



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45180

Entry Year 2022

Acreage: 1,767

County Mackinac

Management Area: County Line Hardwoods

Revision Date: 2020-07-29

Stand Examiner: Jennifer Burnham

Legal Description:

T44N R10W SECTIONS 5, 6, 7 & 18 (Garfield Township)

Identified Planning Goals:

This area is located west of M-117 along the Luce county border. Good hardwood – aspen compartment. Many of the stands within the compartment have seen some management activity within the last 10 to 20 years. The hardwoods and pine need regular treatment to maintain health and growth. A few high-quality red pine stands were thinned at least twice. Wildlife Division, in the early 1980's, constructed many openings with a root rake. Many of these openings are starting to fill in with birch, cherry and blackberries. These openings should be maintained if feasible.

Soil and topography:

The area is mostly level uplands, occasionally rolling. The majority of the compartment consists of Adams sandy loam, Wallace sand and Wallace-Alcona complex. Minor associates are Springlake loamy coarse sand and Paquin sand.

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

The compartment has three blocks of private in-holdings within its' boundaries. Luce County borders the north with state and private lands. To the west is mainly state lands with some private in-holdings. The south is private land along the Sandtown Road and state land bordering the compartment in section 8. East of M-117 is a tier of private lands before it becomes state land again.

Unique Natural Features:

McAlpine Creek and Skunk Creek run through the compartment.

Archeological, Historical, and Cultural Features:

Maple sap collection area.

Special Management Designations or Considerations:

The ORV trail winds through many stands to be treated. ORV trails must be signed and kept clean while logging operations are ongoing. Winter access may be restricted due to the presence of the snowmobile trail. Buffers must be maintained when logging along McAlpine Creek and Skunk Creek.

Watershed and Fisheries Considerations:

This compartment contains the upper reaches of McAlpine Creek. McAlpine Creek is a high-quality, groundwater fed stream. Previous fisheries surveys have captured brook trout, brook stickleback, central mudminnow, creek chub, fathead minnow, Iowa darter, Northern redbelly dace, and mottled sculpins. Implementation of BMP's will aid in preventing sediment input from upland areas are critically important to protect spawning areas for trout and other stream-resident fishes. Buffering the river is also critical to ensure future inputs of woody material to the stream channel, discourage aspen regeneration close to the stream channel, and provide shading to protect water temperature from warming to a degree that will inhibit trout survival.

Wildlife Habitat Considerations:

This compartment is part of the County Line Hardwoods MA where featured wildlife species include black bear, northern goshawk, red-shouldered hawk, ruffed grouse, snowshoe hare, and white-tailed deer. Northern hardwoods are dominant. Aspen is also well-represented. Most remaining cover includes red pine plantations and mixed stands. McAlpine Creek flows across the north part of the compartment while Skunk Creek flows across the southern end. Hardwood stands have been managed to encourage diversity in past years.

Wildlife objectives include encouraging diversity (age class, structural, and species) in northern hardwoods, maintaining wetland habitats and riparian corridors, and providing early successional habitat. Streams and any vernal or permanent wetlands should be buffered to maintain habitat for amphibians, birds, and travel corridors for other species. Hemlock will be left where present. Mast-bearing species will generally be left to provide food sources for deer, bear, and other wildlife.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and clay and silt. There is insufficient data to determine the Glacial Drift thickness. The Silurian Burnt Bluff Group and Cabothead Shale subcrop below the Glacial Drift. The Burnt Bluff is quarried for stone/limestone thirteen miles to the east (Hendricks quarry). The nearest gravel pit is located in Section 18. There appears to be gravel potential in the compartment. There is no economic oil and gas production in the UP.

An old sandpit is located along M-117 (stand 406). A new sandpit, located to the south of stand 7, will be used for a county road project nearby.

Vehicle Access:

Access to and through this compartment is very good. M-117, a class A road, borders the east. Two county roads border the north and west. Luce County maintains County Road 468 along the north, while Mackinac County maintains the Hayes Road. Several trail roads provide access to most every stand needed.

Survey Needs:

Corners are pretty well represented around the private in-holdings in the compartment.
No trespasses observed.

Recreational Facilities and Opportunities:

An ORV trailhead parking lot is located along Hayes Road, approximately ½ mile north of Sandtown Road. The ORV trail winds throughout many stands within the compartment. Good deer, rabbit, grouse and duck hunting, fishing, and wildlife viewing opportunities.

Fire Protection:

Low fire area.

Additional Compartment Information:

The following reports from the Inventory are attached:

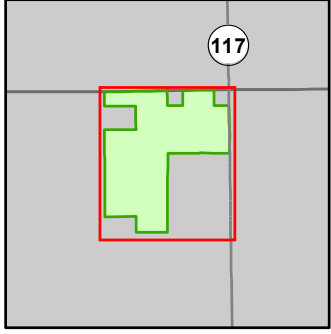
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

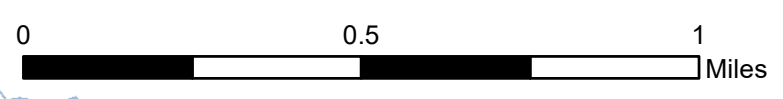
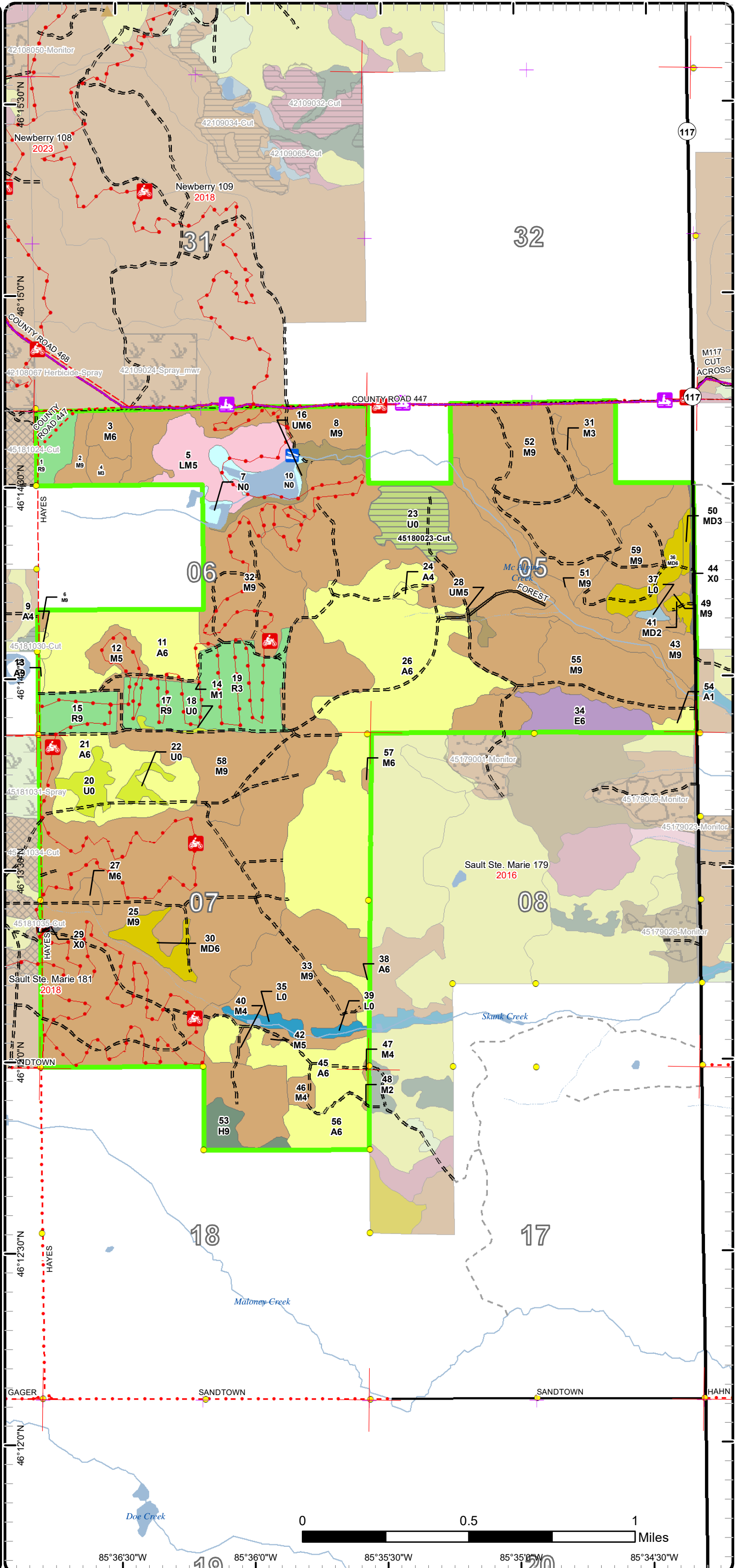
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 180
 T44N, R10W, Sec. 5-7, 18
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: County Line
 Hardwoods
 YOY: 2022
 Acres: 1,767 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 8/10/2020
 Map Phase: Web Post



