



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45117

Entry Year 2019

Acreage: 1,928

County Mackinac

Management Area: Carp River Red Pine

Revision Date: 2017-08-03

Stand Examiner: Matt Edison

Legal Description:

T42N-R6W Sections 3, 4 & 5; Moran Township

Identified Planning Goals:

The overall goals for the management of this compartment are to improve timber quality, wildlife habitat and to increase the biodiversity. There are selection harvests of northern hardwoods scheduled with goal to improve the timber quality and increase species diversity. There are several prescribed red pine thinnings to help maintain health and quality and to promote growth. The clear-cuts with reserves that are prescribed are to increase age class diversity in the mixed aspen/balsam-spruce/birch stands, which will improve habitat for various edge dependent species. The compartment has a number of grassy openings that support a decent blueberry crop. Consideration for treating one of the large openings with consult from wildlife division is prescribed. There is also a final harvest clear cut of a red pine stand to facilitate regeneration processes. Several red pine plantations are prescribed for health/pest monitoring.

Soil and topography:

The land is nearly level on outwash lake plains with inclusions of somewhat poorly drained soils. Wallace sand make up the majority of the soil with traces of Spot-Finch soils, Markey & Carbondale muck, Histosols and Aquents in the lowlands.

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

Compartment 117 is located two and a half mile northwest of the Village of Brevort. The compartment is surrounded by state ownership with some private property a half a mile to the south. The landscape is mostly wooded and is managed for timber production and for various wildlife habitats.

Unique Natural Features:

The compartment contains a couple of fens that support unique aquatic wildlife.

Archeological, Historical, and Cultural Features:

None found

Special Management Designations or Considerations:

The Little Brevort River will need to be buffered from timber sale activities to avoid soil erosion and sedimentation. Part of Carp River ERA plan.

Watershed and Fisheries Considerations:

This compartment contains reaches of Little Brevoort River and headwaters of Silver Creek. The region of the Little Brevoort River which is included in this compartment is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for the Little Brevoort River in riparian areas susceptible to Aspen regeneration. This compartment also contains headwaters to Silver Creek which serves as a tributary to Boedine Bay in Brevoort Lake. Silver Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Silver Creek in riparian areas susceptible to Aspen regeneration. For all other riparian areas, Best Management Practices should be followed to reduce erosion into waterbodies.

Wildlife Habitat Considerations:

This compartment is part of the Carp River Red Pine Management Area, and featured wildlife species include Blackburnian warbler, red-shouldered hawk, ruffed grouse, and snowshoe hare. It contains a mix of types ranging from red pine and forest openings to lowland conifers and other lowland types, but seems to be dominated by upland types on sandy soils where pine is a common component. Hemlock will be retained where present, and other mesic conifers including white pine will be maintained to provide and promote mature mesic conifers in stands where present to benefit Blackburnian warblers. Stream and riparian corridors will be left to provide travel corridors and other habitat components for warblers, snowshoe hare, deer, bear, amphibians and reptiles, and other species. The openings present provide habitat for sandhill crane and other birds favoring grasslands, particularly during migration. Diversity will be maintained in the compartment.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located less than two miles to the southwest. Potential within the compartment is unknown. The glacial drift may be too thin in this area to produce significant quantities of sand and gravel. There may be limestone/dolostone potential, but geologic information for the area is lacking. There is no current economic oil and gas production in the UP and there is no known metallic mineral potential in this region. Much of the mineral rights beneath the compartment are privately owned.

Vehicle Access:

The compartment has good vehicle access through out most of the compartment. The Carp River Truck Trail, a good dirt road, provides the access along the east and the Cut River Road/Brevoort River Road provides access on the west side of the compartment. The Jackson Tr., a poor quality road, is the main access to the northern part of the compartment and the Goodreau Tr. Provides access to the southern part of the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

: The area is used frequently by ORV recreationalist with the Carp River Truck trail being a snowmobile in the winter and the Goodreau Trail leading to the Brevort ORV trailhead. The area is also used by hunters and fishermen with the Brevort and Carp Rivers in the area.

Fire Protection:

The compartment contains many fuel types and high levels of recreational use. There are nearby water sources with the Little Brevort River, Carp River, and the fens. Hendricks Township Fire Hall is 5 miles from the compartment and there is decent vehicle access. See Carp River ERA plan for fire response recommendations.

Additional Compartment Information:

Carp River ERA plan to be reviewed.

