

Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 126 Entry Year 2015

Acreage: 1,732
County Mackinac

Management Area: Mackinac Mix

Revision Date: 07/01/2013

Stand Examiner: Josh Brinks

Legal Description:

T44N-R7W, Sections 34 - 36

Identified Planning Goals:

The compartment is located 3 miles east of Rexton and ½ mile east from the burg of Caffey Corner. The compartment is composed of mostly treed bog, bog, and swamp conifers types with upland areas of aspen, birch, grassy openings and maple types. The black spruce is filling in across the bogs.

The island ridges in the bog are mostly covered with birch and aspen stands with some grassy openings. The ridges are scenic especially with fall foliage. Most of the accessible aspen stands were harvested within the last 20 years. The railroad blocks access to the pockets of aspen running along the road at the north end of the compartment. The aspen stands on Sand Products land in the south portion of Section 34 have been harvested in the last 2 years. The only stand prescribed for management is a hardwood stand where the beech is being salvaged because of beech bark disease. The snowmobile trail runs through the compartment on two different roads.

Soil and topography:

The majority of the outwash plain and lake plains are undulating to level with some rolling to steep ridges. The majority of the compartment is depressions in the lake plains and outwash plains are nearly level with Dawson and Loxley peats and Markey and Carbondale mucks soils. The variation is the ridges within the depression which are Pullup fine sand, Wallace sand, Paquin sand, Paquin-Finch sand, Springlake loamy course sand, Guardlake fine sandy loam, Finch sand and Croswell sand soils. The majority of the uplands are in Section 34. The uplands are level to rolling with some steep ridges are composed of Wallace sand, Springlake loamy course sand, and losco sand on the lake plain and outwash plains.

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

The compartment has one private parcel of 180 acres within Section 34 owned by Sand Products Corporation. Timber management has taken place on the Sand Products lands within the past 2 years. No mineral operations have taken place on this property in the past 10 years. There is a limestone rock quarry in the southwest corner of Section 34. A land trade had taken place to block up the ownership of both the private and state lands. The lands surrounding the compartment are state owned. Two small burgs are within a ½ mile to the west is Caffey Corner and Strouble Lake to the south.

Unique Natural Features:

There is a potential for rare threatened or endangered plant and animal species within the compartment. The stand to be managed will be checked for species of concern especially raptors. If any species are found then management will be modified to fit the management guidelines for the species found.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

The planned harvest should not conflict with the snowmobile trail in the south half of Section 34.

Watershed and Fisheries Considerations:

The portion of this compartment that is in the Northern Lake Huron Management Unit is in the Carp River watershed. There are no waterbodies in the NLHMU portion of this compartment, so there is no concerns at this time.

Wildlife Habitat Considerations:

This compartment lies within the Mackinac Mix Management Area. Most of it is covered by muskeg. Moose, small rodents, snowshoe hares, bobcats and wood frogs are among those wildlife species that would inhabit this area. Upland areas in the southwest portion contain aspen and northern hardwoods that continue outside of the compartment.

Wildlife habitat objective in this compartment include maintaining the species and structural diversity within the hardwood

component and protecting the muskeg. A component of beech will be left in the northern hardwood stand to maintain diversity for black bear, hawks, and eventually cavity nesters. The rest of the compartment will be allowed to function naturally and continue the successional process with no habitat manipulations planned for this period. Other species utilizing the compartment include, but is not limited to white-tailed deer, coyote, wolf, beaver, otter, mink, eagle, osprey, and various others.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck and discontinuous glacial till over bedrock. There is insufficient data to determine the glacial drift thickness and 10 to 50 feet of drift. The Silurian Engadine and Manistique Groups subcrop below the glacial drift. The Engadine was quarried in the past for stone/limestone in the SW corner of Section 34. Gravel pits are not located in the area and potential may be limited. There is no economic oil and gas production in the UP.

