



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 62

Entry Year 2015

Acreage: 1,642

County Chippewa

Management Area: Gogomain

Revision Date: 07/09/2013

Stand Examiner: Jeffery Wise

Legal Description:

T43N R02E Sections 25, 26, 27, 35, 36

Identified Planning Goals:

This block, acquired in 2006, will be maintained as deer yard with possible cedar treatments in the future. There is very little upland to manage but treatments will be prescribed as needed for habitat and silvicultural management.

Soil and topography:

Kalkaska-Rubicon well drained sandy soil west on the ridge of the Gogomain swamp. Markey-Dawson poorly drained muck down off the ridge in the swamp.

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

Private land on the south, west, and east side, very little upland with camps, and vacant property. North and east sides are surrounded by vast lowland conifer swamp referred to as the Gogomain Swamp. The north boundary is State land. Hunting and trapping are the primary uses.

Unique Natural Features:

The Gogomain ridge is a steep ridge separating upland sand plains and lowland cedar. It extends for approx ten miles in a prominent north west - south east line. The rich conifer swamp has the potential for many T & E species. MNFI is consulted before any management is prescribed.

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:

Deer yard, and special conservation area.

Watershed and Fisheries Considerations:

The South Branch Gogomain River, a warm transitional river, is adjacent to this compartment. No treatments are scheduled near the stream, so Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 62 is located north of M-48 northwest of Goetzville in the Gogomain swamp. Lowland conifer swamp composed primarily of white cedar dominates. Other common species include black spruce, tamarack, and scattered white pine. The composition is typical of the swamp. On the west end, a sandy ridge rises out of the swamp and supports a mix of maple, aspen, birch, and spruce. The southern end contains a mix of aspen, maple, hemlock, and other species as the terrain rises out of the swamp. Wildlife species use includes white-tailed deer, black bear, bobcat, coyote, fisher, marten, hawks, chickadees, and thrushes.

This compartment is part of a larger holding that was recently purchased as part of the deer range improvement program. Wildlife goals are to develop a management plan that will include revitalizing the deer yard in this area.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck and minor lacustrine (lake) sand and gravel. The glacial drift thickness varies between 50 and 100 feet. The Silurian Manitoulin Dolomite, Cabothhead Shale and Burnt Bluff Group subcrop below the glacial drift. The Manitoulin and Burnt Bluff are quarried for stone elsewhere in the UP. The nearest gravel pit is located 1.5 miles to the northeast and potential appears limited. There is no economic oil and gas production in the UP.

Vehicle Access:

M-48 borders the compartment on the south side and a two track extends into the compartment for less than a mile. E. Sand Ridge Road borders a small parcel that extends to the west from the main compartment. There is a two track entering

here also but it is gated unnecessarily.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Snowmobile trail #491 runs along the Sand Ridge road. This is the only developed recreation facility within this compartment.

Fire Protection:

There is no water near the compartment. Raber Bay is only two miles east, however, it is several miles to access the bay from Raber. One two track enters the compartment from M-48.

Additional Compartment Information:

The following reports from the Inventory are attached:

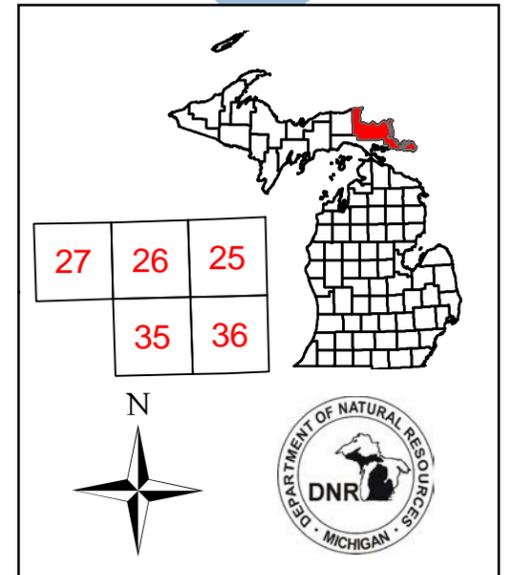
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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 & Treatment Map