The following reports from the Inventory are attached:

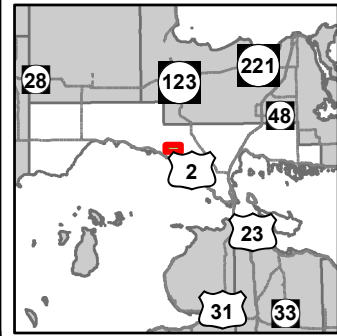
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

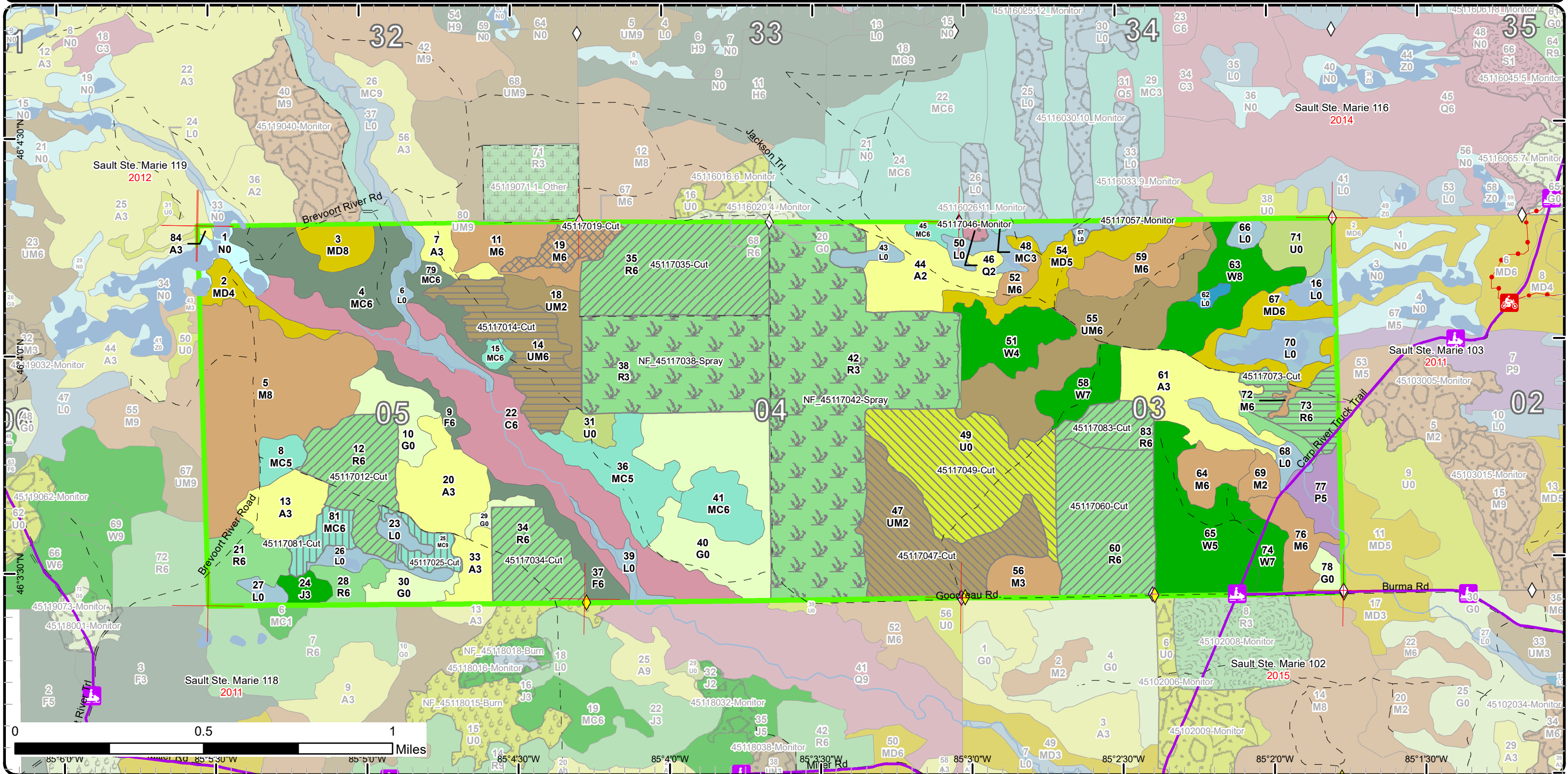
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 117
 T42N, R06W, Sec: 3-5
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Carp River Red Pine
 YOE: 2019
 Acres: 1927.8 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 8/11/2017
 Map Phase: Review

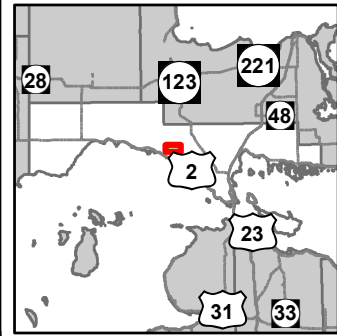


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|-----------------------------------|-------------------------------------|------------------------------------|
| — Miris Corners | — Compartment Boundary | — 430 - Upland Mixed Forest |
| — Remonumented Section Corners | — Selection (Group, Single Tree) | — 611 - Lowland Deciduous Forest |
| — Survey Grade GPS Corners | — Clearcut (w/Reserves) | — 612 - Lowland Coniferous Forest |
| — Field Grade GPS Corners | — Pesticide | — 310 - Herbaceous Openland |
| — Counties | — Regeneration Survey | — 320 - Upland Shrub |
| — Motorcycle Trails (DNR License) | — Other Harvest - See Comments | — 330 - Low Density Trees |
| — Snowmobile Trails | — Thinning (Crown, Low, Systematic) | — 622 - Lowland Shrub |
| — ORV License & Trail Permit | — Shelter Wood (w/Reserves) | — 623 - Emergent Wetland |
| — Designated Snowmobile Trails | — 411 - Northern Hardwood | — 629 - Mixed non-forested wetland |
| — Gravel Roads | — 413 - Aspen Types | — Lakes |
| — Poor Dirt Roads | — 419 - Mixed Upland Deciduous | |
| — Streams | — 421 - Planted Pines | |
| — Lakes and Rivers All | — 422 - Natural Pines | |
| | — 423 - Other Upland Conifers | |
| | — 429 - Mixed Upland Conifers | |

