



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45154

Entry Year 2020

Acreage: 1,906

County Mackinac

Management Area: Sage Truck Trail

Revision Date: 2018-08-01

Stand Examiner: Cory Luoto

Legal Description:

T44N-R08W Sections 8, 9 & 10; Hudson Township

Identified Planning Goals:

This area is located 4 miles north of Garnet. This compartment is in the The Sage Truck Trail Management Area. The southern and western portion of this compartment shows to be in a wintering deer area. Close to one half of the compartment is composed of cedar, mixed swamp conifer, lowland shrub, bogs and water. Some past harvesting in the cedar/swamp conifer stands has shown little benefit due to the poor timber quality of the stands and lack of reproduction in previously cut stands. Focus remains on the aspen/birch and mixed deciduous component of the compartment, which has been actively managed for the past 30 years.

Soil and topography:

The majority of the lowlands are Markey-Spot-Finch complex associated with the lowland conifer and deciduous stands with higher islands of Paquin sand and Pullup fine sand; and Dawson and Loxley peats associated with the bogs. Upland areas are generally flat to very rolling and include Paquin and Wallace sands and Paquin-Spot and Paquin-Finch complex, with smaller areas of Ingalls fine sand, Borgstrom sand and Glawe silt.

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

The compartment is entirely in state ownership. The surrounding compartments are in state ownership except for two private forties in one compartment. The private forties have seasonal camps. There are no permanent residences within the surrounding area.

Unique Natural Features:

Headwaters of a tributary of the East Branch Sage River. There is a potential for rare, threatened or endangered plant and animal species and natural communities within this compartment.

Archeological, Historical, and Cultural Features:

Old logging camp found within compartment.

Special Management Designations or Considerations:

Buffer left along East Branch Sage River. The southern and western portion of the compartment is within the deer wintering area.

Watershed and Fisheries Considerations:

The East Branch of the Sage River flows through portions of this compartment. None of the streams are designated trout streams. Standard BMP's should be applied when working near surface water.

Wildlife Habitat Considerations:

This compartment is part of the Sage Truck Trail MA where featured wildlife species include American marten, black bear, ruffed grouse, snowshoe hare, and white-tailed deer. Lowland conifers, particularly cedar, dominate much of the central portion of the compartment. Aspen, red pine, and northern hardwoods are common in upland areas. Much of the compartment is in deer wintering complex. Lowland conifer stands will be left to provide cover for wildlife, including wintering deer. Aspen stands vary in age, with most being young. These stands benefit grouse, woodcock, hare, deer, bear, and other species, and will be left to mature during this entry. Mast trees and shrubs will be retained to provide food sources to bear, deer, and other species. Wetlands and streams will be buffered with any treatments to protect these systems.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand & gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Silurian Burnt Bluff and Manistique Groups subcrop below the glacial drift. The Burnt Bluff is quarried for stone/limestone in the UP. The Dollar Lake gravel pit is located in Section 20, but potential in the

Compartment appears to be limited. There is no current economic oil and gas production in the UP.

Vehicle Access:

Most upland areas have road access. Borgstrom Road, a paved county all season road runs through compartment. Old drainage ditches running parallel to the road, approximately 60 feet in on either side, make access difficult to stands adjacent to the road. Some access to proposed harvest stands will need permission from the Mackinac County Road Commission to open old roads off the Borgstrom Road. Dollar Lake Road (Old Hendricks Road) is a non-maintained.

Survey Needs:

No survey needs.

Recreational Facilities and Opportunities:

The area is used for a variety of hunting, trapping, berry picking, and vehicle recreation activities.

Fire Protection:

This compartment is a low fire danger area. The area is normally wet with a low potential for a fire start. The muck soils will make mop-up difficult if there was a start in the lowlands. The vehicle access for part of the compartment is difficult but the upland areas are accessible. Moderate response times to the compartment because of county and state road access.