Compartment: 062
 T43N R02E Sections 25-27, 35, 36
 County: Chippewa
 Unit: Sault Ste. Marie
 YOE: 2015
 Acres: 1,641 GIS Calculated
 Examiner: Jeffery Wise
 Map Revised: 06/17/2014
 Map Phase: Post-Review



Stand # 23
 Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

- Miris Corners
- Remonumented Section Corners
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments Post Review

- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

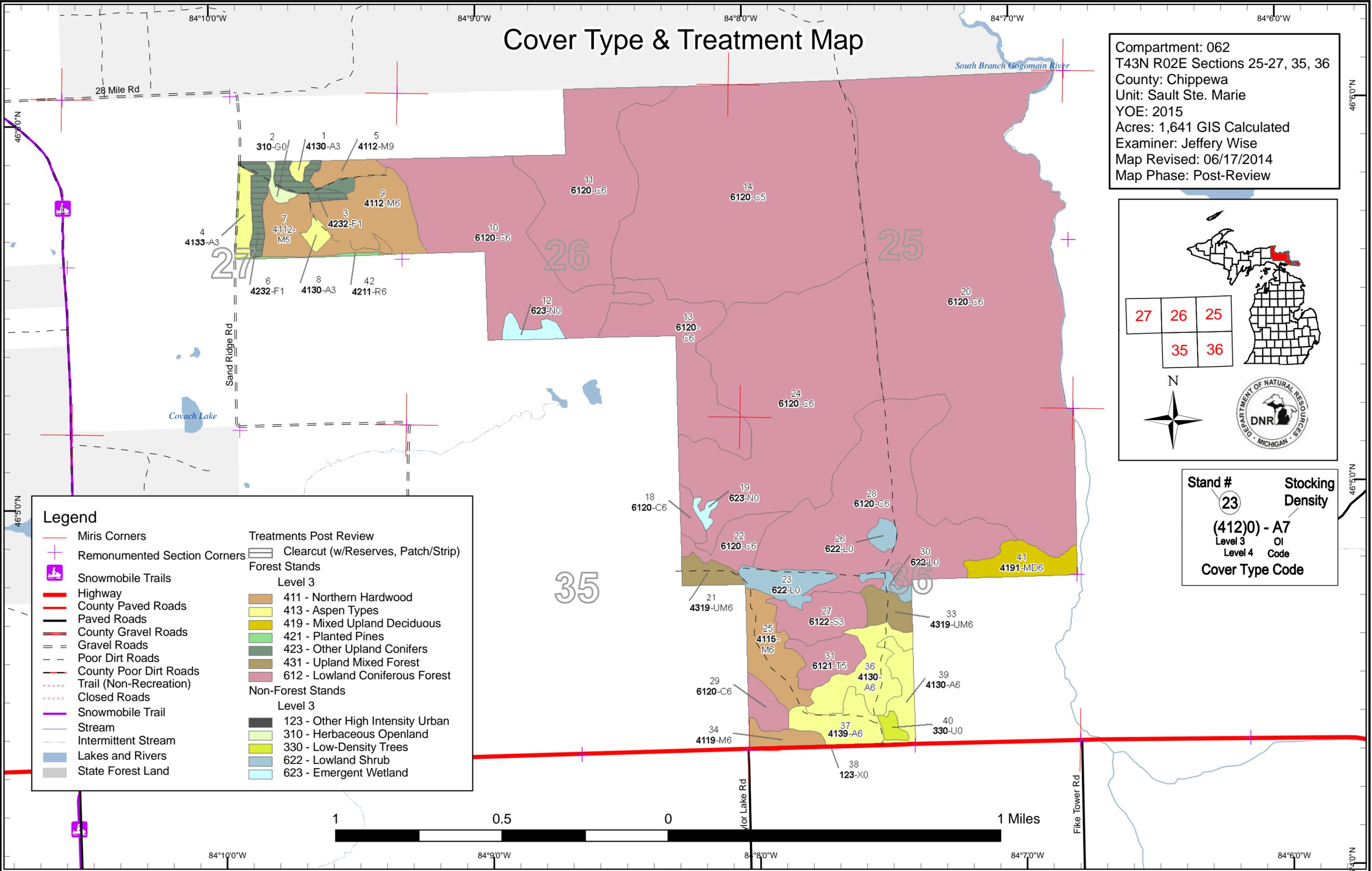
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