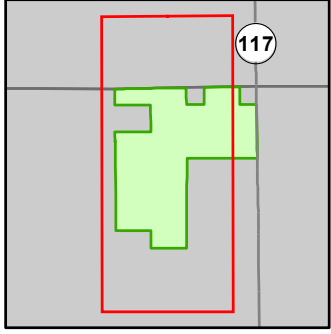
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🏍️ Motorcycle Trails (DNR License)
- 🏂 Snowmobile Trails
- ORV License & Trail Permit
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🚤 Boating Access Site
- P Parking Lot
- Compartment Boundary
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland



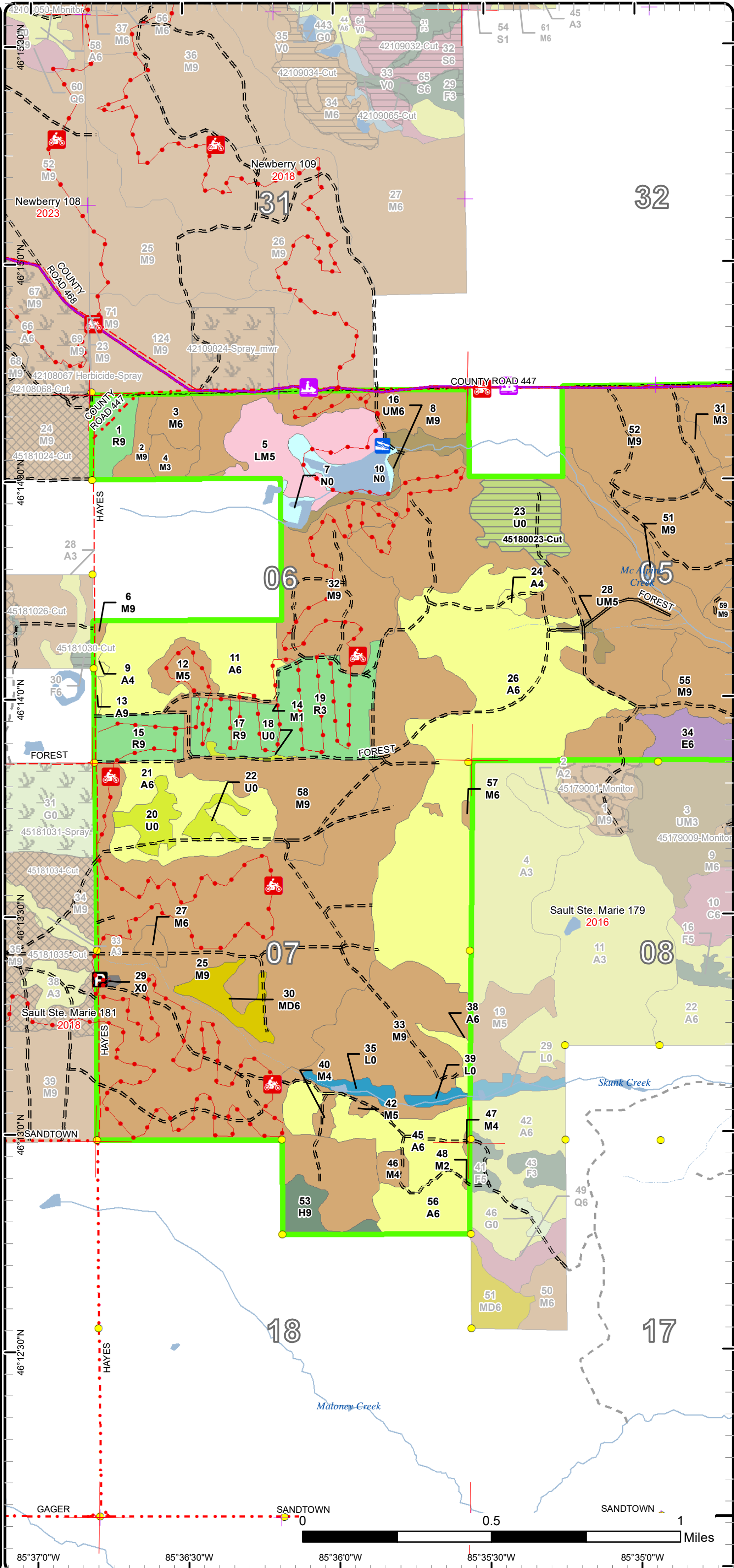
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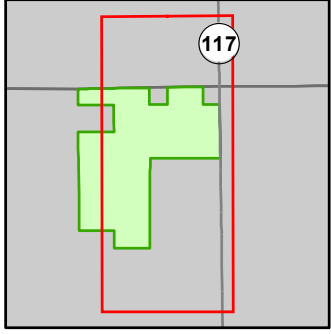


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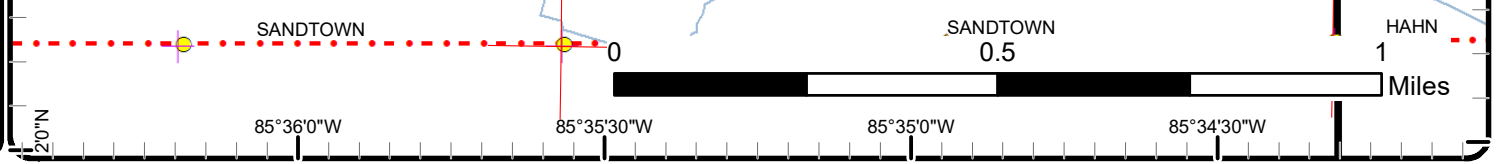
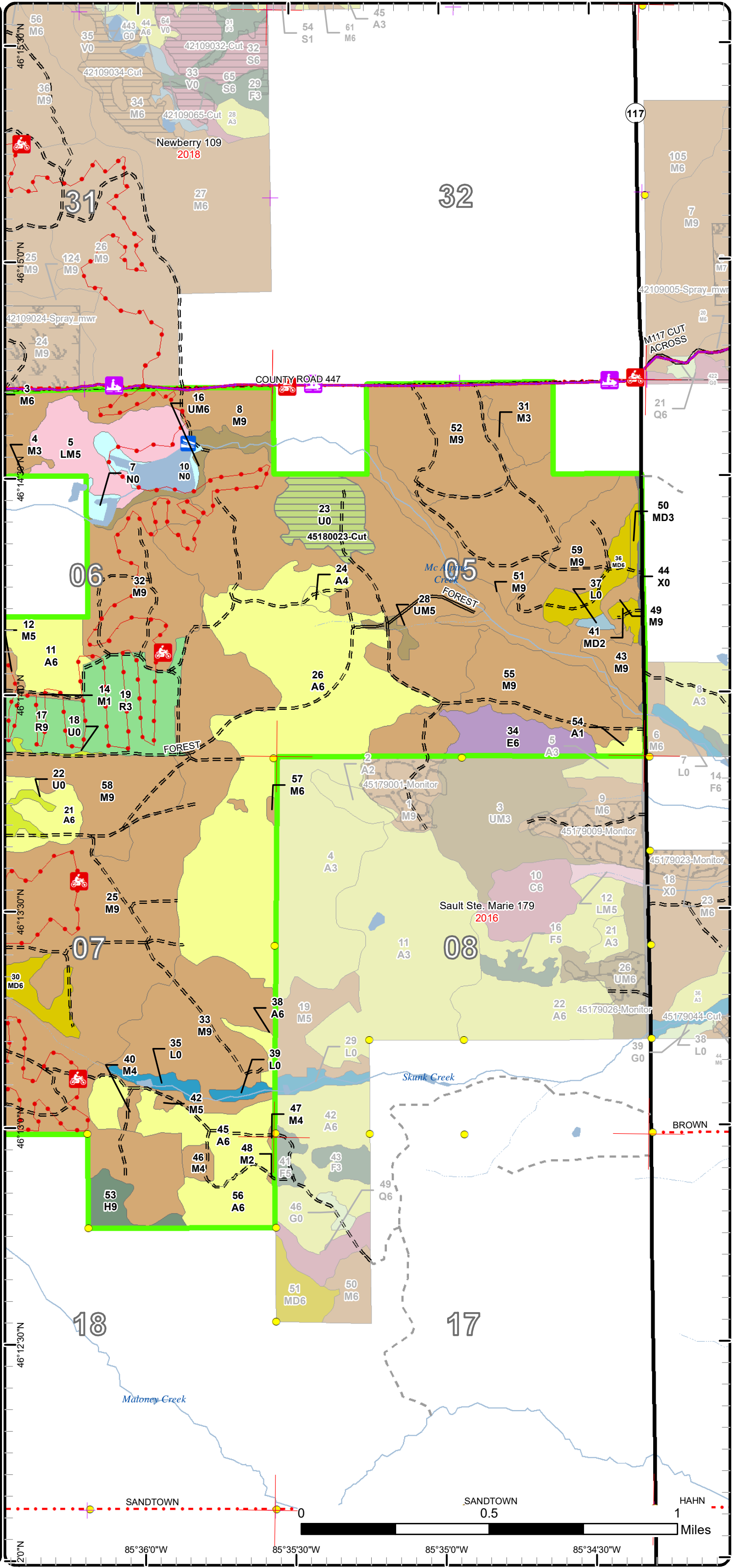