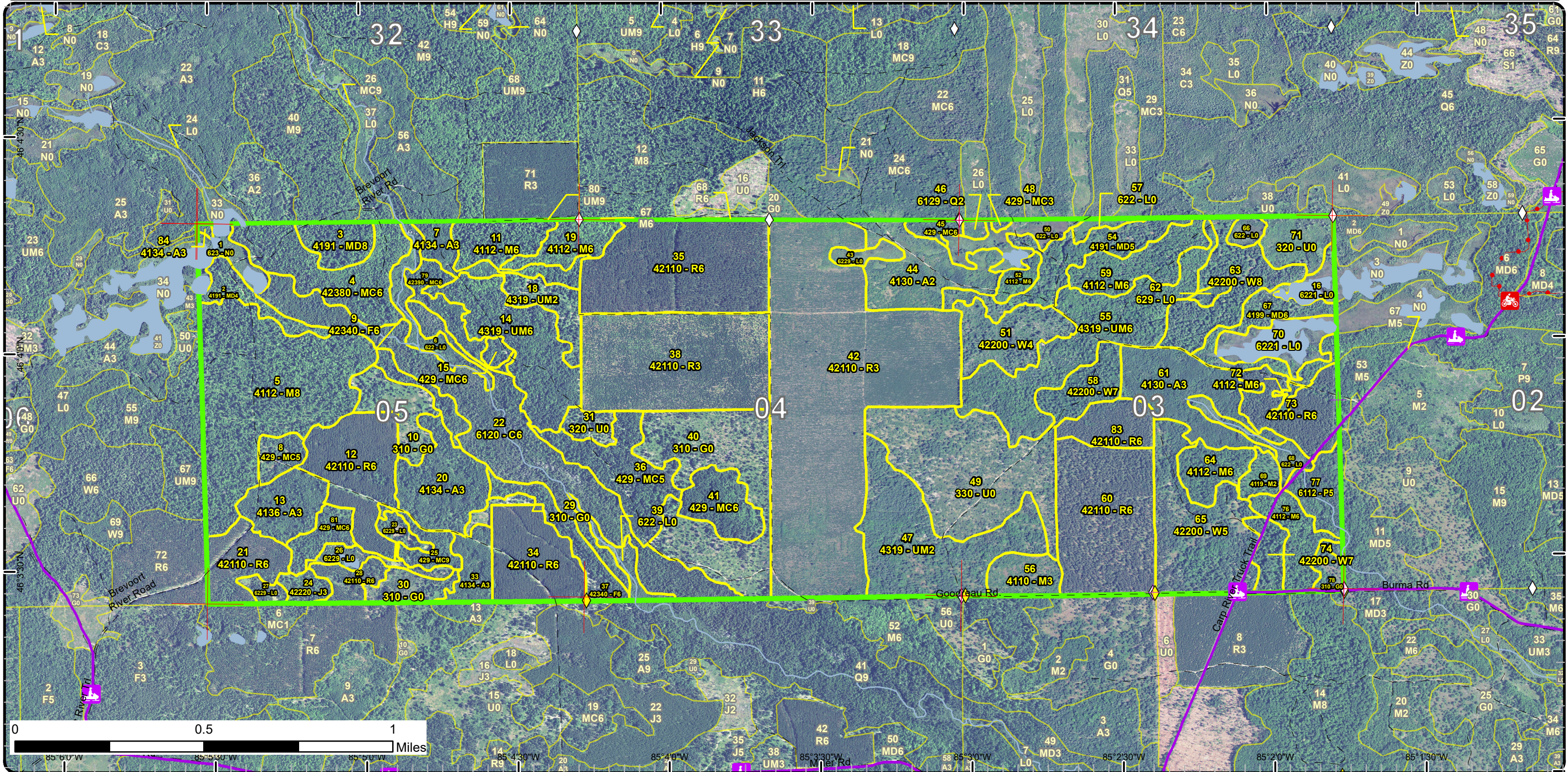


Stand Boundary Map

Compartment: 117
 T42N, R06W, Sec: 3-5
 County: Mackinac
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 Map Phase: Review