Additional Compartment Information:

The following reports from the Inventory are attached:

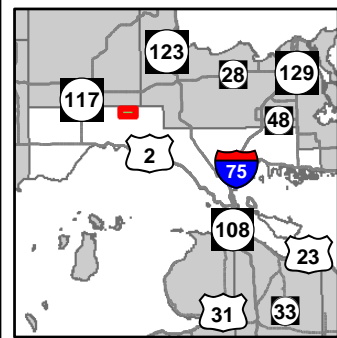
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

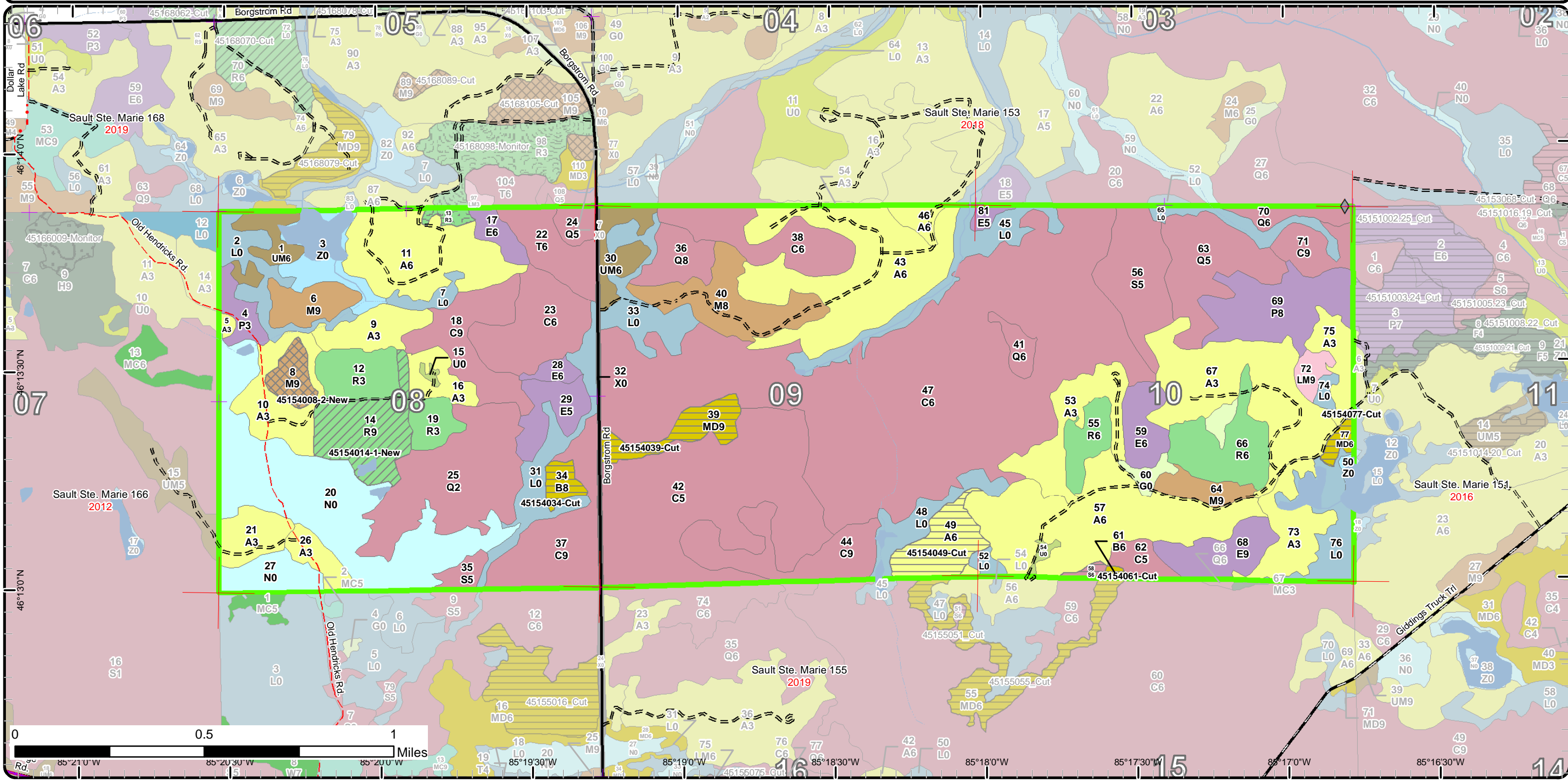
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 154
 T44N, R08W, Sec: 08-10
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Sage Truck Trail
 YOE: 2020
 Acres: 1,906 GIS Calculated
 Examiner: Cory Luoto
 Map Revised: 12/13/2018
 Map Phase: Post Review

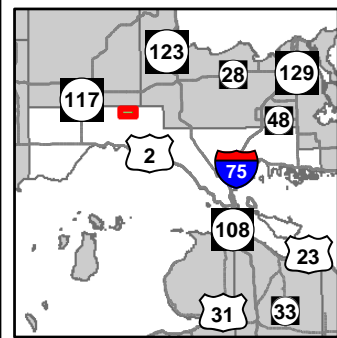


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Monitoring
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