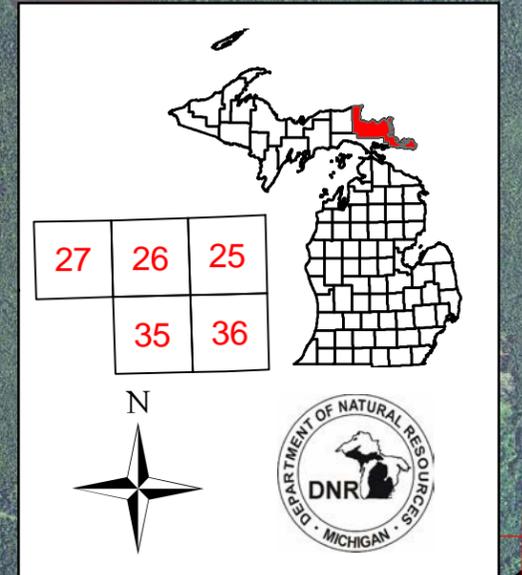
Level 3

- 123 - Other High Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map

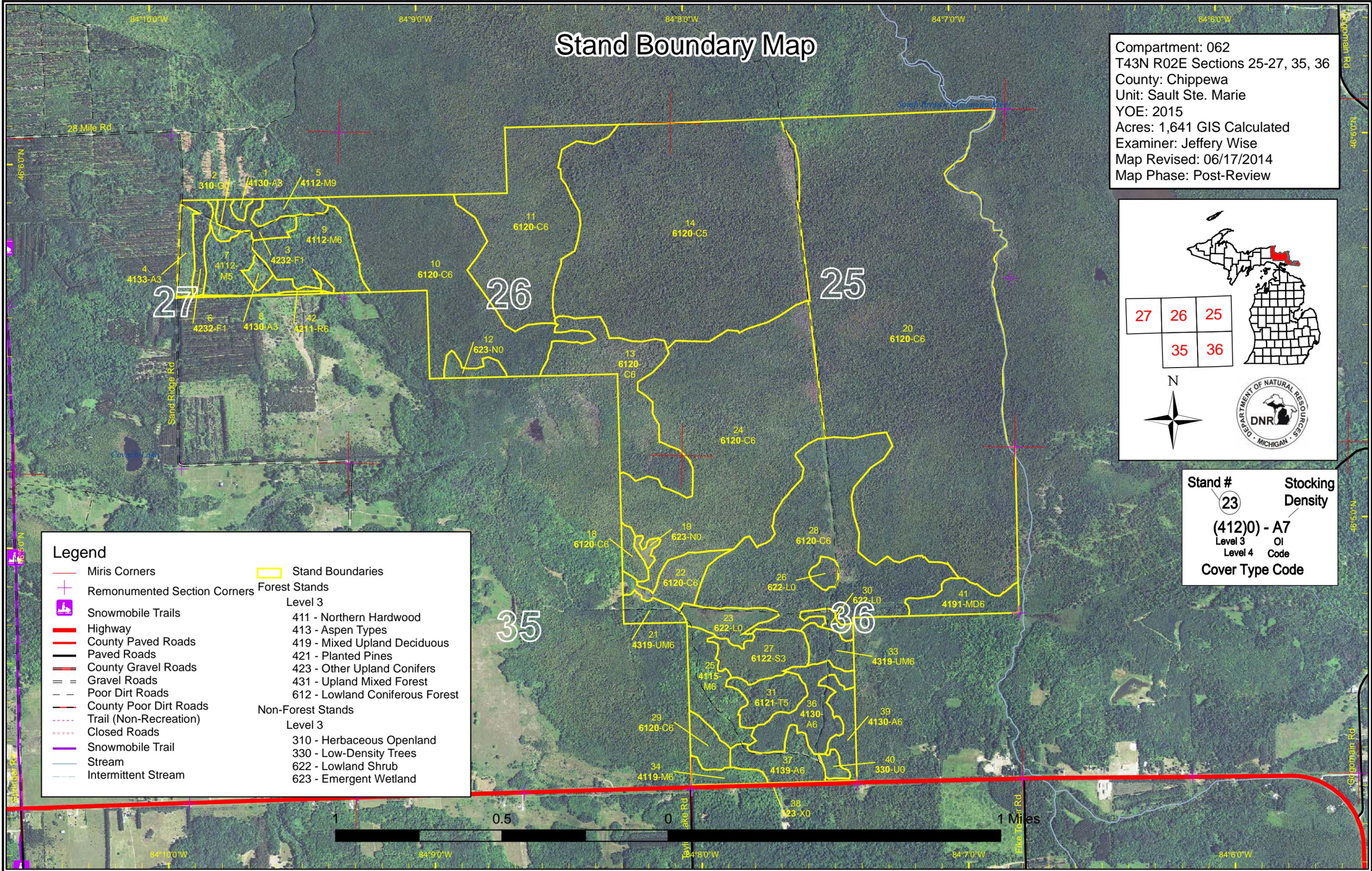
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Legend