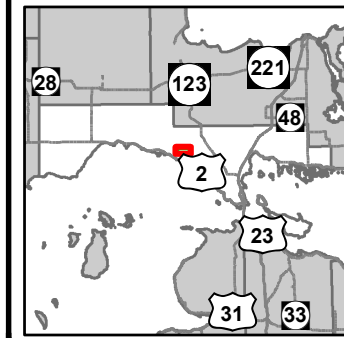


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- 🏍️ Motorcycle Trails (DNR License)
- 🏍️ Snowmobile Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Gravel Roads
- Poor Dirt Roads
- Streams
- ▭ Lakes and Rivers All
- Compartment Boundary
- Stand Boundaries
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees

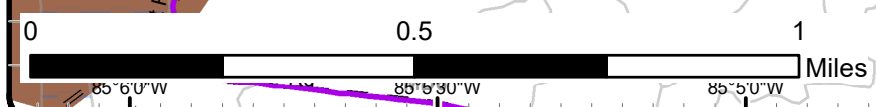
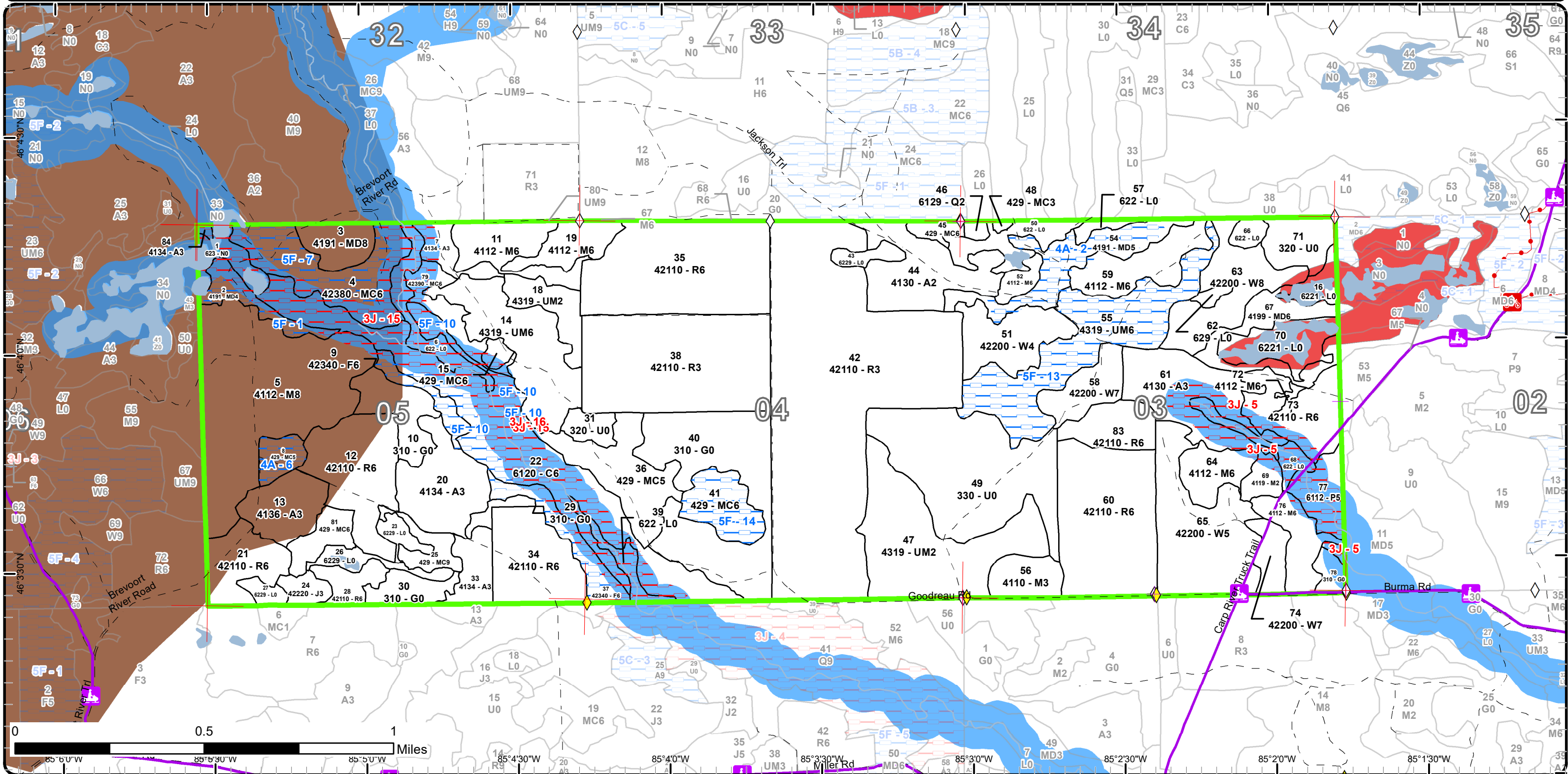


Special Conservation Areas & Site Conditions Map

Compartment: 117
 T42N, R06W, Sec: 3-5
 County: Mackinac
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- Miris Corners
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- 🏍️ Motorcycle Trails (DNR License)
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- ORV License & Trail Permit
- Designated Snowmobile Trails
- Gravel Roads
- - - Poor Dirt Roads
- Streams
- ▬ Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