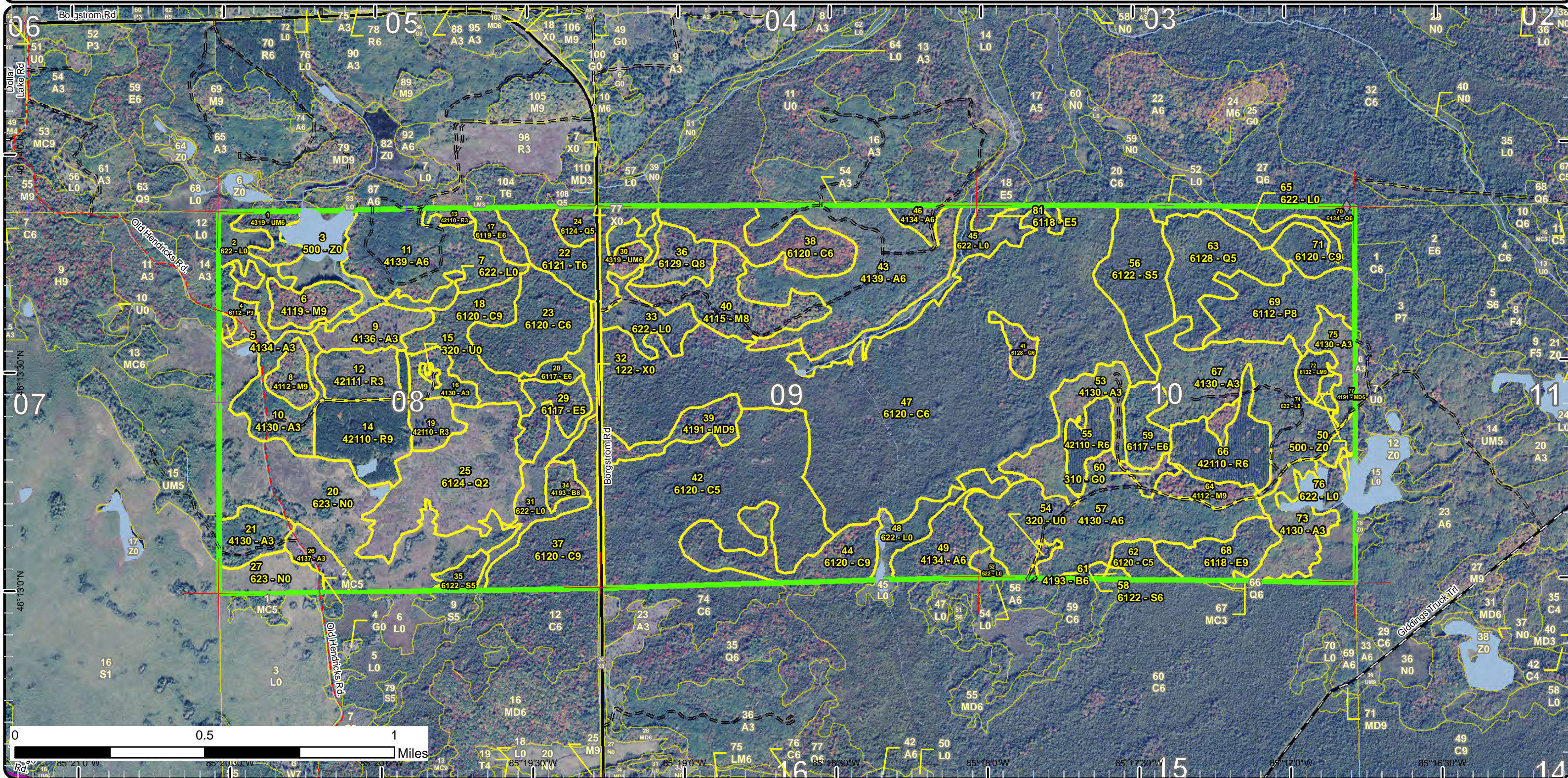


Stand Boundary Map

Compartment: 154
 T44N, R08W, Sec: 08-10
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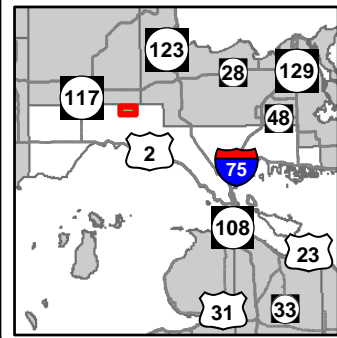