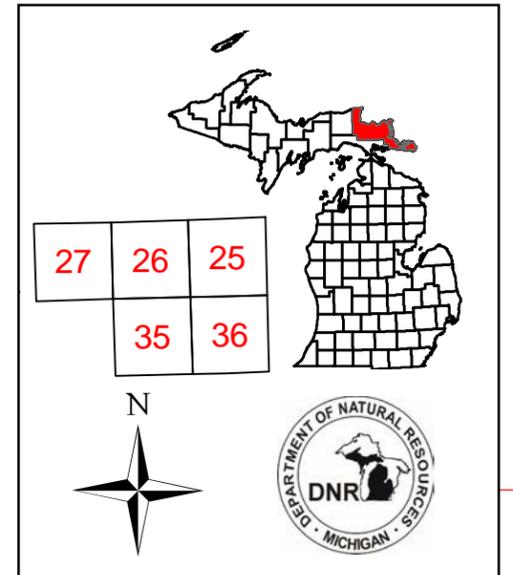
	Miris Corners		Stand Boundaries
	Remonumented Section Corners		Forest Stands
	Snowmobile Trails	Level 3	
	Highway	411 - Northern Hardwood	
	County Paved Roads	413 - Aspen Types	
	Paved Roads	419 - Mixed Upland Deciduous	
	County Gravel Roads	421 - Planted Pines	
	Gravel Roads	423 - Other Upland Conifers	
	Poor Dirt Roads	431 - Upland Mixed Forest	
	County Poor Dirt Roads	612 - Lowland Coniferous Forest	
	Trail (Non-Recreation)	Non-Forest Stands	
	Closed Roads	Level 3	
	Snowmobile Trail	310 - Herbaceous Openland	
	Stream	330 - Low-Density Trees	
	Intermittent Stream	622 - Lowland Shrub	
		623 - Emergent Wetland	

Stand #	Stocking Density
23	
(412)0 - A7	
Level 3	OI
Level 4	Code
Cover Type Code	