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	35	52	61	0	0	0	0	0	0	0	0	0	0	0	0	0	148
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	98	0	0	0	0	0	98
Herbaceous Openland	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
Jack Pine	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Low-Density Trees	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Shrub	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	11	0	0	0	0	0	0	20	0	0	0	0	0	0	0	41	72
Northern Hardwood	0	7	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197	217
Red Pine	0	0	282	0	0	0	260	0	27	0	0	0	0	0	0	0	0	0	569
Upland Conifers	0	0	0	3	41	32	27	0	15	22	0	0	0	0	0	0	0	0	139
Upland Mixed Forest	0	0	0	65	14	0	0	0	107	0	0	0	0	0	0	0	0	0	185
Upland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Spruce/Fir	0	0	0	0	0	16	8	0	0	0	0	0	0	0	0	0	0	0	24
White Pine	0	0	0	0	0	0	53	0	0	26	0	0	0	0	0	0	0	58	137
Total	316	9	347	120	116	48	364	0	149	68	0	0	0	98	0	0	0	296	1929



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 117
Total Compartment Acres: 1,928

Commercial Harvest - 470
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
Low-Density Trees	0	0	0	0	0	0	0	0	77	77
Northern Hardwood	0	14	0	0	0	0	0	0	0	14
Red Pine	22	0	0	0	0	229	0	0	0	251
Upland Conifers	0	0	0	0	19	0	0	0	0	19
Upland Mixed Forest	44	0	0	0	0	0	0	0	65	108
Total	66	14	0	0	19	229	0	0	142	470

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	470	0	0	0	0	281	5	0	0	756
Next Step	0	22	22	0	22	325	446	0	0	837
Total	470	22	22	0	22	606	451	0	0	1593



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
12	45117012-Cut	40.1	42110 - Planted Red Pine	Poletimber Well	54	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**Prescription Second thin of Red Pine plantation.Specs:Next Step
Treatments:Acceptable
Regen:Other
Comment:Proposed Start Date: 10/01/2018

14	45117014-Cut	43.9	4319 - Mixed Upland Forest	Poletimber Well	75	141-170	Harvest	Clearcut with Retention	4220 - Natural White Pine	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Following previously approved treatment plan that was not cut. Harvest/ re-cruise Balsam fir, Spruce, Red Maple, Aspen, and Paper Birch. AlsoSpecs: harvest any White Pine that have already been marked in orange. Provide for representation of existing species in retention.Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:Acceptable Any mix of White Pine, aspen, balsam fir, birch, spruce, maple, hemlock, or cherry.
Regen:Other
Comment:Proposed Start Date: 10/01/2018

19	45117019-Cut	14.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Thin hardwood stand to regulation basal area. Stand is marked in orange already from previous unsold sale.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:Acceptable Any mix of maple, aspen, birch, balsam fir, spruce, hemlock, cherry, or pine.
Regen:Other
Comment:Proposed Start Date: 10/01/2018

25	45117025-Cut	8.9	429 - Mixed Upland Conifers	Sawtimber Well	88	141-170	Harvest	Shelterwood with Retention	4220 - Natural White Pine	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Following previously approved treatment plan that was not cut. Harvest/ re-cruise Balsam fir, Spruce, Red Maple, Aspen, and Paper Birch. AlsoSpecs: harvest White Pine that have already been marked.Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:Acceptable Any mix of White Pine, aspen, balsam fir, birch, spruce, maple, hemlock, or cherry.
Regen:Other
Comment:Proposed Start Date: 10/01/2018



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
34	45117034-Cut	33.7	42110 - Planted Red Pine	Poletimber Well	54	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Second thin of Red Pine plantation.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
35	45117035-Cut	73.5	42110 - Planted Red Pine	Poletimber Well	57	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Thin Red Pine to release crowns.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
46	45117046-Monitor	1.9	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	8		Monitoring	Natural Regen (Intermediate)	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Regeneration Survey as per the work instructions.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, and white pine.											
<u>Regen:</u>											
<u>Other</u> Monitor with stands from adjacent compartment. Part of Dead End Strips cut (2010).											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
47	45117047-Cut	64.5	4319 - Mixed Upland Forest	Sapling Medium	25	1-50	Harvest	Other - Specify	310 - Herbaceous Openland		Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Clearcut to set back opening from closing in completely. Discuss with WLD											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



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
49	45117049-Cut	77.0	330 - Low-Density Trees	Nonstocked		Unspecified	Harvest	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut for opening maintenance. Consult with wildlife for any follow up treatments.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

57	45117057-Monitor	3.1	622 - Lowland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Regeneration survey as per work instructions.

Specs:

Next Step

Treatments:

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

Regen:

Other

Monitor with larger part of stand in adjacent compartment from harvest in 2010.