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- Lakes and Rivers All
- Compartment Boundary
- Stand Boundaries
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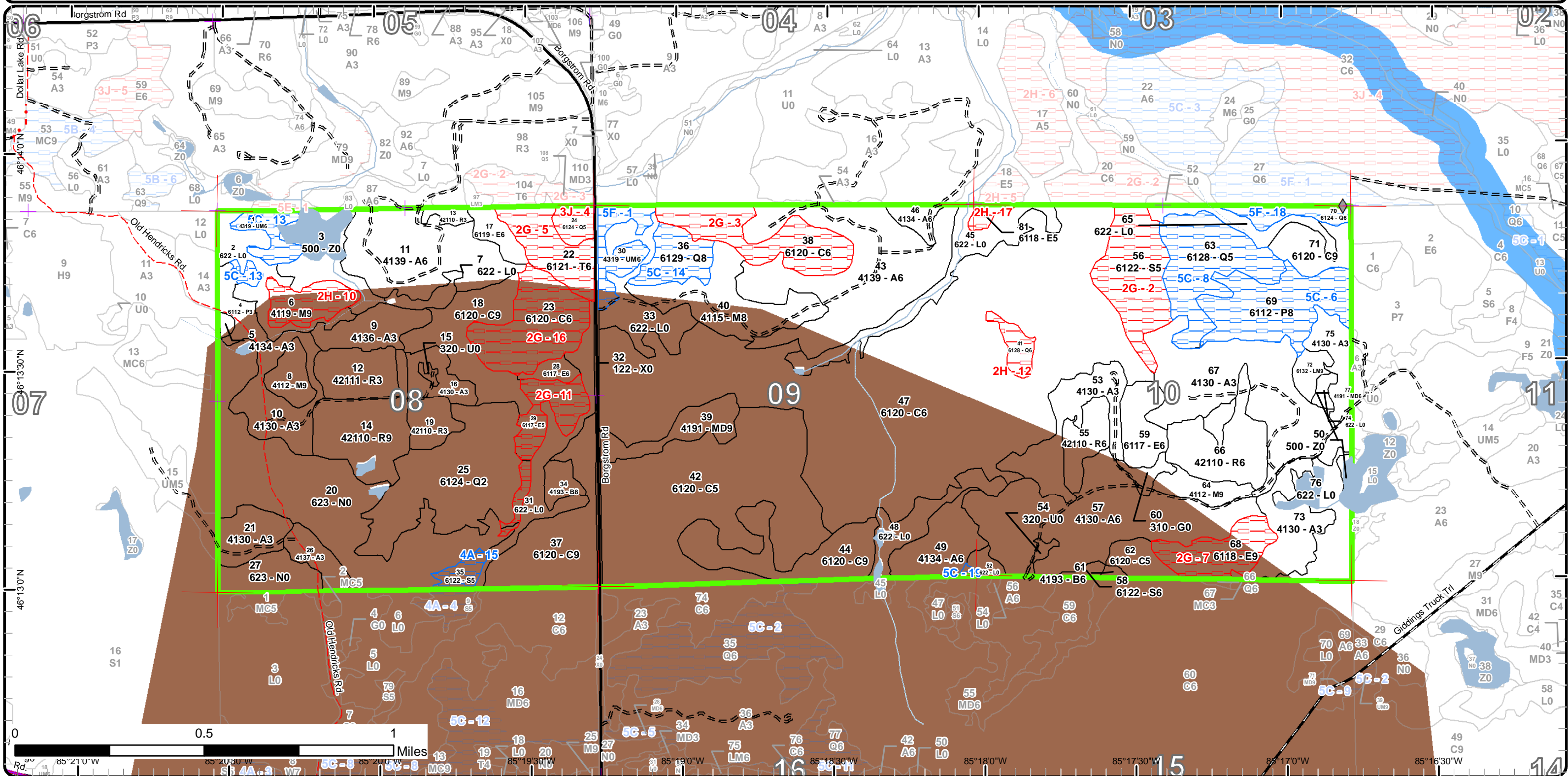


Special Conservation Areas & Site Conditions Map

Compartment: 154
 T44N, R08W, Sec: 08-10
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Sage Truck Trail
 YOE: 2020
 Acres: 1,906 GIS Calculated
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- Miris Corners
 - + Remonumented Section Corners
 - ◆ Field Grade Corners
 - Counties
 - DNR - Primary Forest Road
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 - Federal / State / County - Paved Road
 - County - Gravel Road
 - County - Dirt Road (Seasonal)
 - Private - Dirt / Gravel Road
 - Intermittent Stream
 - Island in Lake or River
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers All
 - Compartment Boundary
 - Available w/ Constraints
 - Unavailable
 - Stand Boundaries
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer
 - Deer Winter Range
- 4A: No Markets Available for these Forest Products
 5C: Delay treatment for age/size class diversity or exceptional site quality
 2G: Too wet (sensitive soils, does not include access issues)
 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
 3J: Water quality / BMPs (stream, river, or lake)