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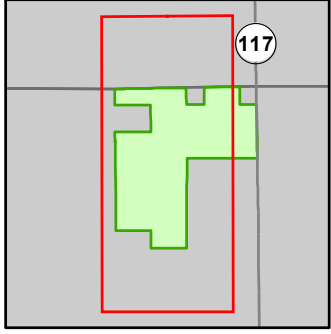


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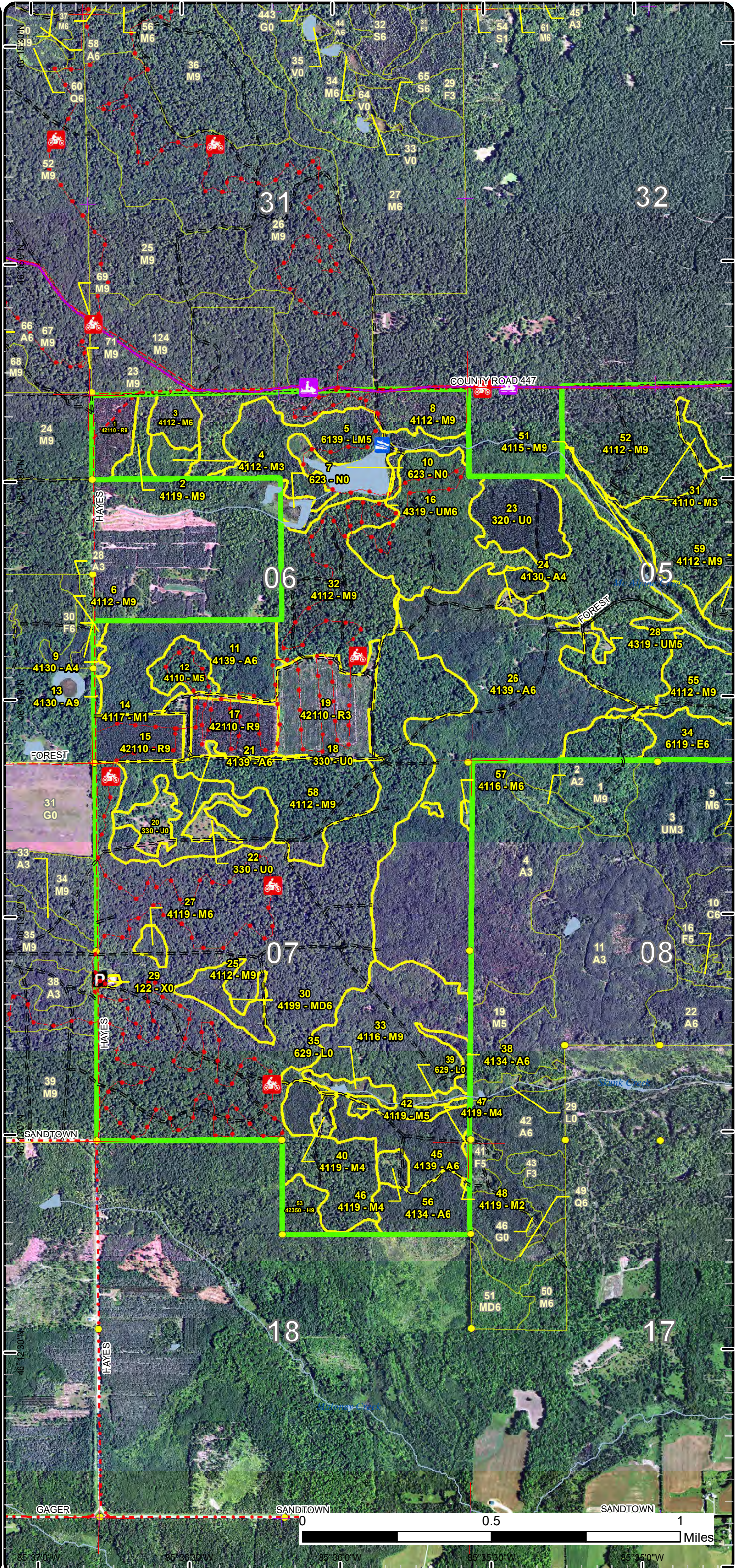