Vehicle Access:

The access to the compartment is limited to the west 1/3. Hiawatha Trail is a county maintained paved road cuts by the very southwest of the compartment. The Molly Gibson Road is very poor DNR dirt road which can be not driven on most of the year. The water holes can be very deep. It is used as a portion of the snowmobile trail for Rexton to Trout Lake. The other roads are DNR two track roads with the snowmobile trail using the one trail road as a cut across trail from the Rexton to Trout Lake trail to the Cut River to Trout Lake trail. The ice road going north and south in Section 34 is not drivable and is barely wide enough for a snowmobile to traverse.

Survey Needs:

None needed at the present time.

Recreational Facilities and Opportunities:

Snowmobile trails #2 and 473 are located in portions of this compartment. Trail 2 barely touches the southwest corner of the compartment while 473 traverses the northwest corner. The Brevort-Trout Lake Motorcycle trail is located just south of the compartment, but does not enter it. Other recreational uses within the compartment are ATV riding, hunting for various species, trapping, and mushroom and berry picking.

Fire Protection:

The compartment has a low potential for wildfires with the timber types present. If there is a wildfire is this area it would be a lower intensity fire with a good potential to be a ground fire. This type of fire would very difficult to extinguish.

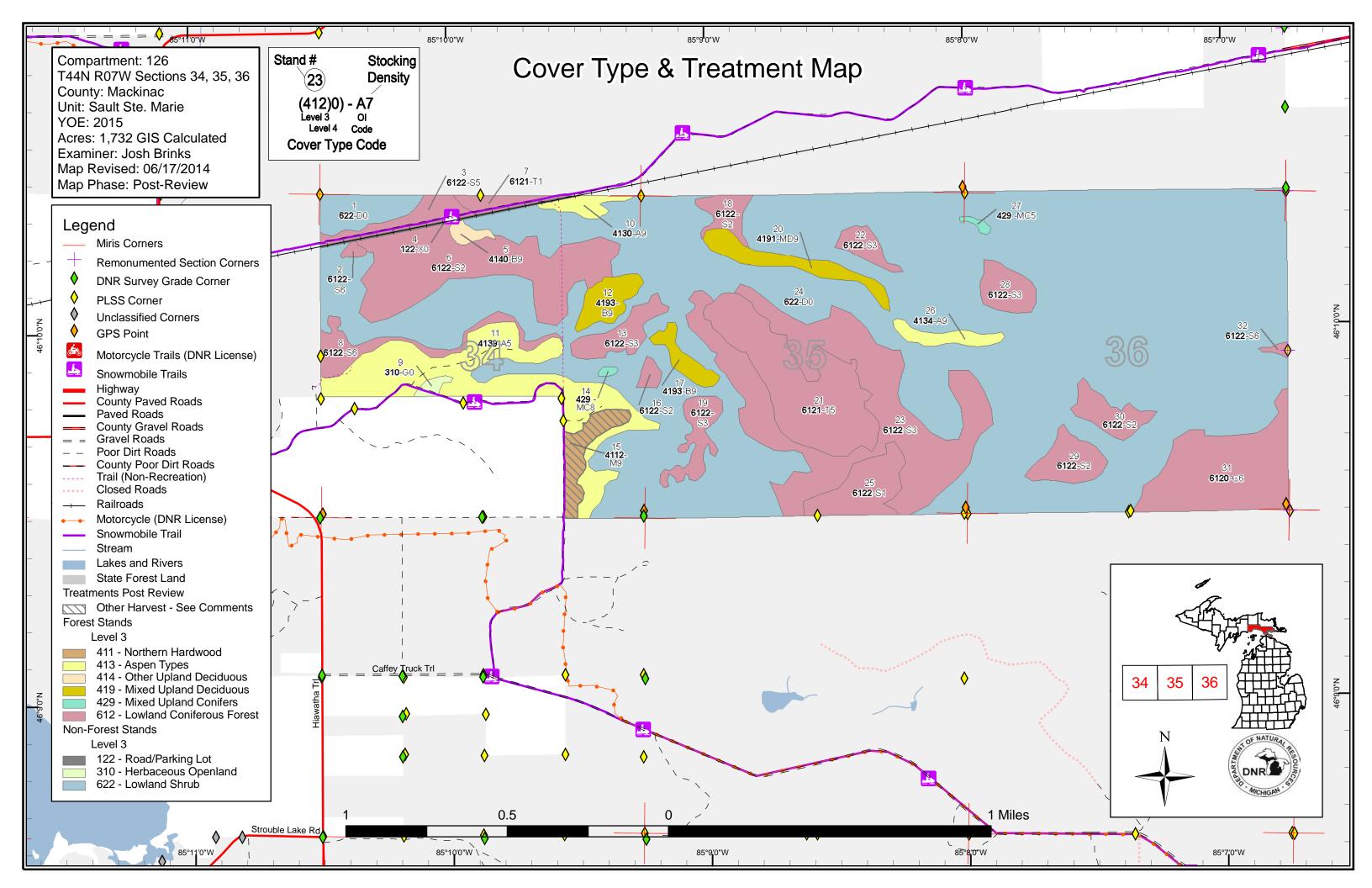
Additional Compartment Information:

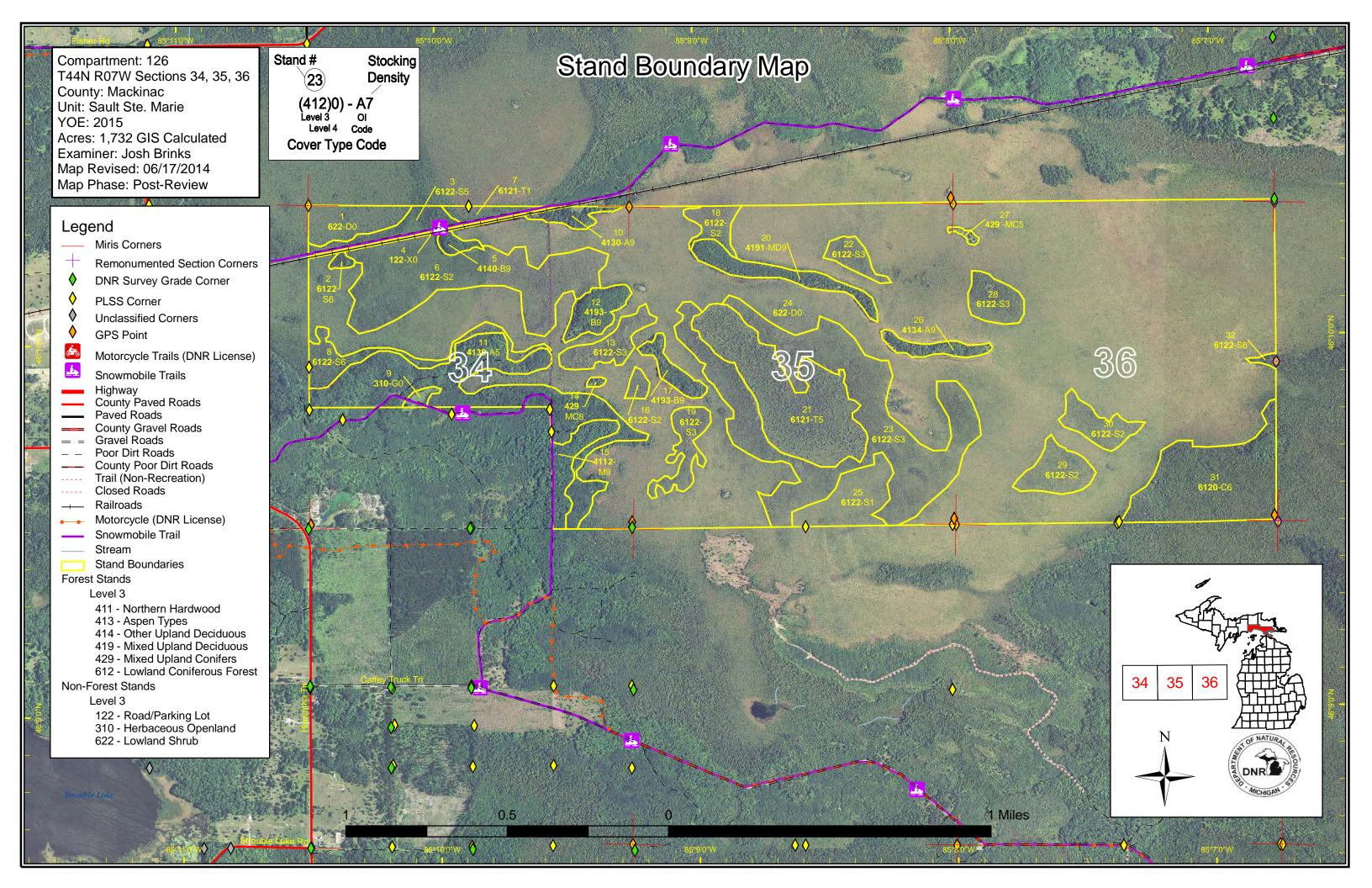
The following reports from the Inventory are attached:

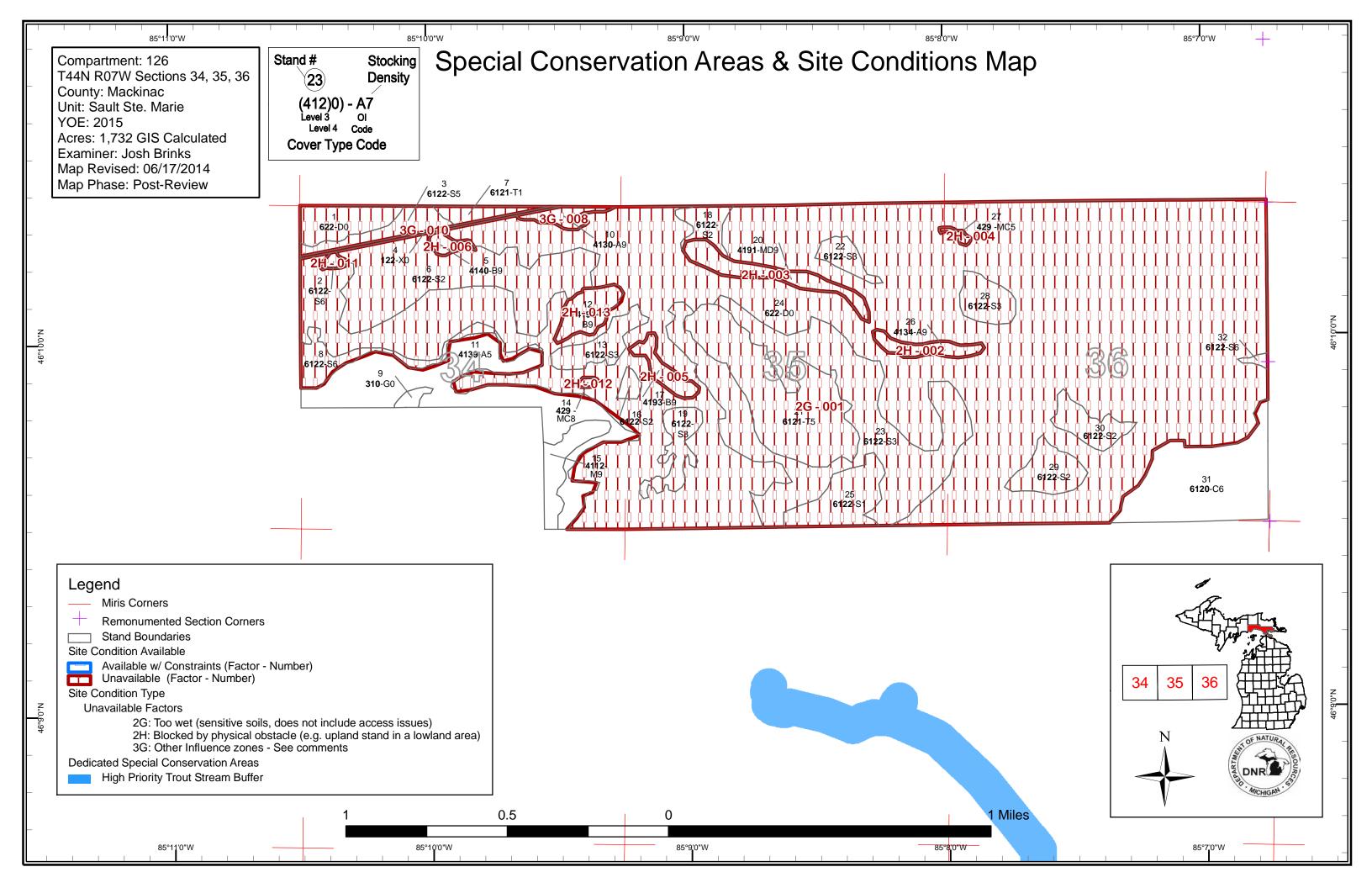
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