Special Conservation Areas & Site Conditions Map

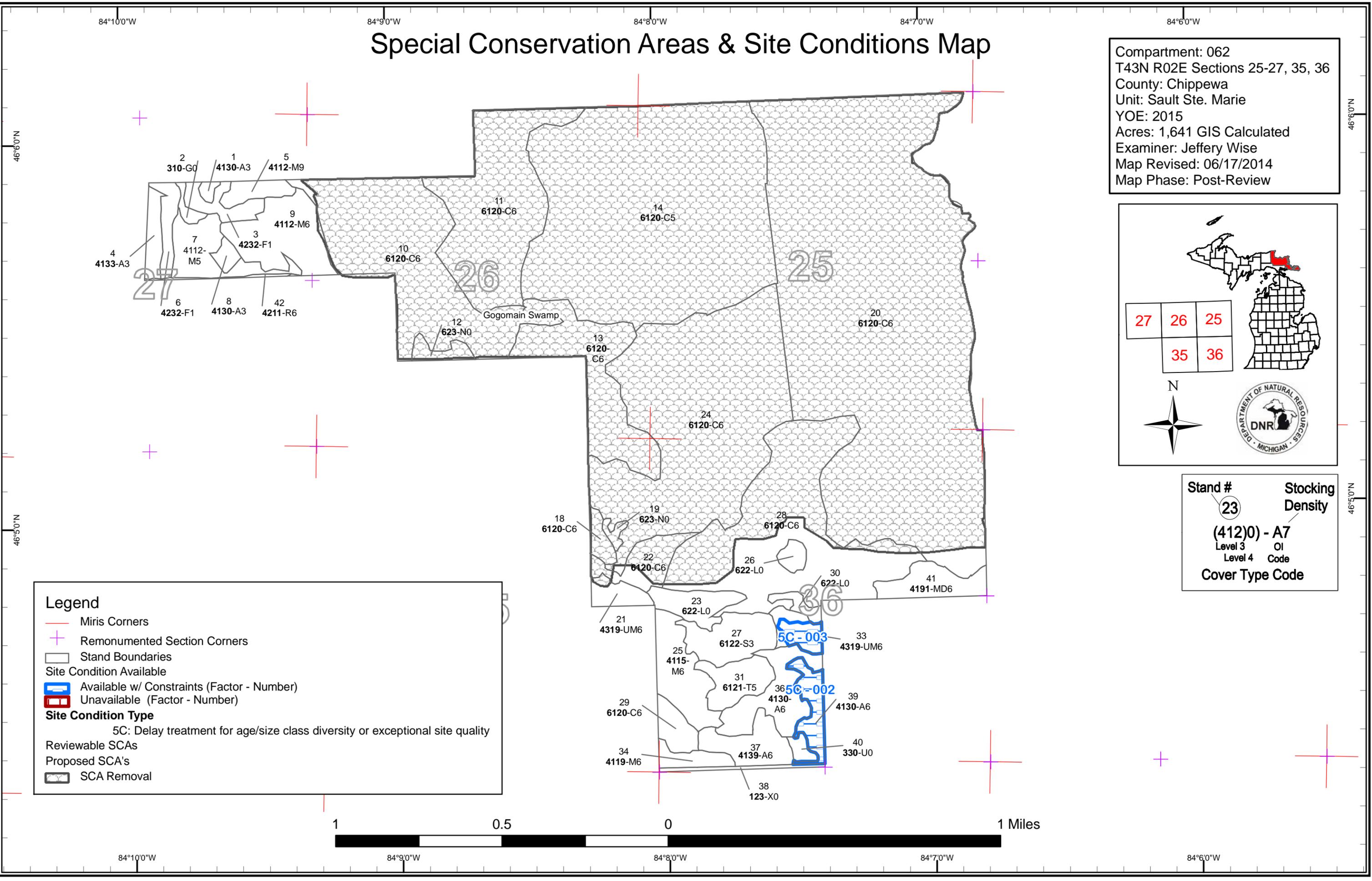
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Legend

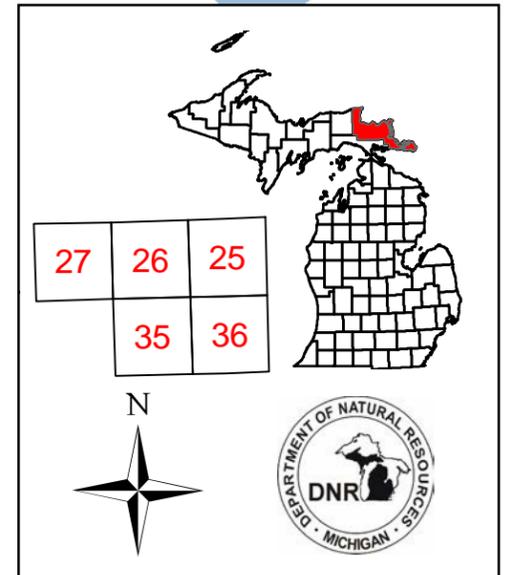
- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
- ▒ Available w/ Constraints (Factor - Number)
- ▒ Unavailable (Factor - Number)
- Site Condition Type**
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Reviewable SCAs
- Proposed SCA's
- ▒ SCA Removal