Stand Boundary Map

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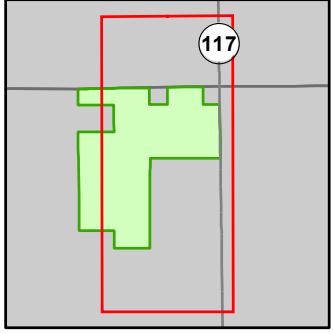
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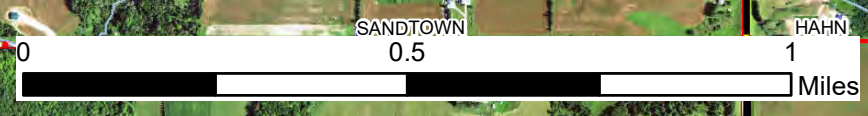
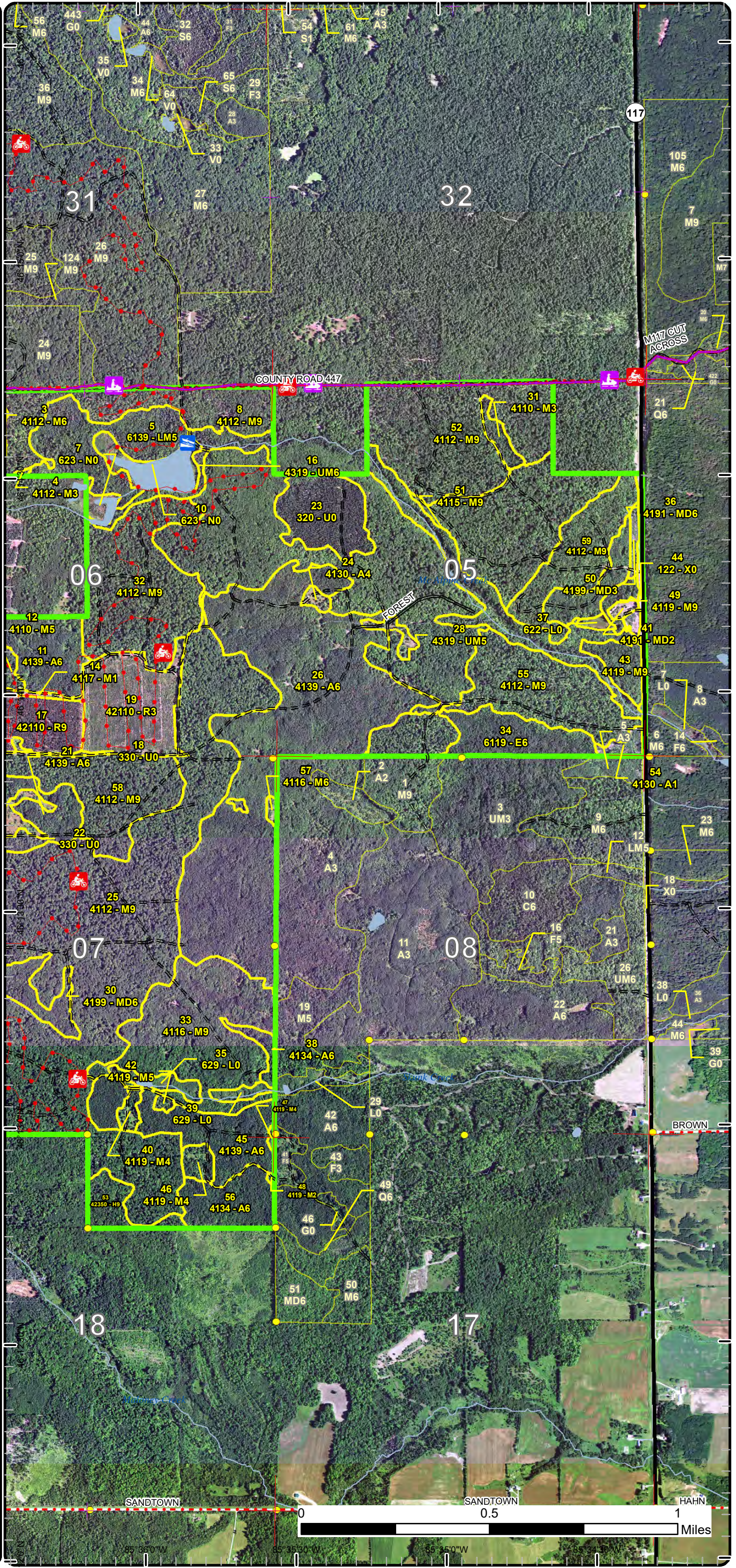
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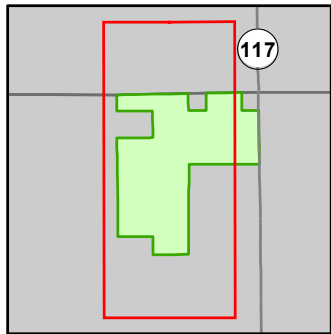
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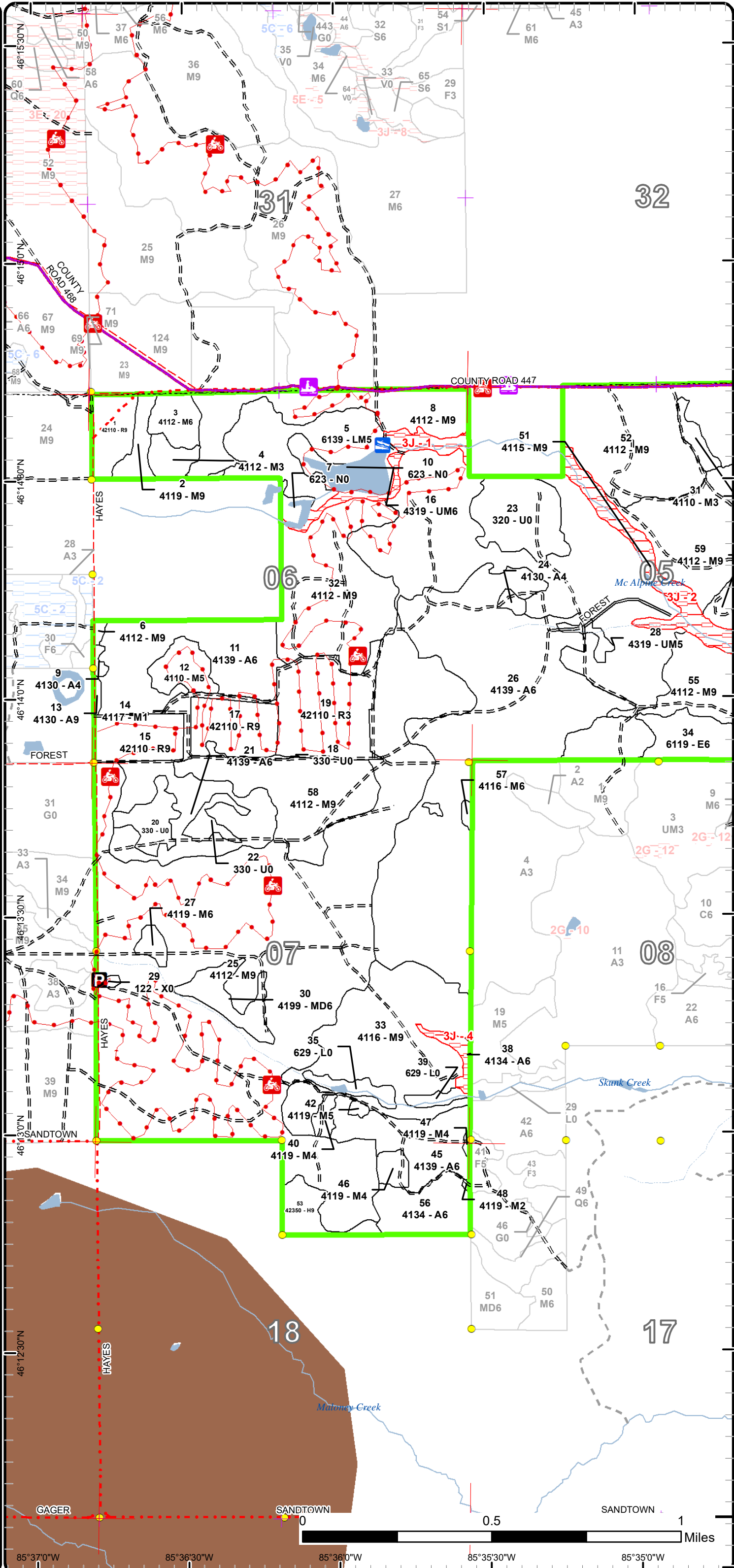
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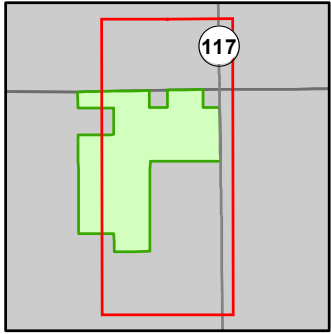


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- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range

