



**Sault Forest Management Unit  
Compartment Review Presentation  
Compartment #38      Entry Year: 2013  
Compartment Acreage: 2,052      County: Mackinac**

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**Revision Date:** June 22, 2011

**Stand Examiner:** Jason Caron

**Legal Description:** T44N R1W Sections 4, 5 & 9      Pickford Township  
T45N R1W Sections 32 & 33      Kinross Township

**RMU:** Kinchloe Highlands

**Management Goals:** Compartment 38 has been a multiple use compartment. Snowmobiling ORV use, X-country skiing, gravel extraction, timber harvesting, and dispersed outdoor recreation all have a place in this compartment.

**Soil and Topography:** Kalkaska-Rubicon associates make up the soils in this compartment. These soils are generally very well to excessively drained. The topography is quite flat with the only major relief existing at or near the gravel pit in sections 33 and 4.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This area is blocked in well enough to make management relatively simple. The north is bounded by M-80, the east by the Wilson Road and other State of Michigan ownership, the south by private and the west by prisons and other well defined development such as vehicle testing facilities and the Chippewa County International Airport. Some State of Michigan holdings also border in the southwest.

**Unique, Natural Features:** This compartment is unique in that it is our only compartment that is virtually 100% upland.

**Archeological, Historical, and Cultural Features:** None known at this time but DNR and contract workers are instructed to be on the lookout for anything that is obviously man-made or looks out of the ordinary.

**Special Management Designations or Considerations:** Some areas in the south are under use permit for ground water monitoring wells. These wells monitor levels of chemicals left over from the days when Kincheloe AFB did their aircraft fire suppression training immediately adjacent to the compartment.

**Watershed and Fisheries Considerations:** This compartment is adjacent to Dukes Lake, a trout lake with Type A trout lake regulations. No treatments are scheduled near this waterbody, so there are no Fisheries concerns at this time.

**Wildlife Habitat Considerations:** This compartment is located east of the Chippewa County International Airport in Kinross. The compartment lies within the Rudyard subsection Niagaran Escarpment and Lake Plain subsection, and is included in the conifer and hardwood-conifer-dominated uplands and wetlands portion described therein. Sandy soils dominate, producing conditions suitable for the pine, aspen and birch, oak, and hardwoods found here. A number of red pine plantation stands are scattered throughout the compartment. Remaining areas have a mix of species mentioned. Past treatments have allowed maintenance of age class diversity in aspen stands, oak (both saplings and older trees) to be released, and enhancement of

diversity in hardwood stands. Wildlife species use of the compartment includes white-tailed deer, black bear, coyote, ruffed grouse, turkey, northern goshawks, red-breasted nuthatches, thrushes and numerous other neotropical migratory birds.

Future treatments will provide similar benefits for wildlife. Deciduous species will be left in most red pine plantations to diversify these stands. Stands containing oak will be managed to encourage growth of remaining oak, which will provide a hard mast source important for numerous wildlife species. Early successional species will be managed to maintain them on the landscape. Management will benefit deer, bear, and numerous other wildlife including most of those mentioned above.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington Formation and the Utica Shale subcrop below the glacial drift. The Stonington could be used for stone. Gravel pits are located in the compartment and to the north of the compartment. There should be good gravel potential. There is no economic oil and gas production in the UP.

**Vehicle Access:** Very good to excellent with numerous main roads and side roads within the compartment. Due to the ease of access and close proximity to Kinross dumping is a continuous problem with mostly household trash and tires being disposed of.

**Survey Needs:** None needed.

**Recreational Facilities and Opportunities:** This is a very popular compartment for recreational activities. An ORV trailhead is located on the Wilson Road with trails leaving in several directions. Part of the Pine Bowl X-country Ski Trail is located south of the gravel pit and snowmobilers have a trail on the south boundary and across the north. Hunting is popular because of the ease of access. There is berry picking in season.

**Fire Protection:** Fire potential in this compartment is greater due to more recreational users, drier soils, and pine timber types. Access is good for fire equipment with numerous access roads throughout.