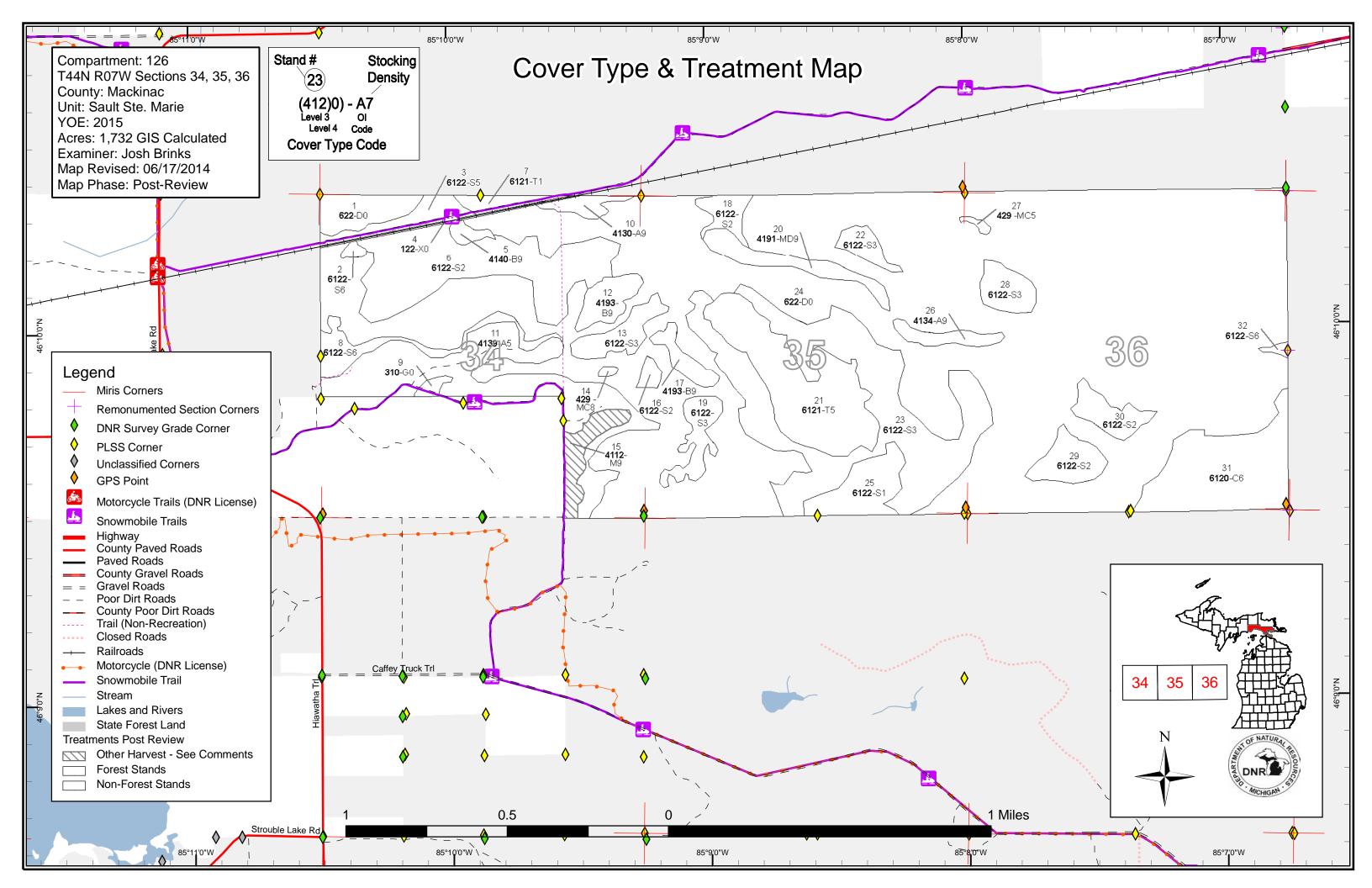
The following information is displayed, where pertinent, on the attached compartment maps:

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









Compartment 126 Year of Entry 2015

Sault Ste. Marie Mgt. Unit

Josh Brinks: Examiner



Age Class New Age 70,73 70,709 10.0 20.28 ⁶0, % × × Aspen Cedar Herbaceous Openland Lowland Spruce/Fir Mixed Upland Deciduous Northern Hardwood Paper Birch Tamarack Treed Bog Upland Conifers Urban

Total



Report 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit Year of Entry 2015

Compartment 126 Total Compartment Acres: 1,732

Acres by Treatment Type

Commercial Harvest - 15

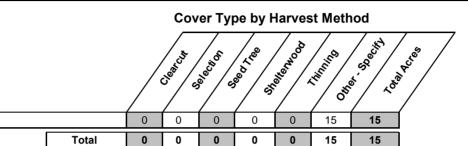
Northern Hardwood

Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 0



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Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 126
Year of Entry 2015

DEPARTME	DNR
	MICHIGAN

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	45126015-Cut	15.2	4112 - Maple, Beech, Cherry Association	High Density Log	87 J	51-80	Harvest	Other - Specify in Comments	4110 - Sugar Maple Association	Fld. Tr. Bdy.

<u>Prescription</u> Cut all beech. Leave 1-3 beech per acre that are large wolfy trees, resistant or have bear claw marks.

Specs:

s

Other Comments:

Next Monitor the stand for the possiblity of spraying the beech brush to release other regeneration.

Steps:

Proposed Start Date:

Start Date: 10/01/2012

Total Treatment

Acreage Proposed: 15.3

Sault Ste. Marie Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 126 a Site Condition s Year of Entry 2015 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Objective Method Status Name Range Density Age Type #Type! #Type! **Prescription** Specs: Other Comment: **Next** Steps: <u>Proposed</u> #Type! Start Date:

Total Treatment

Limiting Factor

Acreage Proposed: 0.0

Sault Ste. Marie Mgt. Unit **Compartment 126** Year of Entry 2015 Josh Brinks: Examiner

Availa	ability for I	V lanagement					
Total	Acres	Acres		Domina	nt Site	Cond	ditions
Acres	Available	Not Available		No	3G	2H	2G
104	85	19	Aspen	85	7	9	3
66	66		Cedar	66			
375	0	375	Lowland Spruce/Fir	0		2	373
18		18	Mixed Upland Deciduous			18	
15	15		Northern Hardwood	15			
25		25	Paper Birch			25	
81		81	Tamarack				81
2		2	Upland Conifers			2	
687	167	520	Total Forested Acres	167	7	56	457
	24%	76%	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.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
001	Not Available	2G: Too wet (sensitive soils, does not include access issues)	1,492				
C	Comments:						
002	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9				
	Comments: Ipland in a lowland	area					
003	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18				
	comments: pland in a lowland	area					

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004	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1		
	comments: pland in a lowland	area			
005	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9		
	comments: pland in a lowland	area			
006	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4		
C	Comments:				
800	Not Available	3G: Other Influence zones - See comments	7		
	comments: Cannot cross the ra	ilroad tracks.			
010	Not Available	3G: Other Influence zones - See comments	4		
	comments: Railroad				
011	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2		
C	Comments:				