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	9	78	118	208	0	0	21	0	0	0	0	0	0	0	0	0	0	434
Cedar	0	0	0	0	0	0	0	0	0	0	0	39	0	566	0	35	0	0	639
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	9	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	47
Lowland Conifers	0	62	0	0	0	0	8	0	6	0	6	0	38	15	0	0	0	0	135
Lowland Deciduous	0	0	0	0	0	4	0	30	14	0	16	0	0	0	0	0	0	0	64
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Lowland Shrub	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	6	2	34	0	0	0	0	0	0	42
Marsh	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	16	4	0	0	0	0	0	0	20
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	10	23	33	0	0	0	0	0	66
Paper Birch	0	0	0	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	7
Red Pine	0	3	28	0	39	0	32	0	0	0	0	0	0	0	0	0	0	0	102
Tamarack	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
Upland Mixed Forest	0	0	0	0	0	0	0	13	0	0	0	0	0	12	0	0	0	0	25
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Total	300	74	115	118	247	4	40	102	20	26	56	107	71	593	0	35	0	0	1907



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 154
Total Compartment Acres: 1,906

Commercial Harvest - 90
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	20	0	0	0	0	0	0	0	0	20
Lowland Spruce/Fir	2	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	20	0	0	0	0	0	0	0	0	20
Northern Hardwood	0	9	0	0	0	0	0	0	0	9
Paper Birch	7	0	0	0	0	0	0	0	0	7
Red Pine	0	0	0	0	0	32	0	0	0	32
Total	49	9	0	0	0	32	0	0	0	90

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	90	0	0	0	0	0	3	0	0	93
Next Step	0	0	0	0	0	6	61	0	0	67
Total	90	0	0	0	0	6	64	0	0	160



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
8	45154008-2-New	9.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all juneberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present. Winter cut only. Because of deer yard.								
<u>Specs:</u>											
<u>Next Step</u>			Monitoring, Natural Regen (Re-Inventory)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			maple, cherry, beech, paper and yellow birch, basswood, aspen and ironwood.								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/1 /2019								
13	45154013-Monitor	3.0	42110 - Planted Red Pine	Sapling Well	7	Immature	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Monitor for herbicide use.								
<u>Specs:</u>											
<u>Next Step</u>			Pesticide, (Inactive)Aerial; Monitoring, Herbicide Use; Pesticide, (Inactive)Aerial								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Red Pine								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/1 /2009								
14	45154014-1-New	31.9	42110 - Planted Red Pine	Sawtimber Well	57	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Thin to around 120 Basal Area. Leave species diversity within the stand were present.								
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable Regen:</u>											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/1 /2019								
34	45154034-Cut	5.8	4193 - Birch, Aspen	Sawtimber Medium	91	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Clearcut with reserves following the retention guideline. Some paper birch and white pine should be retained for seed trees and future snags. As per wildf: winter cut only - deer yard. Leave a healthy representative tree spaced every 75'.								
<u>Specs:</u>											
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, black spruce, cedar, tamarack and white pine.								
<u>Other Comment:</u>			The stand has difficult (wet) access off the Borgstrom Road. Will need MCRC permission to improve old existing access road. Was part of Double Trouble Mix that didn't sell. Cut with compartment 155 stands 51 and 55. Acreage may vary due to ground conditions and old red paint that should be refreshed.								
<u>Proposed Start Date:</u>			10/4 /2017								



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
39	45154039-Cut	15.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	99	111-140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut with reserves following the retention guideline. Some paper birch should be retained for seed trees and future snags. Other species may be left as appropriate to follow retention guidelines. As per wildlife: winter cut only - within deer yard, no cut of cedar (10% of canopy) or w pine (5% of canopy), maintain cedar/hemlock inclusions, buffer vernal ponds appropriately (BMP).

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

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

Other Comment: The access is difficult (wet) into this stand. Permission from MCRC is necessary to improve old access road into stand. Part of Double Trouble Mix that didn't sell. Acreage will vary depending on ground conditions and old red line that should be refreshed. Cut with compartment 155 stand 51 and 55 due to access.