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Cover Type & Treatment Map

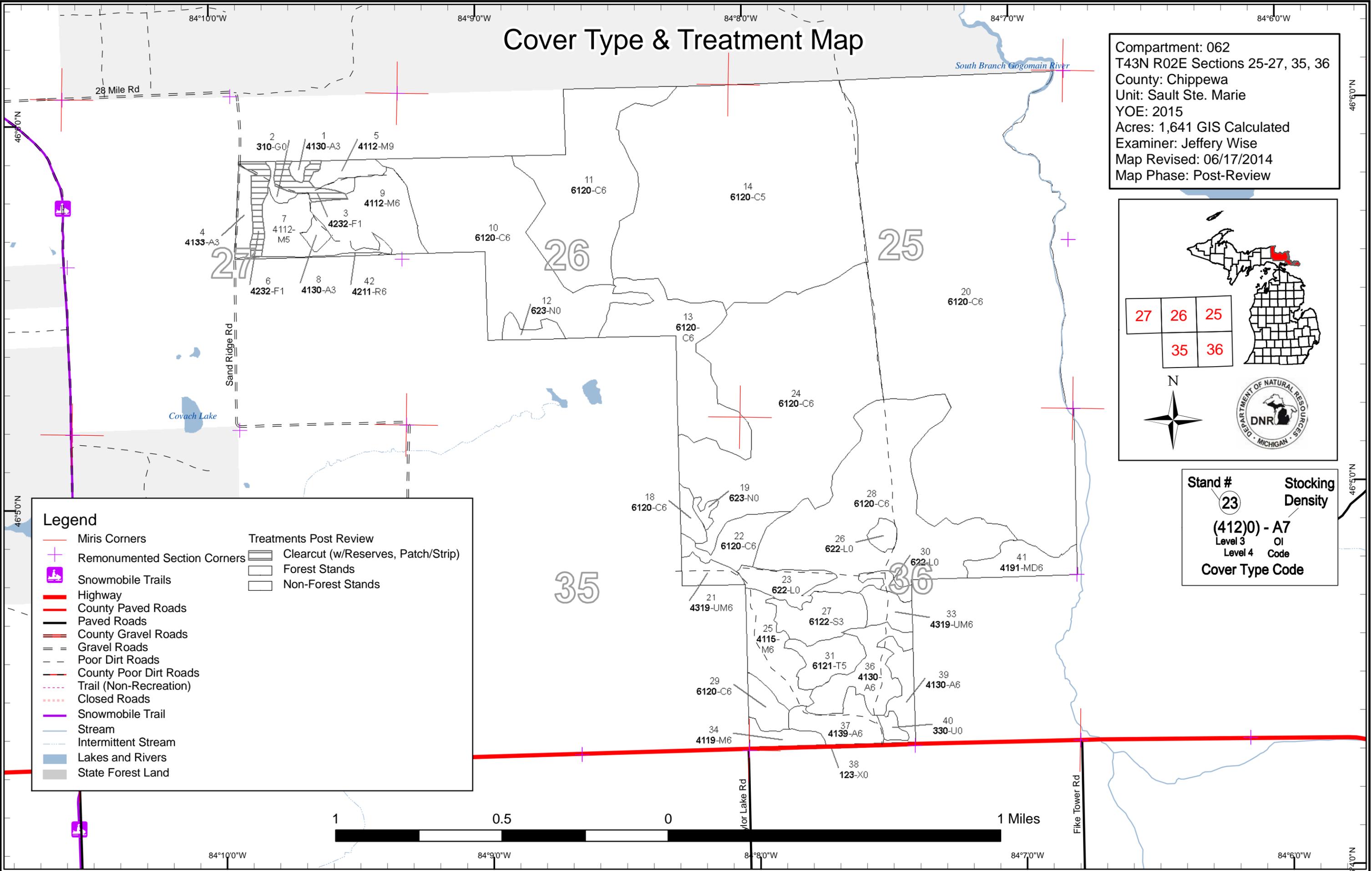
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 County: Chippewa
 Unit: Sault Ste. Marie
 YOE: 2015
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 Examiner: Jeffery Wise
 Map Revised: 06/17/2014
 Map Phase: Post-Review



