u>Acceptable</u> wild rice <u>Regen:</u> <u>Other</u> To provide additional wildlife cover and food resources. May also enhance waterfowl hunting opportunities in this area once established, <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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7	45183007-Seed	87.0	500 - Water	Nonstocked		Unspecified	Seeding	Hand Seed	500 - Water		No
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Prescription Hand seed wild rice via canoe, kayak, small watercraft or waders in areas of suitable habitat throughout Black Creek Flooding.

Specs:

Next Step Pesticide, Hand Application; Monitoring, Other - Specify

Treatments:

Acceptable Wild rice

Regen:

Other To provide additional wildlife cover and food resources. May also enhance waterfowl hunting opportunities in this area once established.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

14	45183014-Seed	190.3	623 - Emergent Wetland	Nonstocked			Seeding	Hand Seed	500 - Water		No
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Prescription Hand seed wild rice via canoe, kayak, small watercraft or waders in areas of suitable habitat throughout black creek flooding.

Specs:

Next Step Monitoring, Other - Specify; Pesticide, Hand Application

Treatments:

Acceptable Wild rice

Regen:

Other To provide additional wildlife cover and food resources. May also enhance waterfowl hunting opportunities in this area once established.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

15	45183015-13-New	2.1	623 - Emergent Wetland	Nonstocked			Unspecified	ERROR	Unspecified		No
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Prescription

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

16	45183016-Plant	5.8	310 - Herbaceous Openland	Nonstocked		Unspecified	Planting	Interplant	330 - Low-Density Trees		No
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Prescription Hand plant mast producing trees and shrubs around the edges of the openings on the west side of Black Creek Flooding to provide additional wildlife food resources.

Specs:

Next Step Other, Other; Seeding, Hand Seed; Monitoring, Natural Regen (Intermediate); Monitoring, Invasive Species

Treatments:

Acceptable Opening with grasses and mast producing trees and shrubs such as oak, apple, serviceberry, etc.

Regen:

Other May protect planted trees and shrubs with fencing and tubes until the plants are established and can withstand browse. Fruiting trees and shrubs may need periodic pruning.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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17	45183017-Seed	2.5	500 - Water	Nonstocked		Unspecified	Seeding	Hand Seed	500 - Water	No
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Prescription Hand seed wild rice via canoe, kayak, small watercraft or waders in areas of suitable habitat throughout black creek flooding.
Specs:

Next Step Monitoring, Other - Specify; Pesticide, Hand Application
Treatments:

Acceptable Wild rice
Regen:

Other To provide additional wildlife cover and food resources. May also enhance waterfowl hunting opportunities in this area once established.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

18	45183018-Monitor	5.8	622 - Lowland Shrub	Nonstocked		Unspecified	Monitoring	Invasive Species	622 - Lowland Shrub	No
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Prescription Monitor for invasive plants and follow up with herbicide or mechanical means or treatment.
Specs:

Next Step Pesticide, Hand Application; Seeding, Hand Seed
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

20	45183020-Seed	4.4	500 - Water	Nonstocked			Seeding	Hand Seed	500 - Water	No
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Prescription Hand plant wild rice in areas of suitable habitat.
Specs:

Next Step Monitoring, Invasive Species
Treatments:

Acceptable wild rice
Regen:

Other To provide additional food and cover for wildlife.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

21	45183021-Seed	1.4	500 - Water	Nonstocked		Unspecified	Seeding	Hand Seed	500 - Water	No
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Prescription Hand seed wild rice via canoe, kayak, small watercraft or waders in areas of suitable habitat throughout black creek flooding.
Specs:

Next Step Monitoring, Other - Specify; Pesticide, Hand Application
Treatments:

Acceptable wild rice
Regen:

Other To provide additional wildlife cover and foos resources. May also enhance waterfowl hunting opportunities once established.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
22	45183022-Monitor	33.4	622 - Lowland Shrub	Nonstocked		Unspec ified	Monitoring	Invasive Species	622 - Lowland Shrub		No
<p><u>Prescription</u> Monitor for invasive plants. If needed follow up with herbicide or mechanical methods of treatment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Hand Application; Seeding, Hand Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
24	45183024-Monitor	4.3	622 - Lowland Shrub	Nonstocked		Unspec ified	Monitoring	Invasive Species	622 - Lowland Shrub		No
<p><u>Prescription</u> Monitor for invasive plants. Follow up with herbicide or mechanical methods of treatment if detected.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Hand Application</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
46	45183046-Cut	7.8	6118 - Lowland Deciduous with Cedar	Poletimber Well	86	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Winter harvest. 3-10% retention in pockets, focusing on areas with more cedar. Cut all trees 4 inches and greater. Leave some 1-3 large maple per acre where present. Leave all Cedar and Hemlock within stand. Winter harvest for deer wintering complex. Follow BMPs for creek</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> moderate to fully stocked mix of red maple, balsam fir, spruce, and cedar</p> <p><u>Regen:</u></p> <p><u>Other</u> Timber sale prep in winter. Reference point is a tree that should be left for wildlife reasons.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment 395.9
Acreage Proposed:

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 183

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions			
Acres	Available	With Condition	Not Available	5C	2H	3H	3L
39	39	0	0	Aspen			
349	0	0	349	Cedar		349	
19	19	0	0	Hemlock			
10	10	0	0	Herbaceous Openland			
390	389	0	1	Lowland Aspen/Balsam Poplar		1	
84	43	12	29	Lowland Conifers	12	9	20
26	14	0	12	Lowland Deciduous			12
80	12	0	68	Lowland Mixed Forest		68	
52	52	0	0	Lowland Shrub			
241	241	0	0	Marsh			
27	15	0	12	Mixed Upland Deciduous		12	
174	174	0	0	Northern Hardwood			
17	17	0	0	Upland Mixed Forest			
108	108	0	0	Water			
1,615	1,132	12	471	Total Forested Acres	12	20	439
	70%	1%	29%	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	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	350	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 183

Year of Entry: 2022

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard on purchased lands.							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Private to the east cut all off their merchantable trees. Suggest leaving for at least one more cycle until private property starts regenerating.							
9	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 183

Year of Entry: 2022

10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3L: Other wildlife concerns	12	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	15.2	72	51-80	N/A	Stand was thinned in 2006. Regen doing good.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole/Sap/Log	8	72	Red Maple	Low	Variable	Sapling
Paper Birch	20	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	20	Pole	6		Tag Alder	Low	Variable	Tall Shrub
Hemlock	10	Log/Pole	10		Beech	Medium	10 - 20 feet	Sapling

2	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	68.4	82	81-110	N/A	Very wet Mackinac Mix stand that has lots of cedar in it. Stand borders the Black Creek flooding.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Red Maple	Low	Variable	Sapling
Beech	5	Pole	7		Paper Birch	Low	Variable	Sapling
Paper Birch	10	Pole	6		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	15	Pole/Sapling	6		Northern White Cedar	Low	Variable	Sapling
Balsam Poplar	5	Pole/Sapling	5					
Balsam Fir	5	Pole/Sapling	5					
Northern White Cedar	40	Pole/Sapling	6	82				
Hemlock	5	Log	10					
Black Ash	5	Pole/Sapling	5					

3	500 - Water	Nonstocked	1.1		Unspecified	No	
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4	500 - Water	Nonstocked	1.0		Unspecified	No	
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5	623 - Emergent Wetland	Nonstocked	6.6			No	
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6	623 - Emergent Wetland	Nonstocked	42.4			No	
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7	500 - Water	Nonstocked	87.0		Unspecified	No	
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8	622 - Lowland Shrub	Nonstocked	8.6			No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	11.8	81	111-140	N/A	This stand is an island in the Black Creek Flooding. According to old records, there was an attempt to clearcut this stand to create a goose pature. After a skidder went through the ice the attempt was scrapped. There is still evidence of a couple of old deck piles on the island.																																																														
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10	4112 - Maple, Beech, Cherry Association	Poletimber Well	21.5	62	81-110	N/A	This stand was thinned in 2013. Low end of basal area range																																																														
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11	4130 - Aspen	Sapling Well	20.0	30	81-110	N/A	Nice aspen stand. This stand is comprised of several patches. Low end of basal area range.																																																														
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12	612 - Lowland Coniferous Forest	Poletimber Poor	6.8	90	51-80	N/A																																																															
13	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	12.0	94	81-110	N/A	This stand was part of Black Fly Hardwood. It is primarily a wet hardwood stand, but there is some hemlock and whitepine.																																																														
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14	623 - Emergent Wetland	Nonstocked	190.3			No																																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
15	623 - Emergent Wetland	Nonstocked	2.1			No																																										
16	310 - Herbaceous Openland	Nonstocked	5.8		Unspecified	No																																										
17	500 - Water	Nonstocked	2.5		Unspecified	No																																										
18	622 - Lowland Shrub	Nonstocked	5.8		Unspecified	No																																										
19	612 - Lowland Coniferous Forest	Poletimber Poor	1.8	90	51-80	N/A																																										
20	500 - Water	Nonstocked	4.4			No																																										
21	500 - Water	Nonstocked	1.4		Unspecified	No																																										
22	622 - Lowland Shrub	Nonstocked	33.4		Unspecified	No	scattered stagnate cedar with tag, cattails and phrag.																																									
23	6120 - Lowland Cedar	Poletimber Medium	8.5	101	51-80	N/A	Wet, sparce cedar stand. No thermal value at all.																																									
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25	6120 - Lowland Cedar	Poletimber Well	340.4	92	141-170	N/A	Nice cedar stand, no regen.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26 6112 - Lowland Aspen Poletimber Well 68.5 40 81-110 N/A Wet aspen stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	5		Balsam Fir	Medium	< 5 feet	Sapling
Yellow Birch	2	Sapling/Pole	4		Tag Alder	Low	Variable	Tall Shrub
Paper Birch	20	Sapling/Pole	4					
Quaking Aspen	40	Pole/Sapling	5	40				
Balsam Poplar	23	Sapling/Pole	4					
Balsam Fir	5	Sapling	3					
Northern White Cedar	5	Sapling	2					