Proposed Start Date: 10/4 /2017

49	45154049-Cut	20.2	4134 - Aspen, Spruce/Fir	Poletimber Well	66	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut this stand with adjacent stand 55 in compartment 155 because of access. Some areas will not be harvested for retention. Budding trees will be left along edges, especially against the younger aspen age classes. As per wldlf - vernal ponds found will be buffered appropriately (BMP). All conifer < 4" dbh will be left. Retain component of spruce. Leave some wolfy aspen. Winter cut only - deer yard.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Aspen, paper birch, white spruce, red maple, balsam fir.

Other Comment: Cut with stands 51 and 55 in compartment 155. Mixed and variable species components within the stand. Was Double Trouble Mix that didn't sell. Old treatment information copied over to this treatment. Treatment size will vary to ground conditions, old line still there but needs refreshing.

Proposed Start Date: 10/4 /2017

58	45154058-Cut	1.9	6122 - Black Spruce	Poletimber Well	97	141-170	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut this stand with adjacent stand 61 and with stand 55 in compartment 155 because of access. Some areas will not be harvested for retention. As per wldlf - Vernal ponds will be buffered appropriately (BMP). Retain conifer < 4" dbh. Winter cut only - deer yard. Leave a healthy representative tree spaced every 75'.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Other Comment: Cut with stands 51 and 55 compartment 155. Mostly a black spruce stand with some other components within the stand. This is part of Double Trouble Mix that didn't sell. Old red line still there that should be refreshed. Acreage may vary due to ground conditions and old red line.

Proposed Start Date: 10/4 /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
61 45154061-Cut	1.1	4193 - Birch, Aspen	Poletimber Well	106	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut this stand with stand 58 and with adjacent stand 55 in compartment 155 because of access. Some areas will not be harvested for retention.

Specs: Budding trees will be left along edges, especially against the younger aspen age classes. Vernal ponds found within the stand will be buffered appropriately (BMP). Cedar and white pine could be left if needed for retention. All conifer < 4 inches at dbh will be left. Leave some wolfy aspen. As per wildlife, all white pine. Leave a healthy representative tree spaced every 75'.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

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

Other Comment: Cut with stands 51 and 55 in compartment 155. Part of Double Trouble Mix that didn't sell. Acreage may vary with ground conditions and old red line that should be refreshed. Mixed and variable species components within the stand.

Proposed Start Date: 10/1 /2009

77 45154077-Cut	3.9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	102	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Some areas will not be harvested for retention. Budding trees will be left along edges, especially against the younger aspen age classes. White pine could be left if needed for retention. All conifer < 4 inches at dbh will be left. Leave some wolfy aspen. South portion between wetland stand will not be cut for retention as per wildlife.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

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

Other Comment: Small stand with a very small portion into compartment 151. Very diverse species components within this stand. There is heavy balsam fir and maple regeneration in areas. Was part of Double Trouble Mix. Cut with stands 51 and 55 in compartment 155 due to access. Treatment size may vary due to ground conditions and old red line paint that should be refreshed.

Proposed Start Date: 10/4 /2017

Total Treatment Acreage Proposed: 92.7

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 154

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		4A	5C	5F	2G	2H	3J	
434	434	1	0	Aspen		1					
638	573	0	65	Cedar				65			
8	8	0	0	Herbaceous Openland							
47	9	38	0	Lowland Aspen/Balsam Poplar		38					
135	62	61	13	Lowland Conifers		52	8		6	6	
64	26	0	38	Lowland Deciduous				36	3		
6	6	0	0	Lowland Mixed Forest							
147	123	0	24	Lowland Shrub				24			
41	2	6	34	Lowland Spruce/Fir	6			34			
110	15	0	96	Marsh				96			
20	20	0	0	Mixed Upland Deciduous							
66	52	0	14	Northern Hardwood					14		
7	7	0	0	Paper Birch							
102	102	0	0	Red Pine							
20	0	0	20	Tamarack				20			
25	0	25	0	Upland Mixed Forest		12	13				
3	3	0	0	Upland Shrub							
7	7	0	0	Urban							
25	25	0	0	Water							
1,905	1,471	130	304	Total Forested Acres	6	103	22	275	23	6	
	77%	7%	16%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5F: Evaluated for Forest Health Considerations	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Monitoring for SBW							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 154