Legend

	Miris Corners		Clearcut (w/Reserves, Patch/Strip)
	Remonumented Section Corners		Forest Stands
	Snowmobile Trails		Non-Forest Stands
	Highway		
	County Paved Roads		
	Paved Roads		
	County Gravel Roads		
	Gravel Roads		
	Poor Dirt Roads		
	County Poor Dirt Roads		
	Trail (Non-Recreation)		
	Closed Roads		
	Snowmobile Trail		
	Stream		
	Intermittent Stream		
	Lakes and Rivers		
	State Forest Land		

Stand #
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Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	0	11	27	0	17	0	12	0	0	0	0	0	0	0	67
Cedar	0	0	0	0	0	0	0	0	654	30	263	131	277	0	1355
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Spruce/Fir	0	0	0	0	0	21	0	0	0	0	0	0	0	0	21
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Northern Hardwood	0	0	0	0	0	8	87	0	0	0	0	0	0	0	94
Red Pine	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Tamarack	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Upland Mixed Forest	0	0	0	0	0	0	10	0	0	8	0	0	0	0	17
Upland Spruce/Fir	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	55	11	27	0	18	60	108	0	654	38	263	131	277	0	1641



Report 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2015

Compartment 062
Total Compartment Acres: 1,642

Acres by Treatment Type

Commercial Harvest - 0 Tree Planting - 0 Other - 0
Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
	#Error	#####	#Error	#####	#Error	#####	
Total	0	0	0	0	0	0	0



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3 45062003-Cut_Survey	7.4	42320 - Upland Spruce	Low Density Sapling	1		Regeneration Survey	Next Inventory Cycle (natural regen)	4130 - Aspen	Fld. Tr. Bdy.

Prescription

Specs:

Other

Comments:

Next Steps: Monitor regeneration according to work instructions.

Proposed

Start Date: 10/01/2016

6 45062006-Cut_Survey	7.9	42320 - Upland Spruce	Low Density Sapling	1		Regeneration Survey	Next Inventory Cycle (natural regen)	42320 - Upland Spruce	Fld. Tr. Bdy.
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Prescription

Specs:

Other

Comments:

Next Steps: Monitor regeneration according to work instructions.

Proposed

Start Date: 10/01/2016

**Total Treatment
Acreage Proposed: 15.3**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

Total Treatment
Acreage Proposed: 0.0

Availability for Management

Total Acres	Acres Available	Acres Not Available	Dominant Site Conditions	
			No	5C
67	67		Aspen	55 12
1354	1354		Cedar	1,354
21	21		Lowland Spruce/Fir	21
16	16		Mixed Upland Deciduous	16
94	94		Northern Hardwood	94
1	1		Red Pine	1
15	15		Tamarack	15
17	17		Upland Mixed Forest	11 6
17	17		Upland Spruce/Fir	17
1,604	1,604		Total Forested Acres	1,586 18
	100%		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
002	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12				
Comments:							
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6				
Comments:							



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
Gogomain Swamp	Other SCA		SCA Removal	1278.8
Comments Rich conifer swamp stand is not desirable to manage, but displays future old growth properties that do not meet the POG criteria at the present time.				