Report 5 – Site Conditions

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012	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	
C	omments:			
013	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	13	3B: Threatened, endangered, and special concern species/communities
C	omments:			

Sault Ste. Marie Mgt. Unit

Compartment: 126 Year of Entry: 2015



Report 6 - 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
Comments				

Sault Ste. Marie Mgt. Unit Compartment: 126





Report 7 – 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	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area						
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical ristes of cultural and historical significance that may occur upon to bottomlands. They include thousands of Native American settler and British outposts, nineteenth century logging camps, mines at the Great Lakes, there are shipwrecks and other remains documbe identified by Natural heritage data from the State Historic Prethis compartment will be implemented in such a manner as to mathe sensitive nature of this information, no further detail about log	errestrial areas and Great Lakes nents and burial sites, as well as French and homesteads. Beneath the waters of nenting the maritime trade. Such sites may servation Office. Proposed treatments in aintain the integrity of these sites. Due to						
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Area 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 mo 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.							

S t	Sault Ste. Mari	e Mgt. Unit		Report 8	Forested	Stands Compartment: 126 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6122 - Black Spruce	High Density Pole	1.8	68	111-140	A small pole size stand of black spruce with a few scattered jack pine and tamarack that is very thick. Wet ground covered in leatherleaf.
3	6122 - Black Spruce	Medium Density Pole	13.8	39		Mostly black spruce with a patch of good tamarack. Low wet ground.
5	4140 - Other Upland Deciduous	High Density Log	3.7	84	141-170	Very nice stand of Birch on dry ground. Stand shows signs of being used by deer. Almost no chance of ever harvesting because of the railroad tracks.
6	6122 - Black Spruce	Medium Density	86.1	61		Stand of small black spruce that is patchy in places.
7	6121 - Tamarack	Low Density Sapling	7.1	26		Sapling size tamarack along the edge of a much bigger bog to the north. There are enough trees in this portion of the bog to consider it a forested stand. There are scattered pole size tamarack in the stand which are much more common on the east side.
8	6122 - Black Spruce	High Density Pole	18.4	29		Pole size spruce with tamarack and scattered paper birch.
10	4130 - Aspen	High Density Log	6.8	93		Nice stand of aspen and paper birch. There is more of a paper birch component the further east you go. On the far west side there are some X-Log aspen.
11	4139 - Aspen, Mixed Deciduous	Medium Density Pole	88.8	26	1-50	This stand is the ultimate mixing pot as a result of it being choppers choice harvested in 1987. Throughout the stand there are scattered large white pine but there is a larger concentration of them along the edge of the bog and up on top of the ridge. There are three different cohorts of aspen apparent in the stand. The oldest is 64 year old and is log size, then there is pole size which is 25 years old which is regeneration from the harvest in 87, finally there is sapling size apspen which is 16 years old which is regen from the harvest in 97. There are two pockets of smaller but very nice aspen regen one is located on the east edge of the hardwood stand and the other is at the tip of the point. Spruce is growing on the hill as the stand transitions into the bog.
12	4193 - Birch, Aspen	High Density Log	13.2	79	111-140	A very cool stand of birch and aspen out in the spruce swamp. There are a few mid-tolerants that are starting to grow into the canopy of the stand. There are some maples in the canopy and lots of maple in the understory. Lots of conifer around the edge of the stand. Some of the paper birch is starting to die. There are some yellow birch in the understory. Along the west edge of the stand as you come out of the swamp there is younger aspen with spruce, white pine, balsam fir, and scattered open areas.
13	6122 - Black Spruce	High Density Sapling	14.8	59		Sapling size stand of black spruce out in the bog. Some scattered larger tamarack and a few white pine.

429 - Mixed Upland Conifers

14

Medium Density Log

1.0

86

Small upland stand of white pine with paper birch and fir.