Comment:

Proposed Start Date: 10/01/2018

60	45117060-Cut	65.6	42110 - Planted Red Pine	Poletimber Well	54	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Second thin red pine to approximately 120 basal area.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

73	45117073-Cut	22.0	42110 - Planted Red Pine	Poletimber Well	78	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final Harvest mature Red Pine, follow with appropriate site prep. and planting for regeneration of RP. Retention will be part of stand left outside of treatment to buffer area along water to south. Do not leave retention within inner parts of stand for future helicopter spraying considerations.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Pesticide, Aerial;

Treatments: Monitoring, Artificial Regen(3yr); Monitoring, Herbicide Use; Pesticide, Aerial

Acceptable RP

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



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
81	45117081-Cut	10.5	429 - Mixed Upland Conifers	Poletimber Well	74	81-110	Harvest	Shelterwood with Retention	4220 - Natural White Pine	Uneven-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Following previously approved treatment plan that was not cut. Harvest/ re-cruise Balsam fir, Spruce, Red Maple, Aspen, and Paper Birch. Also
Specs: harvest White Pine that have already been marked.

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

Acceptable Regen: Any mix of White Pine, aspen, balsam fir, birch, spruce, maple, hemlock, or cherry.

Other Comment:

Proposed Start Date: 10/01/2018

83	45117083-Cut	16.5	42110 - Planted Red Pine	Poletimber Well	54	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin pine to approximately 120 basal area. Remove Jack Pine and additional red pine to meet basal area goals.
Specs:

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

38	NF_45117038-Spray	81.8	42110 - Planted Red Pine	Sapling Well	13	Immature	Pesticide	Aerial	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription areial application
Specs:

Next Step Monitoring, Herbicide Use; Pesticide, Aerial
Treatments:

Acceptable Regen: RP

Other Comment: FTP # 44-514. Stand currently doesn't need release but might need it in the next 10yrs. Monitor site. Also, monitor for sawfly. Old next step comments: monitor

Proposed Start Date: 12/12/2016

42	NF_45117042-Spray	199.0	42110 - Planted Red Pine	Sapling Well	11	Immature	Pesticide	Aerial	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Aerial application
Specs:

Next Step Monitoring, Herbicide Use; Pesticide, Aerial
Treatments:

Acceptable Regen: RP

Other Comment: FTP # 44-509. Spray for release if TMS recommends it also monitor for sawfly. Old next step comments: monitor affectiveness of application.

Proposed Start Date: 12/12/2016

Total Treatment Acreage Proposed: 756.1

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 117

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		4A	5C	5F	3J
148	94	35	19	Aspen			35	19
98	15	12	71	Cedar			12	71
105	105	0	0	Herbaceous Openland				
6	6	0	0	Jack Pine				
77	77	0	0	Low-Density Trees				
15	3	0	13	Lowland Aspen/Balsam Poplar				13
2	2	0	0	Lowland Conifers				
100	72	0	28	Lowland Shrub				28
11	0	0	11	Marsh				11
73	19	49	5	Mixed Upland Deciduous	23	20	6	5
217	211	1	5	Northern Hardwood	1	0		5
569	565	0	5	Red Pine		0	0	5
139	67	48	24	Upland Conifers	8		40	24
185	122	63	0	Upland Mixed Forest			63	0
22	22	0	0	Upland Shrub				
24	0	17	7	Upland Spruce/Fir			17	7
136	136	0	0	White Pine	0			
1,927	1,515	225	187	Total Forested Acres	32	20	173	187
	79%	12%	10%	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	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	4A: No Markets Available for these Forest Products	24	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 117

Year of Entry: 2019

5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	4A: No Markets Available for these Forest Products	8	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Wildlife opening filling in.							
7	Available	5F: Evaluated for Forest Health Considerations	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5F: Evaluated for Forest Health Considerations	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5F: Evaluated for Forest Health Considerations	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5F: Evaluated for Forest Health Considerations	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Monitor for SBW							

15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	143	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	5F: Evaluated for Forest Health Considerations	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.

Conservation Area	Type	Description
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.