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.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4130 - Aspen	High Density Sapling	1.7	24		Aspen that was clear cut. Somewhat sparse stand.
42320 - Upland Spruce	Low Density Sapling	9.3	1		was white spruce plantation, now natural.
4133 - Aspen, Mixed Pine	High Density Sapling	7.7	16		NE part of stand has medium-low stocking. contains planted red pine
4112 - Maple, Beech, Cherry Association	High Density Log	7.5	55	51-80	Stand looks like it was hammered hard in the past. There is low BA of merchantable dia. Thick 1" dia understory. Poor residual. Not a real good stand yet.
42320 - Upland Spruce	Low Density Sapling	7.9	1		was white spruce plantation, now natural
4112 - Maple, Beech, Cherry Association	Medium Density Pole	20.2	64	51-80	Stand has had aspen removed approx. 10 years ago. Patches of A3 throughout.
4130 - Aspen	High Density Sapling	3.3	16		
4112 - Maple, Beech, Cherry Association	High Density Pole	34.4	67	81-110	East- Wetter ground w/ vernal ponds. knarly trees of poor quality. West- Less so
6120 - Lowland Cedar	High Density Pole	114.2	107		
6120 - Lowland Cedar	High Density Pole	92.6	107		Small diameter cedar with mix of tamarack and black spruce.
6120 - Lowland Cedar	High Density Pole	56.3	106		Mix of cedar/ spruce/ fir with r.m. on higher ground areas.
6120 - Lowland Cedar	Medium Density Pole	276.5	126		Mostly smaller cedar less than 2 sticks. Cedar regen is coming in in places. Large W.P. residual.
6120 - Lowland Cedar	High Density Pole	5.3	96		Wet ground cedar. Scattered W.P. Small R.M. along edges & scattered high ground. Poor quality.
6120 - Lowland Cedar	High Density Pole	459.6	87		Very Wet Cedar Stand - Some flooding in northern part of stand.
4319 - Mixed Upland Forest	High Density Pole	7.9	92		Mixed bag stand along rd. Poor quality R. Maple & scattered cedar. Low BA in most areas.
6120 - Lowland Cedar	High Density Pole	15.6	97		Verywet stand of cedar w/ some tamarack. Somewhat sparse is some places and thick in the center. Do not go Here!!!
6120 - Lowland Cedar	High Density Pole	194.2	87		Very Wet Cedar Stand - Some flooding in northern part of stand.

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Sault Ste. Marie Mgt. Unit

Report 8 – Forested Stands

Compartment: 062
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4115 - Y.Birch, Hemlock NH	High Density Pole	25.1	67	51-80	Some small aspen inclusions within stand. look at marking in 10-20 years. Good road through stand.
27	6122 - Black Spruce	High Density Sapling	21.0	50		Wet Black Spruce stand- Some larger trees along perimeter (4-6") but overall sapling stand
28	6120 - Lowland Cedar	High Density Pole	131.5	114		dense cedar w/ mix of tamarack, spruce, w. birch, & balsm. Not much understory, small dia. Small amount of W.P. in this stand.
29	6120 - Lowland Cedar	High Density Pole	8.9	94		Stand of low ground dense cedar.
31	6121 - Tamarack	Medium Density Pole	15.1	50		Drainage area with mix of Tamarack, spruce, and balsm. Very wet stand, small dia & heights.
33	4319 - Mixed Upland Forest	High Density Pole	9.5	67		Stand of healthy aspen with conifer mix. Hold for 10 years and consider harvest then.
34	4119 - Mixed Northern Hardwoods	High Density Pole	7.1	67	51-80	Stand of relatively small dia. hardwoods. Predominantly R.M. Some conifer scattered throughout and along edges.
36	4130 - Aspen	High Density Pole	25.1	23		Ok looking Aspen regen.
37	4139 - Aspen, Mixed Deciduous	High Density Pole	17.1	45		Small aspen w/ maple and birch scattered throughout.
39	4130 - Aspen	High Density Pole	11.7	69		Look at harvest in 10-20 years. Pretty healthy now, decent access.
41	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	16.3	57	81-110	Stand of good quality aspen mixed with some R.M. and other. Hold 10 years and consider clear cut to regenerate aspen.
42	42110 - Planted Red Pine	High Density Pole	1.3	46	1-50	Nice healthy stand, trees have good height.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	310 - Herbaceous Openland	2.6			
12	623 - Emergent Wetland	5.4			
19	623 - Emergent Wetland	2.3			
23	622 - Lowland Shrub	13.2			
26	622 - Lowland Shrub	4.0			
30	622 - Lowland Shrub	3.7			
38	123 - Other High Intensity Urban	3.2			
40	330 - Low-Density Trees	3.0			