Year of Entry: 2020

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 154

Year of Entry: 2020

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 154

Year of Entry: 2020

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	4A: No Markets Available for these Forest Products	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet, sparce stand. Not commercially harvestable at this time.							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5F: Evaluated for Forest Health Considerations	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4319 - Mixed Upland Forest	Poletimber Well	11.5	123	111-140	Mixed stand with variable species. Stand is surrounded by water and wetland. It should be left.
4	6112 - Lowland Aspen	Sapling Well	8.8	11	Unspecified	Aspen regeneration is doing really well.
5	4134 - Aspen, Spruce/Fir	Sapling Well	1.4	25	Unspecified	Cut in 1993 on Old Hendricks Birch II. Most of the stand is in comp 166 stand 11.
6	4119 - Mixed Northern Hardwoods	Sawtimber Well	14.0	101	111-140	Poor quality red maple stand.
8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.3	108	111-140	Heavy regeneration present. Ready to be cut.
9	4136 - Aspen, Mixed Conifer	Sapling Well	15.8	11	Immature	Some large white pine were left when stand was harvested.
10	4130 - Aspen	Sapling Well	23.5	26	Immature	Nice regeneration.
11	4139 - Aspen, Mixed Deciduous	Poletimber Well	49.3	37	51-80	Light understory within the stand but lots of ground flora.
12	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	17.8	16	Immature	Red Pine is doing good. Some areas have a lot of aspen.
13	42110 - Planted Red Pine	Sapling Well	3.0	7	Immature	Stand is part of a larger stand in the compartment to the north.
14	42110 - Planted Red Pine	Sawtimber Well	31.9	57	171-200	Thinned in 1996. Few cherry within the stand. Ready to be thinned again.
16	4130 - Aspen	Sapling Well	10.7	26	Immature	Good regeneration was cut in 1992. Few white pine and paper birch regenerating within the stand.
17	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	7.3	67	111-140	Stand is wet. North of stand in comp 168 was cut with good regen present.
18	6120 - Lowland Cedar	Sawtimber Well	31.0	126	81-110	Cedar regeneration on the blowdown. Variable stand and wet.
19	42110 - Planted Red Pine	Sapling Well	9.9	16	Immature	Converted spruce plantation. Chipped in 2001 and planted in 2002.
21	4130 - Aspen	Sapling Well	14.5	26	Immature	Cut in 1992 with some pine left and few open areas.
22	6121 - Tamarack	Poletimber Well	20.2	89	51-80	This stand is very wet with a mixture of species.

S t a n d	Sault Ste. Marie Mgt. Unit		Report 7 – Forested Stands			Compartment: 154 Year of Entry: 2020	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		
23	6120 - Lowland Cedar	Poletimber Well	34.7	149	81-110	Beaver activity and heavy blowdown areas.	
24	6124 - Lowland Spruce- Fir	Poletimber Medium	6.3	73	51-80	Small creek in the stand. Some open areas with only tag alder. Wet stand of mixed species.	
25	6124 - Lowland Spruce- Fir	Sapling Medium	61.5	8	Immature		
26	4137 - Aspen, Birch	Sapling Well	9.3	6	Immature		
28	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	4.1	40	51-80	Variable regeneration with some beaver activity within the stand. Wet stand.	
29	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	15.6	99	51-80	Lowland stand that was cut over previously with the cedar being removed. Heavy understory.	
30	4319 - Mixed Upland Forest	Poletimber Well	13.3	63	51-80	Part of stand was cut in 1977 with residual left. One hardwood island within the stand.	
34	4193 - Birch, Aspen	Sawtimber Medium	5.8	91	51-80	Old road goes to stand off Borgstrom Road which is wet getting into the stand. Mortality occur to the birch and aspen.	
35	6122 - Black Spruce	Poletimber Medium	5.6	86	Unspecified	Used remote call from stand 9 of comp 154. Non merchantable site with a few higher areas that have some paper birch, balsam fire, and white pine.	
36	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	14.6	125	51-80	Shelterwood cut in 04-05. Stand is wet. Some good regeneration.	
37	6120 - Lowland Cedar	Sawtimber Well	38.5	101	111-140	Some blowdown.	
38	6120 - Lowland Cedar	Poletimber Well	30.7	121	111-140	Blowdown within the stand. It is also very wet.	
39	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.6	99	111-140	Stand is already on proposal.	
40	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	33.3	115	51-80	Stand was Shelterwood cut in 2004. Lots of regeneration.	
41	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	6.2	91	81-110	Island of Mackinac mix surrounded by large cedar stand.	
42	6120 - Lowland Cedar	Poletimber Medium	121.2	125	81-110	Wet cedar stand with some open areas.	
43	4139 - Aspen, Mixed Deciduous	Poletimber Well	80.4	33	51-80	Cut in 1985. Nice regeneration in most areas.	