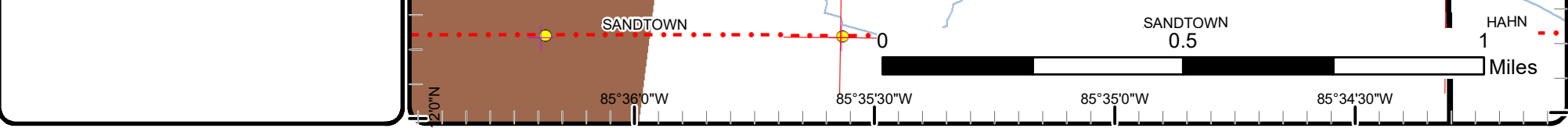
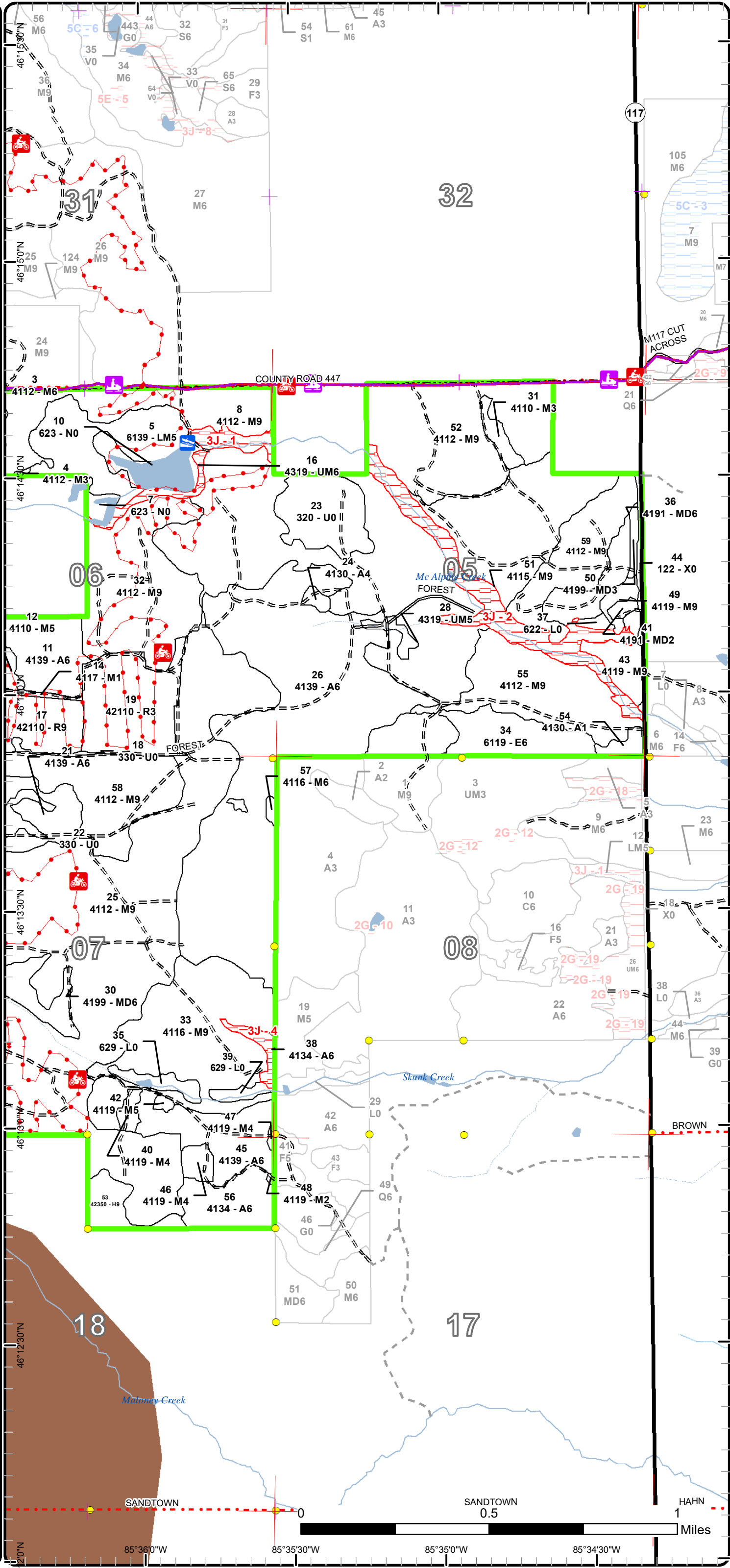


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Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit
Jennifer Burnham : Examiner

Compartment 180 Year of Entry 2022



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	4	0	58	287	0	4	1	0	0	0	0	0	0	0	0	0	354
Hemlock	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Low-Density Trees	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Deciduous	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Mixed Forest	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	40
Lowland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Marsh	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	6	0	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Northern Hardwood	0	0	0	10	19	4	0	75	0	613	36	356	0	0	0	0	0	0	1113
Red Pine	0	0	42	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	96
Upland Mixed Forest	0	0	0	0	3	0	0	13	0	0	0	0	0	0	0	0	0	0	16
Upland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	81	6	46	24	118	291	40	146	1	613	36	367	0	0	0	0	0	0	1769



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 180
Total Compartment Acres: 1,767

Commercial Harvest - 273
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	79	0	0	0	0	0	0	0	0	79
Low-Density Trees	18	0	0	0	0	0	0	0	0	18
Northern Hardwood	94	0	0	0	0	0	0	0	0	94
Red Pine	54	0	0	0	0	0	0	0	0	54
Upland Shrub	28	0	0	0	0	0	0	0	0	28
Total	273	0	0	0	0	0	0	0	0	273

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	273	0	0	0	0	0	0	0	0	273
Next Step	0	206	145	0	145	186	405	0	0	1086
Total	273	206	145	0	145	186	405	0	0	1360



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:

1	45180001-Cut	14.4	42110 - Planted Red Pine	Sawtimber Well	65	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut stand with no retention. Removing all species. Use herbicide to reduce competition to red pine.

Specs:

Next Step SitePrep, Trenching; Burn, Slash; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep,

Treatments: Other - Specify; Monitoring, Artificial Regen(3yr)

Acceptable Red pine.

Regen:

Other No retention to make aerial spraying safer.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

9	45180009-Cut	1.5	4130 - Aspen	Poletimber Poor	40	1-50	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest with no retention due to small acreage.

Specs:

Next Step ; ; ; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen and species that are currently present.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

13	45180013-Cut	1.2	4130 - Aspen	Sawtimber Well	72	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut with no retention due to the small acreage. There is good stand representation in stand 11 and to the west that can be considered retention to stand 13..

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Aspen and other species that are currently in the stand.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

14	45180014-Cut	5.3	4117 - Mixed N. Hardwood - Pine	Sapling Poor	23	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut stand with no retention due to small acreage. Herbicide will be needed to release red pine.

Specs:

Next Step SitePrep, Trenching; Burn, Slash; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); SitePrep, Roller Chopping; Monitoring,

Treatments: Artificial Regen(3yr); Pesticide, Aerial - Site Prep

Acceptable Red pine

Regen:

Other Add ORV protection verbiage to cutting specs.

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
15	45180015-Cut	18.6	42110 - Planted Red Pine	Sawtimber Well	65	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut stand with no retention. Herbicide use will be needed to reduce competition for red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Burn, Slash; Planting, Initial Plant; Monitoring, Artificial Regen(3yr); Monitoring, Artificial Regen(1yr); Pesticide, <u>Treatments:</u> Aerial - Site Prep; SitePrep, Roller Chopping</p> <p><u>Acceptable</u> Red pine <u>Regen:</u></p> <p><u>Other</u> No retention to make aerial spraying safer. Add ORV protection verbiage to the cutting specs. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
17	45180017-Cut	21.0	42110 - Planted Red Pine	Sawtimber Well	65	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with no retention. Herbicide will need to be used to reduce competition.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Burn, Slash; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, <u>Treatments:</u> Aerial - Site Prep; SitePrep, Roller Chopping</p> <p><u>Acceptable</u> Red pine <u>Regen:</u></p> <p><u>Other</u> No retention to make aerial spraying safer. Add ORV protection verbiage to cutting specs. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
18	45180018-Cut	1.4	330 - Low-Density Trees	Nonstocked		Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with no retention. Herbicide will need to be used to reduce competition.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Burn, Opening; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, <u>Treatments:</u> Roller Chopping; Pesticide, Aerial - Site Prep</p> <p><u>Acceptable</u> Red pine <u>Regen:</u></p> <p><u>Other</u> No retention to make aerial spraying safer. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
20	45180020-Cut	11.2	330 - Low-Density Trees	Nonstocked		Unspec ified	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut stand with retention of live trees on the west edge of the treatment near stand 25. Standing trees within the stand after harvest <u>Specs:</u> create a hazard for aerial spraying.</p> <p><u>Next Step</u> SitePrep, Trenching; Burn, Slash; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, <u>Treatments:</u> Aerial - Site Prep</p> <p><u>Acceptable</u> Red pine. <u>Regen:</u></p> <p><u>Other</u> No retention to make aerial spraying safer. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><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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21	45180021-Cut	39.5	4139 - Aspen, Mixed Deciduous	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut stand with retention of live trees on the edges of the treatment. Standing trees within the stand after harvest create a hazard for aerial spraying.
Specs:

Next Step SitePrep, Trenching; Burn, Slash; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Site Prep; Monitoring,
Treatments: Artificial Regen(3yr)

Acceptable Red pine
Regen:

Other No retention to make aerial spraying safer.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

22	45180022-Cut	5.7	330 - Low-Density Trees	Nonstocked		Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut stand with no retention. Standing trees within the stand after harvest create a hazard for aerial spraying.
Specs:

Next Step SitePrep, Trenching; Burn, Slash; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Site Prep; Monitoring,
Treatments: Artificial Regen(3yr)

Acceptable Red pine.
Regen:

Other No retention to make aerial spraying safer.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

33	45180033-Cut	75.2	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	66	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut stand leaving retention around the low areas by stands 38 and 39. Leave any yellow birch, hemlock, and white pine over 26" dbh.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Species that are currently present.
Regen:

Other Leave retention areas around the low types and the buffer for Skunk Creek.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

43	45180043-Cut	9.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut leaving hemlock, large white pine, and cedar. Other retention placed as buffer long creek and drainage.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Species mix of what is present now.
Regen:

Other
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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45	45180045-Cut	36.8	4139 - Aspen, Mixed Deciduous	Poetimber Well	37	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut leaving retention around the M4 stands.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Aspen with the other species that are currently present.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

49	45180049-Cut	4.1	4119 - Mixed Northern Hardwoods	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut leaving hemlock, large white pine, and any cedar present. Other retention can be placed along drainage.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Species mix of what is present now.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Approved Treatments:

23	45180023-Cut	27.8	320 - Upland Shrub	Nonstocked	0	Unspecified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut stand with retention of live trees on the edges of the treatment. Standing trees within the stand after harvest create a hazard for aerial spraying of the stand for release and pest management so all retention must be along the edges.