Report 7 – Forested Stands

Compartment: 117
Year of Entry: 2019



Stand	Sault Ste. Marie Mgt. Unit		Report 7 – Forested Stands			Compartment: 117 Year of Entry: 2019
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	11.4	16	Immature	Stand is unit in 'Missle tube Shelterwood'.
3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	13.0	70	51-80	Cut in 99 as 'Missle Tube Shelterwood. Some clumps of hemlock and cedar.
4	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	40.1	35	141-170	Pole sized mixed stand. Heavy to cedar in some places. Retain this entry and revisit in 10 years. Balsam is still relatively small and no sign of SBW.
5	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	100.1	81	51-80	Beech was salvaged in 2014. Variable basal area. Mostly red maple with scattered conifer/white pine.
7	4134 - Aspen, Spruce/Fir	Sapling Well	9.0	32	Immature	
8	429 - Mixed Upland Conifers	Poletimber Medium	8.0	52	1-50	Old opening almost filled in completely, lots of age classes. Decent b.berry crop. East side is better stocked with white pine.
9	42340 - Upland Spruce/Fir	Poletimber Well	8.0	55	Unspecified	
11	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.1	92	1-50	Was a unit is Missle Tube Shelterwood a 99 sale.
12	42110 - Planted Red Pine	Poletimber Well	40.1	54	171-200	Was cut in 99 as a unit of 'Good Row Pine'. Good looking pine, ready for second thin.
13	4136 - Aspen, Mixed Conifer	Sapling Well	20.3	35	141-170	Thick upland mix, pole/sapling.
14	4319 - Mixed Upland Forest	Poletimber Well	43.9	75	141-170	Stand was prescribed last entry as 45-103-09-01. Brevoort River Mix. Carry on treatment that was previously prescribed. Nice pole stand of upland spruce, aspen, red maple mix.
15	429 - Mixed Upland Conifers	Poletimber Well	2.9	29	51-80	Pocket of small mixed conifer.
18	4319 - Mixed Upland Forest	Sapling Medium	14.2	33	1-50	Lots of B. Berries would be nice to burn and maintain as an opening. Some pockets of mature timber.
19	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.1	85	81-110	Stand was prescribed and set up last entry, but never cut as part of Brevort River Mix sale #45-103-09-01. Re-prescribe this entry.
20	4134 - Aspen, Spruce/Fir	Sapling Well	31.3	35		
21	42110 - Planted Red Pine	Poletimber Well	21.6	54	111-140	Stand was thinned in 2001. #45-116-01-01 "Twisted Blister". Looks good, still released and relatively small diameters. Do not treat at this time, but consider adding treatment if adjacent stands in other compartments are prescribed in future.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	6120 - Lowland Cedar	Poletimber Well	97.7	124	Unspecified	Fir and spruce on edges of stand turns to cedar and tag alder. Leave for river buffer.
24	42220 - Natural Jack Pine	Sapling Well	5.9	16	Immature	Stand was cut in 2001. #45-116-01-01 "Twisted Blister". Jack Pine regeneration mixed with some Birch, Cherry, and a few Aspen.
25	429 - Mixed Upland Conifers	Sawtimber Well	8.9	88	141-170	White pine stand with some mix of spruce and birch. Thin down to manage for white pine. Straight, good quality wp.
28	42110 - Planted Red Pine	Poletimber Well	9.1	54	141-170	Stand was thinned in 2001. #45-116-01-01 "Twisted Blister". Looks good, still released and relatively small diameters. Do not treat at this time, but consider adding treatment if adjacent stands in other compartments are prescribed in future.
33	4134 - Aspen, Spruce/Fir	Sapling Well	12.2	22		
34	42110 - Planted Red Pine	Poletimber Well	33.7	54	141-170	Thinned in 99 "Good Row Pine". Good looking red pine, ready for a second thinning.
35	42110 - Planted Red Pine	Poletimber Well	73.6	57	111-140	Was thinned in 99 'Mike's Hike'. Stocking is more variable on the west 40. Thinned in '09 "Nick of time pine"
36	429 - Mixed Upland Conifers	Poletimber Medium	31.8	47	1-50	Nice pole stand of mixed upland conifer. Still relatively small diameters. No sign of SBW. Hold for future as harvesting large adjacent stand this entry.
37	42340 - Upland Spruce/Fir	Poletimber Well	16.0	41	111-140	Mixed stand of conifer fringing the river flood plain. Fairly high bluff in places.
38	42110 - Planted Red Pine	Sapling Well	82.0	13	Immature	Stand was cut in 2004 #44-024-99-01 "Mikes Hike". Planted tor RP in 2004.
41	429 - Mixed Upland Conifers	Poletimber Well	18.8	50	81-110	Spruce/fir on the edges. Heavy to aspen on the east end and turn to a filled in opening on the west with spruce/fir/pine. Very randomly variable mixed stand. Healthy and doing well, hold this entry for age class. Consider harvesting with adjacent stand 36 in future.
42	42110 - Planted Red Pine	Sapling Well	200.3	11	Immature	Stand was cut in 2006. #44-023-99-01 "Stand-Off Red Pine". Planted to RP in 2006
44	4130 - Aspen	Sapling Medium	35.2	17	Unspecified	Cut in 2000 'Old Oil Pan' 45-029-99-01.
45	429 - Mixed Upland Conifers	Poletimber Well	4.3	78	51-80	This stand was clearcut 22 years ago and the white pine was left. The stand is now a white pine stand with a fair amount of white pine regeneration.
46	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	1.9	8		Cut in 2009