27 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 42.8 50 141-170 N/A Wet Mackinac mix.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Sapling	6	50	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	20	Pole/Sapling	6	50	Black Spruce	Low	< 5 feet	Sapling
White Spruce	10	Pole/Sapling	5		Northern White Cedar	Low	< 5 feet	Sapling
Black Spruce	15	Pole/Sapling	6		Tag Alder	Low	Variable	Tall Shrub
Northern White Cedar	20	Sapling	4					
Quaking Aspen	10	Pole	7					

28 6112 - Lowland Aspen Sapling Well 36.5 6 Immature N/A Stand was cut in 2014.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	60	Sapling	1	6
Red Maple	20	Sapling	1	
Black Spruce	10	Sapling	1	
Balsam Fir	10	Sapling	1	

29 6112 - Lowland Aspen Sapling Well 51.2 16 Immature N/A This stand was originally 3 stands. The north portion was cut in 2001, the east in 2005, and the west in 2008. Regen throughout is doing great. There is also a few patches of cedar in the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Quaking Aspen	60	Sapling	2	16
Bigtooth Aspen	10	Sapling	2	
Balsam Fir	10	Sapling	2	
Northern White Cedar	8	Pole/Sapling	5	
Black Cherry	2	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 6112 - Lowland Aspen Sapling Well 41.1 11 Unspecified N/A Regen doing good.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Quaking Aspen	40	Sapling	1	11
Balsam Poplar	10	Sapling	1	11
Balsam Fir	40	Sapling	1	11

31 6112 - Lowland Aspen Poletimber Well 37.2 27 1-50 N/A Aspen is right at the edge of being pole size.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	80	Pole/Sapling	5	27	Quaking Aspen	Medium	10 - 20 feet	Sapling
Balsam Poplar	10	Sapling	3		Balsam Poplar	Low	5 - 10 feet	Sapling
Balsam Fir	4	Pole/Sapling	5		Ironwood	Medium	10 - 20 feet	Sapling
White Spruce	4	Pole/Sapling	5					
Hemlock	1	Log	15					
Red Maple	1	Pole	6					

32 4112 - Maple, Beech, Cherry Association Poletimber Well 70.4 66 81-110 N/A Stand was thinned in 2004, regen doing great.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Pole/Log	9	66	Sugar Maple	High	5 - 10 feet	Sapling
Red Maple	35	Pole/Log	8		Beech	Medium	5 - 10 feet	Sapling
Beech	5	Log	11					
Bigtooth Aspen	5	Pole	7					

33 310 - Herbaceous Openland Nonstocked 1.8 Unspecified No

34 6112 - Lowland Aspen Poletimber Well 135.8 44 111-140 N/A Leave stand for age and size class diversity for the area. This stand should hold until next cycle.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
Paper Birch	10	Pole	7					
Quaking Aspen	55	Pole	7	44				
Balsam Fir	10	Pole	5					
White Spruce	10	Pole/Sapling	5					
Black Ash	5	Pole/Sapling	5					

35 310 - Herbaceous Openland Nonstocked 2.0 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36	42350 - Upland Hemlock	Sawtimber Well	19.2	101	81-110	N/A	Mostly large hemlock
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Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	70	Log	12	101
Balsam Fir	10	Pole/Log	8	
Yellow Birch	10	Pole/Log	9	
Red Maple	10	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling