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	6120 - Lowland Cedar	Sawtimber Well	33.3	122	141-170	Large low swamp type. Pockets of blowdown and root sprung trees. Some small upland areas as microsites in the stand. Also some tag alder areas within the stand.
46	4134 - Aspen, Spruce/Fir	Poletimber Well	5.5	29	1-50	Partial cut portion of Old Cistern timber sale.
47	6120 - Lowland Cedar	Poletimber Well	327.3	123	81-110	Wet stand with some blowdown of the cedar. Mortality occurring to the paper birch and balsam poplar.
49	4134 - Aspen, Spruce/Fir	Poletimber Well	21.0	66	Unspecified	Variable Mackinac mix stand with rolling terrain. Some areas are a little more conifer. Few wet areas. Stand is already on proposal.
53	4130 - Aspen	Sapling Well	26.7	16	Immature	Great aspen regeneration.
55	42110 - Planted Red Pine	Poletimber Well	12.3	34	141-170	Stand was thinned in 2010.
56	6122 - Black Spruce	Poletimber Medium	34.0	102	51-80	Some cedar regeneration. Stand is wet. Few open areas.
57	4130 - Aspen	Poletimber Well	78.4	36	1-50	Few older trees left when harvested and few open areas.
58	6122 - Black Spruce	Poletimber Well	1.9	97	141-170	Boggy, low ground. Beavers have flooded edges over the years. Stand is already on proposal.
59	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	14.1	72	81-110	Wet stand with some vernal ponds within the stand.
61	4193 - Birch, Aspen	Poletimber Well	1.1	106	111-140	Area to the south is prescribed in comp 155. Stand already on proposal.
62	6120 - Lowland Cedar	Poletimber Medium	8.3	122	81-110	Wet with blowdowns. Areas of tag alder & cedar regen.
63	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	37.9	115	81-110	Few upland island in the stand. Some mortality is occurring. Few open areas with more alder. Some deer activity within the stand.
64	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.6	98	81-110	Some deer browse on regen. Select cut last year of entry on Pat Road Popple sale. Some older aspen clones in both parts.
66	42110 - Planted Red Pine	Poletimber Well	27.1	34	141-170	Third row thinned in 2010.
67	4130 - Aspen	Sapling Well	62.8	26	Immature	
68	6118 - Lowland Deciduous with Cedar	Sawtimber Well	20.0	62	81-110	Lots of wet areas.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	6112 - Lowland Aspen	Sawtimber Medium	38.2	65	81-110	Some open areas with tag alder present. The east half of the stand in the adjacent compartment is already under contract. Leave this to cut after the other half regenerates.
70	6124 - Lowland Spruce- Fir	Poletimber Well	8.2	54	81-110	Very wet mixed conifer stand, blocks access to the stands to the north west.
71	6120 - Lowland Cedar	Sawtimber Well	13.6	120	141-170	Thick stand with majority being maple.
72	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	5.8	108	81-110	
73	4130 - Aspen	Sapling Well	22.4	16	Immature	Few wet areas. Good regeneration of 10' - 15' tall.
75	4130 - Aspen	Sapling Well	12.7	16	Immature	10' - 15' tall aspen regeneration. Looks really good.
77	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.0	102	81-110	Stand is on proposal with remainder of stand in adjacent compartment.
81	6118 - Lowland Deciduous with Cedar	Poletimber Medium	2.8	67	81-110	Stand is surrounded by the Sage River - completely inaccessible.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	622 - Lowland Shrub	17.8	No	
3	500 - Water	22.1	No	
7	622 - Lowland Shrub	5.1	No	
15	320 - Upland Shrub	1.1	No	
20	623 - Emergent Wetland	95.7	No	
27	623 - Emergent Wetland	14.7	No	
31	622 - Lowland Shrub	24.1	No	
32	122 - Road/Parking Lot	7.4	No	
33	622 - Lowland Shrub	21.8	No	
45	622 - Lowland Shrub	24.3	No	
48	622 - Lowland Shrub	15.7	No	
50	500 - Water	2.5	No	
52	622 - Lowland Shrub	3.1	No	
54	320 - Upland Shrub	1.8	No	
60	310 - Herbaceous Openland	7.5	No	
65	622 - Lowland Shrub	10.3	No	
74	622 - Lowland Shrub	2.6	No	
76	622 - Lowland Shrub	22.2	No	