Sault Ste. Marie Mgt. Unit t			Report 8	– Forested	Stands Compartment: 126 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4112 - Maple, Beech, Cherry Association	High Density Log	15.2	87	51-80	Small hardwood stand with lots of nice looking yellow birch. Stand was last thinned in 2008 as part of Pigskin Hardwood. Lots of infected beech that should be salvaged. Understory is thick to beech in the interior of the stand with more conifer along the edge of the bog. Here are the results of three points taken for beech: 70 BA with 20 BA of it being beech, 70 BA with 30 BA of it being beech and 80 BA with 20 BA of it being beech.
16	6122 - Black Spruce	Medium Density	3.2	63		Sapling size black spruce with a few tamarack.
17	4193 - Birch, Aspen	High Density Log	8.6	82	111-140	An island of paper birch and aspen in the middle of the swamp. There is a pocket of upland cedar onthe west end of the stand. Trees are very mature.
18	6122 - Black Spruce	Medium Density	9.4	61	81-110	Stand of sapling size black spruce.
19	6122 - Black Spruce	High Density Sapling	14.2	62		Black spruce stand out in the bog. Just like the rest of the stuff in the area there is some tamarack mixed in.
20	4191 - Mixed Upland Deciduous with Conifer	High Density Log	18.2	81	111-140	This island is mostly birch with a heavy sub canopy of balsam and spruce. Lots of nice wood that is mature but there is very little chance of accessing for a harvest. There are some scattered cedar along the edges of this stand even some up on the dry ground. This stand is very steep on the west end and gradually goes down hill to the east.
21	6121 - Tamarack	Medium Density Pole	73.4	39		This stand has pole size tamarack in the canopy with a thick understory of sapling black spruce and scattered white pine. Could see the north end of this stand from just south of the birch island to the north.
22	6122 - Black Spruce	High Density Sapling	8.2	60		This stand of black spruce has slightly more tamarack then some of the others in this compartment.
23	6122 - Black Spruce	High Density Sapling	136.0	68		Another stand of mixed black spruce and tamarack. The canopy is sparse in a few places.
25	6122 - Black Spruce	Low Density Sapling	24.9	58		
26	4134 - Aspen, Spruce/Fir	High Density Log	8.7	81	111-140	Lots of nice birch and aspen. This island is mostly aspen compared to teh one to the west that is mostly birch. Its out in the middle of the spruce bog with no access for harvest.
27	429 - Mixed Upland Conifers	Medium Density Pole	1.4	87		A small upland island in the middle of the spruce bog.

6122 - Black Spruce

6122 - Black Spruce

28

29

High Density Sapling

> Medium Density

13.5

16.4

63

60

Thick black spruce and tamarack out in the bog.

Stand of black spruce. canopy is not as thick in this stand as

some of the others.

S t a n d	Sault Ste. Mari		Report 8	- Forested S	Stands	Compartment: 126 Year of Entry: 2015	DNR	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	
30	6122 - Black Spruce	Medium Density	13.5	60			out in the bog with a slightly then some of the others.	more open
31	6120 - Lowland Cedar	High Density Pole	65.8	127		harvest if we could get strip of spruce and tama	nat has some regen. Would there. The cedar transition track along the edge of the b nardwood located within the	s into a thin oog. There is
32	6122 - Black Spruce	High Density Pole	1.4	97				

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Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6224 - Treed Bog	18.2	Unspecified	Unspecified	
4	122 - Road/Parking Lot	3.6	Unspecified	Unspecified	
9	310 - Herbaceous Openland	2.7	Unspecified	Unspecified	
24	6224 - Treed Bog	1019.9	Unspecified	Unspecified	This is a very large treed bog stand. Some portions of this stand have enough trees to be considered forested but it is to patchy to pick out on the imagery. The bog is covered in leatherleaf and other bog species and has scattered black spruce and tamarack. There are lots of snags. There are also a few upland islands in this stand that were too small to meet mapping standards. They typically have white pine, spruce, fir, birch or aspen growing on them. The smaller ones seem to be mostly conifer with little birch or aspen.