Specs:

Next Step Burn, Slash; Monitoring, Artificial Regen(1yr); Pesticide, (Inactive)Aerial; Pesticide, (Inactive)Aerial; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant

Treatments:

Acceptable Red Pine

Regen:

Other Approved through Ch 7 4/11/17

Comment:

Site Condition

Proposed Start Date: 10/1 /2017

Total Treatment 273.3
Acres Proposed:

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 180
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	3J
354	349	0	4	Aspen	4
11	11	0	0	Hemlock	
18	18	0	0	Low-Density Trees	
24	24	0	0	Lowland Deciduous	
40	40	0	0	Lowland Mixed Forest	
11	11	0	0	Lowland Shrub	
18	18	0	0	Marsh	
33	33	0	0	Mixed Upland Deciduous	
1112	1077	0	36	Northern Hardwood	36
96	96	0	0	Red Pine	
16	3	0	13	Upland Mixed Forest	13
28	28	0	0	Upland Shrub	
6	6	0	0	Urban	0
1,767	1,715		53	Total Forested Acres	53
	97%		3%	Relative Percent	

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Site condition is for BMP's and areas of heavy hemlock/conifer component. The site condition also includes slopes that would be difficult for equipment to get around while avoiding the conifer.</p>							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	36	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Buffer to creek. Stand also contains some good slopes. The conifer in the area offers a good WLD corridor. When surrounding hardwood is harvested it is possible to go into the stand a little to cut around some of the spp to help promote seedlings.</p>							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 180
Year of Entry: 2022

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
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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				
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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	42110 - Planted Red Pine	Sawtimber Well	14.4	65	141-170	N/A	Red pine are growing out of diameter class.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log	14	65	Sugar Maple	Low	5 - 10 feet	Sapling
					Beech	Medium	5 - 10 feet	Sapling
					Balsam Fir	High	5 - 10 feet	Sapling
					Cherry (spp.)	Low	5 - 10 feet	Sapling

2	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.2	107	51-80	N/A	Overstory is losing beech and maple is fair quality.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	20	Log/Pole	10		Mountain Ash	Low	>20 feet	Sapling
Red Maple	45	Log/Pole	12	107	Beech	Low	Variable	Sapling
Beech	7	Log/Pole	10		Maple (spp.)	Low	Variable	Sapling
Black Cherry	3	Log/Pole	10					
Yellow Birch	10	Pole	6					
Balsam Fir	15	Pole	6					

3	4112 - Maple, Beech, Cherry Association	Poletimber Well	10.4	80	81-110	N/A	Regen is under 5' and a maple beech mix. There is a small area of fir - aspen in the NE corner. Stand was thinned in 2016.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	36	Pole/Sap/Log	7	80	Balsam Fir	Medium	10 - 20 feet	Sapling
Red Maple	24	Pole/Sapling	7					
Black Cherry	20	Pole/Sapling	7					
Beech	20	Pole/Sapling	5					

4	4112 - Maple, Beech, Cherry Association	Sapling Well	7.6	33	1-50	N/A	Almost to a pole size stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Sapling/Pole	4	
Red Maple	15	Sapling/Pole	4	
Balsam Fir	10	Sapling/Pole	4	
Black Cherry	55	Sapling/Pole	4	33

5	6139 - Mixed Lowland Forest	Poletimber Medium	40.3	50	81-110	N/A	Fir is falling out of the stand but other spp are not ready for harvest.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Yellow Birch	2	Pole	5					
Paper Birch	18	Sapling/Pole	4					
Balsam Fir	35	Pole/Sapling	7	50				
White Spruce	2	Pole	8					
Black Spruce	3	Pole	6					
White Pine	5	Log	16					
Black Cherry	30	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6 4112 - Maple, Beech, Cherry Association Sawtimber Well 1.2 105 81-110 N/A large regen gaps to promote YB, 2002. harvest with adj Aspen stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	17	Log/Pole	11		Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	70	Log/XLog	16	105	Beech	Low	5 - 10 feet	Sapling
Yellow Birch	5	Log/Pole	13		Balsam Fir	Medium	5 - 10 feet	Sapling
Beech	2	Pole	7		Ironwood	Medium	>20 feet	Sapling
Quaking Aspen	2	Pole	9		Yellow Birch	Low	>20 feet	Pole
Balsam Fir	2	Pole	7					
Black Cherry	2	Pole	8					

7 623 - Emergent Wetland Nonstocked 3.8 Unspecified No Old beaver flooding.

8 4112 - Maple, Beech, Cherry Association Sawtimber Well 45.0 105 81-110 N/A Basal area is around 80 sq ft. with regeneration under 6' in the majority of places. Maple is coming in but beech will probably out sprout it and stand will be similar to adjacent hardwood stands. Stand was thinned in 2016.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log/Pole	10	105	Sugar Maple	High	< 5 feet	Sapling
Red Maple	15	Log/Pole	10		Red Maple	Medium	< 5 feet	Sapling
Black Cherry	7	Log/Pole	11		Beech	High	< 5 feet	Sapling
Beech	8	Pole	9		Balsam Fir	Low	5 - 10 feet	Sapling

9 4130 - Aspen Poletimber Poor 1.5 40 1-50 N/A Opening filling in.

Canopy Species	% Cover	Size Class	DBH	Age
Pin Cherry	10	Sapling	3	
Quaking Aspen	65	Pole/Sapling	6	40
White Spruce	5	Pole	7	
Red Maple	5	Pole/Sapling	5	
White Pine	5	Pole/Log	8	
Black Cherry	10	Pole/Sapling	6	

10 623 - Emergent Wetland Nonstocked 14.0 Unspecified No Old beaver flooding.

11 4139 - Aspen, Mixed Deciduous Poletimber Well 52.9 45 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Sapling	4	
Paper Birch	3	Pole	7	
Quaking Aspen	55	Pole/Sapling	6	45
Balsam Fir	7	Pole/Sapling	5	
Black Cherry	15	Pole/Sapling	7	
Ironwood	5	Sapling/Pole	4	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 4110 - Sugar Maple Association Poletimber Medium 11.7 105 51-80 N/A Beech dead or dying with many beech stems in the understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Pole/Log	9	105	Beech	High	5 - 10 feet	Sapling
Yellow Birch	3	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
Beech	7	Pole/Log	8		Ironwood	Medium	5 - 10 feet	Sapling
Red Maple	10	Pole/Log	9		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub

13 4130 - Aspen Sawtimber Well 1.2 72 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	37	Pole/Log	9		Yellow Birch	Low	10 - 20 feet	Sapling
Beech	3	Pole	7		Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	60	Log/XLog/Pole	14	72	Ironwood	Low	10 - 20 feet	Sapling

14 4117 - Mixed N. Hardwood - Pine Sapling Poor 5.3 23 1-50 N/A Area filling in with many different spp. Not a plantation.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	25	Sapling	4	23
Red Maple	20	Sapling	4	
Beech	10	Sapling	3	
White Pine	5	Pole	8	
Red Pine	25	Pole/Sapling	5	23
Black Cherry	15	Pole	8	

15 42110 - Planted Red Pine Sawtimber Well 18.6 65 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	12	65	Sugar Maple	High	5 - 10 feet	Sapling
					Red Maple	Low	5 - 10 feet	Sapling
					Beech	Low	5 - 10 feet	Sapling
					Balsam Fir	Low	5 - 10 feet	Sapling