37	500 - Water	Nonstocked	10.2	0	Unspecified	No	
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38	4134 - Aspen, Spruce/Fir	Sapling Well	18.7	34	111-140	N/A	Nice aspen stand, formerly had some U types but have filled in to be part of this stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Sapling	2	34
Bigtooth Aspen	10	Sapling	2	
Balsam Fir	20	Sapling	3	
White Spruce	10	Sapling	3	
Red Maple	10	Sapling	2	
Sugar Maple	10	Sapling	3	

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

39	4112 - Maple, Beech, Cherry Association	Sawtimber Well	43.9	95	51-80	N/A	This stand was part of the Snopony timber sale. It was cut in 2002. It was accessed through the Grooter property. Deer are browsing this stand fairly heavy.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log	13	95
Red Maple	20	Log	11	
Basswood	10	Log	12	
Beech	4	Log	12	
White Pine	5	XLog	18	
Black Cherry	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	< 5 feet	Sapling
Beech	High	< 5 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Hemlock	Low	10 - 20 feet	Sapling

40	6112 - Lowland Aspen	Sapling Well	19.5	13	Immature	N/A	Stand was cut in the winter of 2007. Regen coming up nicely.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Sapling	1	
Quaking Aspen	50	Sapling	1	13
Balsam Fir	15	Sapling	1	13
White Spruce	5	Sapling	1	
Northern White Cedar	10	Sapling	2	
Red Maple	10	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41 6131 - Hemlock, White Pine, Maple, Birch Poletimber Well 11.8 66 81-110 N/A Wet Mackinac mix stand. Hemlock ridge running through center of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	7	66	Red Maple	Low	Variable	Sapling
Balsam Poplar	10	Pole	6		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	20	Pole	6		Tag Alder	Low	Variable	Tall Shrub
Northern White Cedar	10	Pole/Sapling	5					
Hemlock	20	Log	10					
Yellow Birch	20	Pole/Log	8					

42 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 11.7 98 81-110 N/A mostly cedar yellow birch and balsam fir with some red maple and large over mature aspen scattered around

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	10	Pole	7		Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	20	Pole	7					
Northern White Cedar	45	Pole/Sapling	7	98				
Quaking Aspen	5	Log	16					
Balsam Poplar	10	Pole	7					
Red Maple	10	Pole	6					

43 4110 - Sugar Maple Association Sawtimber Well 38.0 81 51-80 N/A Stand was thinned in 2014. Regen doing great.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	73	Log/Pole	11	81	Sugar Maple	High	Variable	Sapling
Red Maple	10	Pole/Log	8		Beech	Medium	5 - 10 feet	Sapling
Basswood	10	Log	12		Balsam Fir	Low	Variable	Sapling
Beech	2	Log	12					
White Pine	5	Log	14					

44 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 13.3 91 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Sapling/Pole	4		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	20	Pole	6					
Black Spruce	20	Sapling	4					
Northern White Cedar	40	Pole/Sapling	7	91				

45 6113 - Lowland Maple Poletimber Well 3.1 91 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole/Log	9	91	Red Maple	Low	< 5 feet	Sapling
Sugar Maple	40	Pole/Log	8					
Paper Birch	10	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46 6118 - Lowland Deciduous with Cedar Poletimber Well 10.8 86 81-110 N/A Mostly red maple with some balsam fir, birch and cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole/Log	9	86	Beech	Low	5 - 10 feet	Sapling
Yellow Birch	10	Pole	6		Northern White Cedar	Low	10 - 20 feet	Sapling
Paper Birch	10	Pole	5		Balsam Fir	Low	10 - 20 feet	Sapling
Northern White Cedar	20	Pole/Log	8		Black Spruce	Low	10 - 20 feet	Sapling
Balsam Poplar	10	Pole	5					

47 612 - Lowland Coniferous Forest Poletimber Well 7.1 91 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	60	Pole/Sapling	7		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole	5					
Green Ash	10	Pole/Log	8					
Red Maple	20	Pole/Log	8					

48 4319 - Mixed Upland Forest Poletimber Well 17.2 90 81-110 N/A Upland with lowland along the river.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	10	Pole/Log	9	101	Red Maple	Low	10 - 20 feet	Sapling
Red Maple	20	Pole/Log	8	90	Beech	Medium	5 - 10 feet	Sapling
Balsam Fir	20	Pole/Log	8		Sugar Maple	Low	< 5 feet	Sapling
Northern White Cedar	20	Pole	8					
Beech	5	Pole/Log	9					
Yellow Birch	10	Pole/Log	9					
Sugar Maple	15	Pole/Log	9					