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4319 - Mixed Upland Forest	Sapling Medium	64.5	25	1-50	Lots of B. berries. Old opening that is filling in, lots of age classes. West end of stand is older and larger.
48	429 - Mixed Upland Conifers	Sapling Well	0.8	33	Immature	Small point that is part of larger stand in adjacent compartment.
51	42200 - Natural White Pine	Poletimber Poor	25.7	81	51-80	Stand was cut in 2012 #45-102-09-01 Snowed in Mix.
52	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.5	55	81-110	Stand of small poles, with a lot of brush. Basal area isn't that high. Let the trees put on some size and check the basal area again next entry.
54	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	28.3	53	1-50	
55	4319 - Mixed Upland Forest	Poletimber Well	62.7	74	51-80	Poor quality pole stand. Northern parts of the stand has been thinned. Has a decent component of W.P. Overall basal area is not that high. Leave for age class this entry and continue to look at in the future for managing the White Pine.
56	4110 - Sugar Maple Association	Sapling Well	13.0	17	Immature	Cut in 2000 with 'Old Oil Pan'
58	42200 - Natural White Pine	Sawtimber Poor	16.4	90	81-110	Stand of White pine with understory of mixed everything coming up underneath. Leave this stand go as a natural white pine stand until understory is big enough to harvest.
59	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.8	92	51-80	Stand was thinned in 2013. #45-102-09-01 Snowed In Mix.
60	42110 - Planted Red Pine	Poletimber Well	65.6	54	81-110	Stand was cut in 2008 with Jack Pine removed. 'Bad Row Pine' 45-105-04-01. Thin red pine again this entry.
61	4130 - Aspen	Sapling Well	39.3	25		aspen about 20' tall.
63	42200 - Natural White Pine	Sawtimber Medium	31.7	97	51-80	Stand was cut in 2001. 45-120-01-01. "Licensed Blind White Pine". All but White Pine and Hemlock Cut.
64	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.2	92	51-80	Thinned 2010
65	42200 - Natural White Pine	Poletimber Medium	53.3	56	1-50	Most of stand is an opening that has filled in. Southern part of stand was a Seed tree unit of 'Licensed Blind White Pine'
67	4199 - Other Mixed Upland Deciduous	Poletimber Well	20.2	81	81-110	Leave for buffer around the Fen. Smaller diameters in most places. Good buffer for fen.
69	4119 - Mixed Northern Hardwoods	Sapling Medium	6.7	6	Immature	Stand was an R9 harvested in 2011 45-101-09-01. Owen Sixteen. It was prescribed to regenerate naturally and has filled in nicely with hardwood/aspen mix. Residual Red Pine left as leave trees remain and look good.

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Sault Ste. Marie Mgt. Unit

Report 7 – Forested Stands

Compartment: 117
Year of Entry: 2019

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
72	4112 - Maple, Beech, Cherry Association	Poletimber Well	1.7	75	51-80	
73	42110 - Planted Red Pine	Poletimber Well	26.7	78	141-170	Final Harvest this stand this entry. Heavy brush underneath overall.
74	42200 - Natural White Pine	Sawtimber Poor	9.6	95	1-50	Cut in 99 'Licensed Blind White Pine'
76	4112 - Maple, Beech, Cherry Association	Poletimber Well	16.8	83	51-80	Thinned 2010. #45-101-09-01. Owen Sixteen. Good looking Hardwood mixed with some white pine and other. Regeneration is shooting up and looks good. There is maple and White pine regeneration as well as aspen in places.
77	6112 - Lowland Aspen	Poletimber Medium	15.5	59	Unspecified	Intermittent drainages through out stand. Pockets of high ground with Red ,white pine, and aspen.
79	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	12.7	86	81-110	Smaller pole sized stand of mixed conifer on transitional ground much lower than surrounding. Some areas of tag alder near edge.
81	429 - Mixed Upland Conifers	Poletimber Well	10.5	74	81-110	Originally part of stand 17 which was cut as part of Brevort River Mix sale #45-103-09-01. This portion was not cut. Prescribe as previous entry.
83	42110 - Planted Red Pine	Poletimber Well	16.5	54	141-170	
84	4134 - Aspen, Spruce/Fir	Sapling Well	0.8	33	Immature	This stand was cut at the same time as adjacent stand in comp. 119. The spruce and balsam are much heavier within this stand. The regen as a whole is doing good.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	623 - Emergent Wetland	10.6	No	
6	622 - Lowland Shrub	13.3	No	
10	310 - Herbaceous Openland	18.0	No	
16	6221 - Fen	7.0	No	
23	6229 - Mixed lowland shrub	5.0	No	
26	6229 - Mixed lowland shrub	7.5	No	
27	6229 - Mixed lowland shrub	3.8	No	
29	310 - Herbaceous Openland	3.7	No	
30	310 - Herbaceous Openland	10.2	No	
31	320 - Upland Shrub	6.8	No	
39	622 - Lowland Shrub	6.9	No	
40	310 - Herbaceous Openland	67.8	Yes	
43	6229 - Mixed lowland shrub	4.9	No	
49	330 - Low-Density Trees	77.0	Yes	
50	622 - Lowland Shrub	14.6		
57	622 - Lowland Shrub	3.1		Cut as part of Dead End Strips (2010).
62	629 - Mixed non-forested wetland	2.4	No	unit of 99 sale 'licensed blind white pine'
66	622 - Lowland Shrub	4.1	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
68	622 - Lowland Shrub	8.4	No	
70	6221 - Fen	19.4	No	
71	320 - Upland Shrub	15.2	No	
78	310 - Herbaceous Openland	4.9	Yes	