16 4319 - Mixed Upland Forest Poletimber Well 12.7 63 51-80 N/A Stand has slop to the lowland and creek. Leave for BMP and diversity.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	10	Pole/Log	9					
Balsam Fir	31	Pole	6	63				
White Spruce	27	Log/Pole	12					
Black Cherry	17	Pole	7					

17 42110 - Planted Red Pine Sawtimber Well 21.0 65 141-170 N/A Growing out of logs.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log	16	65	Balsam Fir	Low	10 - 20 feet	Sapling
					White Spruce	Low	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
18	330 - Low-Density Trees	Nonstocked	1.4		Unspecified	No	Open area filling in.																																								
19	42110 - Planted Red Pine	Sapling Well	41.7	11	Immature	N/A	Pine is about 20' tall. Stand came through the ice storm with little to no damage to the trees.																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>85</td> <td>Sapling</td> <td>3</td> <td>11</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Beech</td> <td>5</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>4</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	85	Sapling	3	11	Red Maple	5	Sapling	4		Beech	5	Sapling	4		Black Cherry	5	Sapling	4																
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Red Pine	85	Sapling	3	11																																											
Red Maple	5	Sapling	4																																												
Beech	5	Sapling	4																																												
Black Cherry	5	Sapling	4																																												
20	330 - Low-Density Trees	Nonstocked	11.2		Unspecified	No	Old opening slowly filling in, mainly with cherry.																																								
21	4139 - Aspen, Mixed Deciduous	Poletimber Well	39.5	49	51-80	N/A																																									
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Canopy Species	% Cover	Size Class	DBH	Age																																											
Sugar Maple	15	Sapling/Pole	3																																												
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Red Maple	5	Pole/Sapling	6																																												
22	330 - Low-Density Trees	Nonstocked	5.7		Unspecified	No	Old opening slowly filling in. Mainly cherry filling in.																																								
23	320 - Upland Shrub	Nonstocked	27.8	0	Unspecified	4211 - Planted Red Pine	Stand was harvested this winter 2020.																																								
24	4130 - Aspen	Poletimber Poor	2.1	40	1-50	N/A																																									
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Red Maple	5	Pole/Sapling	5																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25 4112 - Maple, Beech, Cherry Association Sawtimber Well 588.7 85 81-110 N/A

The majority of the stand has little to no under story. The conifer component includes various heights and diameters. Maple die-back in over story trees with mature beech dying. There are many areas where the stand is more pole than log along with a lower BA.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	65	Log/Pole	10	85	Sugar Maple	Trace	>20 feet	Sapling
Red Maple	15	Log/Pole	10		Red Maple	Trace	>20 feet	Sapling
Black Cherry	7	Pole/Log	9		Mountain Maple	Low	10 - 20 feet	Sapling
Hemlock	3	Log/Pole	10		Balsam Fir	Trace	Variable	Sapling
Yellow Birch	3	Log/Pole	12					
Ironwood	2	Pole/Sapling	5					
White Spruce	3	Log/Pole	10					

26 4139 - Aspen, Mixed Deciduous Poletimber Well 190.3 40 51-80 N/A

Conifer is mainly balsam fir, 6" dbh. It is found on lower ground and Aspen is of poorer quality. The north 1/2 of the stand was harvested in 80' and the south 1/2 harvested in '84.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Sapling	7	
Beech	2	Sapling	3	
Quaking Aspen	51	Pole/Sapling	7	40
Balsam Fir	10	Pole/Sapling	7	
Black Cherry	20	Pole/Sapling	6	
Ironwood	2	Sapling	4	

27 4119 - Mixed Northern Hardwoods Poletimber Well 3.8 45 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Pole/Sapling	6	
Red Maple	20	Pole/Sapling	7	
Yellow Birch	2	Sapling	3	
Paper Birch	5	Pole	8	
Balsam Fir	15	Pole/Sapling	5	
Black Cherry	35	Pole	8	45
Bigtooth Aspen	5	Pole	8	
Mountain Ash	3	Pole/Sapling	7	

28 4319 - Mixed Upland Forest Poletimber Medium 3.4 30 51-80 N/A Area was forested and then opening, converting back to forested.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole	8	
Balsam Fir	10	Pole	7	
White Pine	30	Pole	7	42
Black Cherry	30	Pole	8	30
Quaking Aspen	5	Pole	7	
White Spruce	5	Pole/Sapling	5	

29 122 - Road/Parking Lot Nonstocked 1.0 No Parking lot for trail use.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 4199 - Other Mixed Upland Deciduous Poletimber Well 13.6 37 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Sapling/Pole	4	37
Red Maple	18	Pole/Sapling	5	
Paper Birch	15	Sapling/Pole	4	
Quaking Aspen	15	Sapling/Pole	4	
Balsam Fir	5	Sapling/Pole	4	
Black Cherry	17	Pole/Sapling	5	
Ironwood	3	Sapling	2	
Mountain Ash	2	Pole/Sapling	6	
White Spruce	5	Pole	6	

31 4110 - Sugar Maple Association Sapling Well 4.9 26 Immature N/A

Stand had a shelterwood cut in 1994. Not much overstory left to remove. Regeneration looks good with better diversity than surrounding stand about 25' tall.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	55	Sapling/Pole	4	26
Black Cherry	25	Sapling/Pole	4	
Beech	15	Sapling	2	
Ironwood	5	Sapling	4	

32 4112 - Maple, Beech, Cherry Association Sawtimber Well 67.1 105 51-80 N/A

Stand was thinned in 2014. The stand is heavy to beech regeneration with hard maple, cherry, yellow birch, and mt.maple. Basal area is around 50-100. Regeneration in areas heavily thinned is mainly 20' beech.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	55	Log/Pole	13	105
Red Maple	33	Log/Pole	10	
Black Cherry	7	Pole/Log	9	
Hemlock	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Beech	High	10 - 20 feet	Sapling
Hemlock	Low	>20 feet	Sapling
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Cherry (spp.)	Low	5 - 10 feet	Sapling

33 4116 - Mixed N. Hardwood - Aspen Sawtimber Well 75.2 66 81-110 N/A

Areas of this stand were harvested (I believe final harvested) in '61 and '70.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Log	8	66
Red Maple	35	Log/Pole	10	66
Beech	5	Log	10	
Paper Birch	10	Pole	7	
Quaking Aspen	25	Log/Pole	10	
Black Cherry	15	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling
Mountain Ash	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34 6119 - Mixed Lowland Deciduous Forest Poletimber Well 23.8 36 1-50 N/A Poor site due to high water table. Moving out of saplings and into poles.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Pole/Sapling	6	
Red Maple	10	Pole/Sapling	6	
Paper Birch	25	Pole/Sapling	7	
Quaking Aspen	30	Pole/Sapling	6	36
Balsam Fir	15	Pole/Sapling	5	
Black Cherry	5	Pole/Sapling	6	
Black Ash	5	Sapling/Pole	4	
Northern White Cedar	3	Pole/Log	9	
Mountain Ash	2	Pole/Sapling	5	

35 629 - Mixed non-forested wetland Nonstocked 5.7 0 No Beaver activity has added to the flooded areas of the stand.

36 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 13.7 26 1-50 N/A Average dbh is around 4, with many trees moving into 5 or 6 inch class. Fairly healthy stand. The area to the N is smaller in height and dbh. Harvested with TS# 24-93-1.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Pole/Sapling	5	
Red Maple	15	Pole/Sapling	5	
Quaking Aspen	25	Pole/Sapling	5	26
Balsam Fir	10	Sapling/Pole	3	
White Spruce	3	Sapling	3	
White Pine	7	Log/XLog/Pole	14	
Hemlock	5	Pole	8	
Black Cherry	15	Sapling	3	

37 622 - Lowland Shrub Nonstocked 1.8 No Low area with open water. Good ridge on S. edge of stand contains mature W.P, hemlock, and smaller maple.

38 4134 - Aspen, Spruce/Fir Poletimber Well 4.3 68 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Log	9	
Quaking Aspen	55	Log/Pole	12	68
Balsam Fir	10	Pole	8	
White Spruce	10	Log	10	
Balsam Poplar	5	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling

39 629 - Mixed non-forested wetland Nonstocked 3.1 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
40	4119 - Mixed Northern Hardwoods	Poletimber Poor	3.2	39	1-50	N/A																																									
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Paper Birch	10	Pole/Sapling	7																																												
41	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	1.8	5	1-50	N/A	Old gravel pit filling in with trees.																																								
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Canopy Species	% Cover	Size Class	DBH	Age																																											
Red Maple	25	Sapling	1	5																																											
Quaking Aspen	25	Sapling	1																																												
Balsam Fir	10	Sapling	1																																												
White Pine	25	Sapling	4																																												
Beech	15	Sapling	1																																												
42	4119 - Mixed Northern Hardwoods	Poletimber Medium	1.1	35	111-140	N/A																																									
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Balsam Fir	5	Pole	8																																												
Black Cherry	55	Pole/Sapling	7	35																																											
43	4119 - Mixed Northern Hardwoods	Sawtimber Well	9.6	85	81-110	N/A																																									
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Black Cherry	5	Pole	8																																												
Hemlock	15	Log/Pole	12																																												
44	122 - Road/Parking Lot	Nonstocked	5.3			No																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45 4139 - Aspen, Mixed Deciduous Poletimber Well 36.8 37 111-140 N/A

All species have sapling size trees present. There are trace amounts of mt. ash and mt. maple in the stand. Fir and aspen to the south are closer to treatment then to the north.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	7	
Paper Birch	15	Pole	8	
Quaking Aspen	40	Pole	8	37
Balsam Fir	10	Pole	7	
Black Cherry	10	Pole	8	
White Spruce	5	Pole	8	

46 4119 - Mixed Northern Hardwoods Poletimber Poor 4.6 35 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	50	Pole/Sapling	6	35
Paper Birch	35	Pole	7	
Beech	5	Sapling	2	
Red Maple	10	Sapling	4	

47 4119 - Mixed Northern Hardwoods Poletimber Poor 0.6 35 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	55	Pole/Sapling	7	35
Bigtooth Aspen	15	Pole/Sapling	7	
Red Maple	15	Pole/Sapling	5	
Paper Birch	10	Pole/Sapling	7	
Balsam Fir	5	Pole	8	

48 4119 - Mixed Northern Hardwoods Sapling Medium 0.3 35 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	55	Pole/Sapling	7	35
Bigtooth Aspen	15	Pole/Sapling	7	
Red Maple	15	Pole/Sapling	5	
Paper Birch	10	Pole/Sapling	7	
Balsam Fir	5	Pole	8	

49 4119 - Mixed Northern Hardwoods Sawtimber Well 4.1 85 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	9	
White Pine	5	XLog/Log	18	
Red Maple	45	Pole/Log	9	85
Beech	10	Log/Pole	12	
Balsam Fir	15	Pole	7	
Black Cherry	5	Pole	8	
Hemlock	15	Log/Pole	12	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50 4199 - Other Mixed Upland Deciduous Sapling Well 4.2 2 1-50 N/A Recently harvested.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Sapling	1	
Red Maple	20	Sapling	1	
Quaking Aspen	35	Sapling	1	2
White Spruce	3	Sapling	3	
White Pine	2	Log/XLog/Pole	14	
Black Cherry	15	Sapling	1	
Paper Birch	10	Sapling/Pole	4	

51 4115 - Y.Birch, Hemlock NH Sawtimber Well 35.6 95 81-110 N/A Stand is the buffer for previous timber sales. This makes a good WLD corridor and protects the water body with the slopes that are present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole/Log	9	105	Beech	Low	5 - 10 feet	Sapling
Red Maple	40	Log/Pole	10	95	Hemlock	Low	>20 feet	Sapling
Black Cherry	5	Pole/Log	9		Cherry (spp.)	Low	5 - 10 feet	Sapling
Hemlock	25	Log/Pole	10		Mountain Maple	Low	10 - 20 feet	Sapling
Northern White Cedar	5	Log/Pole	10	105				
White Pine	5	XLog/Log	18					
Balsam Fir	5	Pole/Sapling	7					
Yellow Birch	5	Log/Pole	12					

52 4112 - Maple, Beech, Cherry Association Sawtimber Well 78.1 105 51-80 N/A Stand was thinned in 2014. The stand is heavy to beech regeneration with hard maple, cherry, yellow birch, and mt.maple. Basal area is around 50-100. Regeneration in areas heavily thinned is mainly 20' beech.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Log/Pole	13	105	Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	33	Log/Pole	10		Red Maple	Low	10 - 20 feet	Sapling
Black Cherry	7	Pole/Log	9		Beech	High	10 - 20 feet	Sapling
Hemlock	5	Log/Pole	10		Hemlock	Low	>20 feet	Sapling
					Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
					Cherry (spp.)	Low	5 - 10 feet	Sapling

53 42350 - Upland Hemlock Sawtimber Well 11.3 105 81-110 N/A The areas of low are small drains and is where the cedar is found. All species are of good quality. When treating stand 25, cut into the stand where possible to promote conifer regeneration. Trace amount of 18+ dbh white pine.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	10	
Hemlock	75	Log/Pole	16	105
Yellow Birch	5	Log/Pole	14	
Paper Birch	5	Pole	7	
Northern White Cedar	5	Pole/Log	8	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54 4130 - Aspen Sapling Poor 3.7 10 1-50 N/A Harvested with compartment to the south.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Sapling	2	
Beech	5	Sapling	2	
Balsam Fir	5	Sapling	2	
Black Cherry	5	Sapling	2	
Bigtooth Aspen	35	Sapling	2	
Quaking Aspen	45	Sapling	2	10

55 4112 - Maple, Beech, Cherry Association Sawtimber Well 63.0 105 51-80 N/A Stand was thinned in 2014. The stand is heavy to beech regeneration with hard maple, cherry, yellow birch, and mt.maple. Basal area is around 50-100. Regeneration in areas heavily thinned is mainly 20' beech.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Log/Pole	13	105	Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	33	Log/Pole	10		Red Maple	Low	10 - 20 feet	Sapling
Black Cherry	7	Pole/Log	9		Beech	High	10 - 20 feet	Sapling
Hemlock	5	Log/Pole	10		Hemlock	Low	>20 feet	Sapling
					Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
					Cherry (spp.)	Low	5 - 10 feet	Sapling

56 4134 - Aspen, Spruce/Fir Poletimber Well 21.4 37 111-140 N/A All species have sapling size trees present. There are trace amounts of mt. ash and mt. maple in the stand. Fir and aspen to the S are closer to treatment then to the N.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	7	
Paper Birch	5	Pole	8	
Quaking Aspen	45	Pole	8	37
Balsam Fir	30	Pole	7	
Black Cherry	10	Pole	8	
White Spruce	5	Pole	8	

57 4116 - Mixed N. Hardwood - Aspen Poletimber Well 1.9 35 1-50 N/A Constructed opening, filling in.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Sapling	5	
Quaking Aspen	20	Pole/Sapling	5	35
Balsam Fir	10	Pole/Sapling	7	
Black Cherry	55	Pole/Sapling	5	35



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58 4112 - Maple, Beech, Cherry Association Sawtimber Well 47.0 105 51-80 N/A

Stand was thinned in 2014. The stand is heavy to beech regeneration with hard maple, cherry, yellow birch, and mt.maple. Basal area is around 50-100. Regeneration in areas heavily thinned is mainly 20' beech.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	55	Log/Pole	13	105
Red Maple	33	Log/Pole	10	
Black Cherry	7	Pole/Log	9	
Hemlock	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Beech	High	10 - 20 feet	Sapling
Hemlock	Low	>20 feet	Sapling
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Cherry (spp.)	Low	5 - 10 feet	Sapling

59 4112 - Maple, Beech, Cherry Association Sawtimber Well 34.3 105 51-80 N/A

Stand was thinned in 2014. The stand is heavy to beech regeneration with hard maple, cherry, yellow birch, and mt.maple. Basal area is around 50-100. Regeneration in areas heavily thinned is mainly 20' beech.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	55	Log/Pole	13	105
Red Maple	33	Log/Pole	10	
Black Cherry	7	Pole/Log	9	
Hemlock	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Beech	High	10 - 20 feet	Sapling
Hemlock	Low	>20 feet	Sapling
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Cherry (spp.)	Low	5 - 10 feet	Sapling