#### **Additional Compartment Information:**

- **The following reports from the Inventory are attached:**
  - ◆ **Total Acres by Cover Type and Age Class**
  - ◆ **Proposed Treatment Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  - ◆ **Stand Details (Forested and Nonforested)**
  - ◆ **Dedicated and Proposed Special Conservation Areas**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand boundaries, cover types, and numbers**
  - ◆ **Proposed treatments**
  - ◆ **Details on the road access system**

# CoverType & Treatment Map

Compartment 038  
 T45N, R01W, Sec. 32, 33  
 T44N, R01W, Sec. 4, 5, 8, 9  
 County: Chippewa  
 Unit: Sault Ste Marie  
 YOE: 2013  
 Acres: 2,052 GIS Calculated  
 Stand Examiner: Jason Caron  
 Map Revised: 8/09/2011  
 Map Phase: Pre-Review

32	33
5	4
8	9

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

**Legend**

- Miris Corners
- Remonumented Section Corners
- Survey Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Motorcycle (DNR Sticker)
- Motorcycle (SOS License)
- ORV Trail
- ORV Route
- Snowmobile Trail
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

**Planned Regeneration**

- Natural
- Planted

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Planting (tree species)

**Forest Stands**

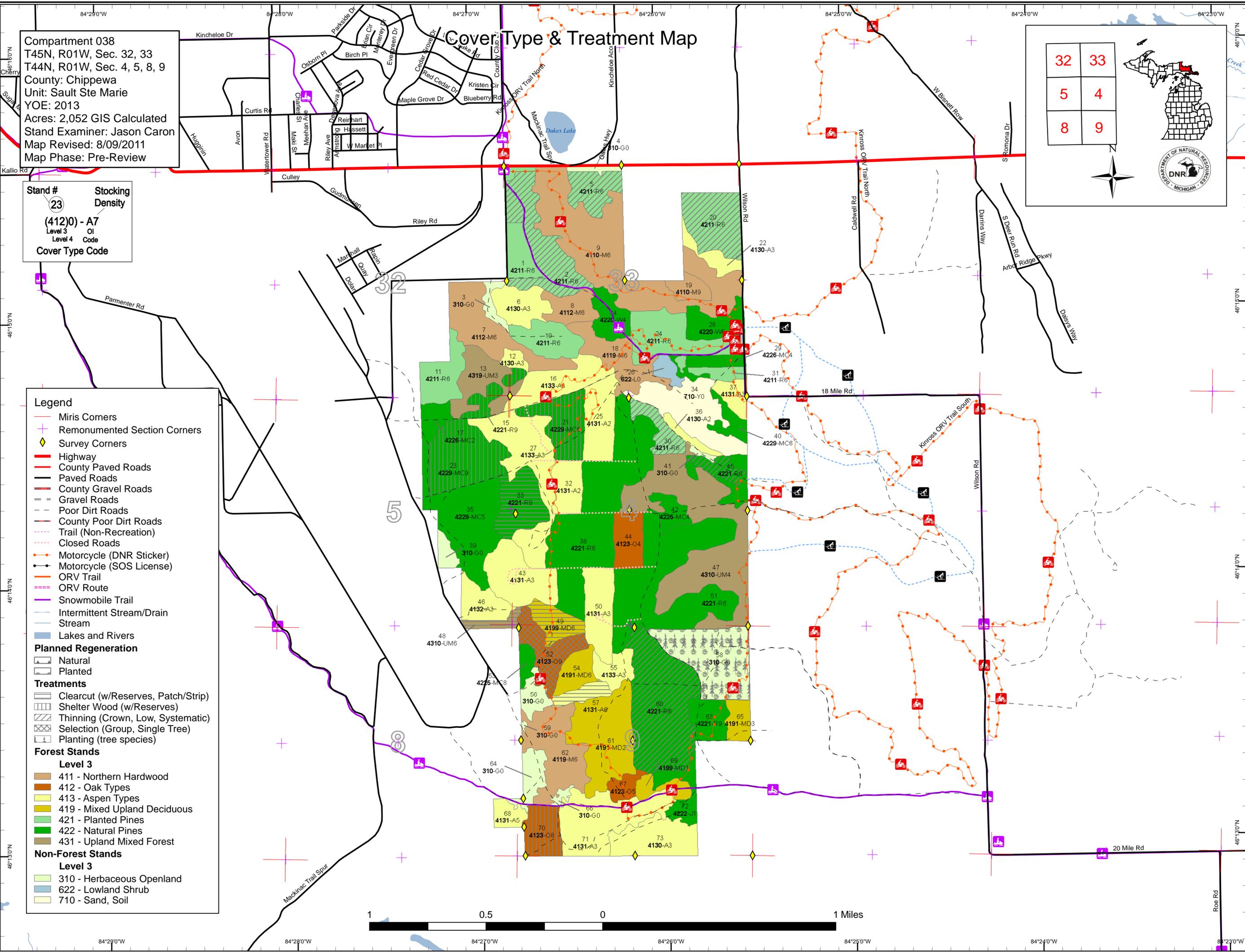
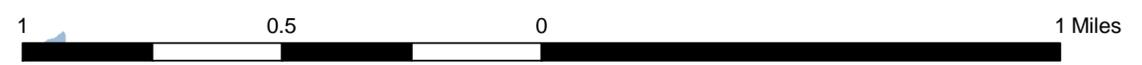
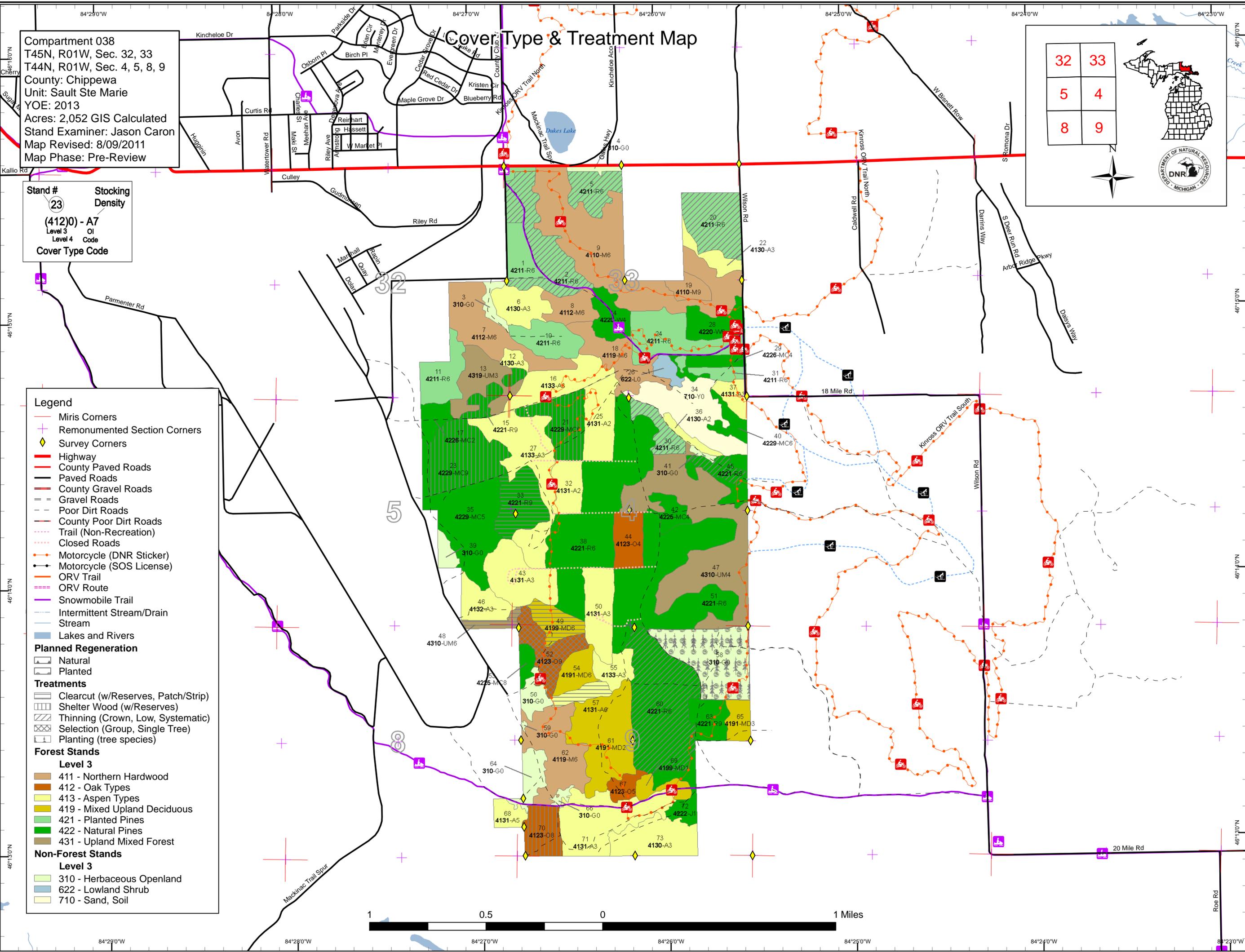
**Level 3**

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest

**Non-Forest Stands**

**Level 3**

- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 710 - Sand, Soil

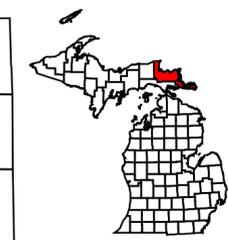


# Stand Boundary Map

Compartment 038  
 T45N, R01W, Sec. 32, 33  
 T44N, R01W, Sec. 4, 5, 8, 9  
 County: Chippewa  
 Unit: Sault Ste Marie  
 YOE: 2013  
 Acres: 2,052 GIS Calculated  
 Stand Examiner: Jason Caron  
 Map Revised: 8/09/2011  
 Map Phase: Pre-Review

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

32	33
5	4
8	9




**Legend**

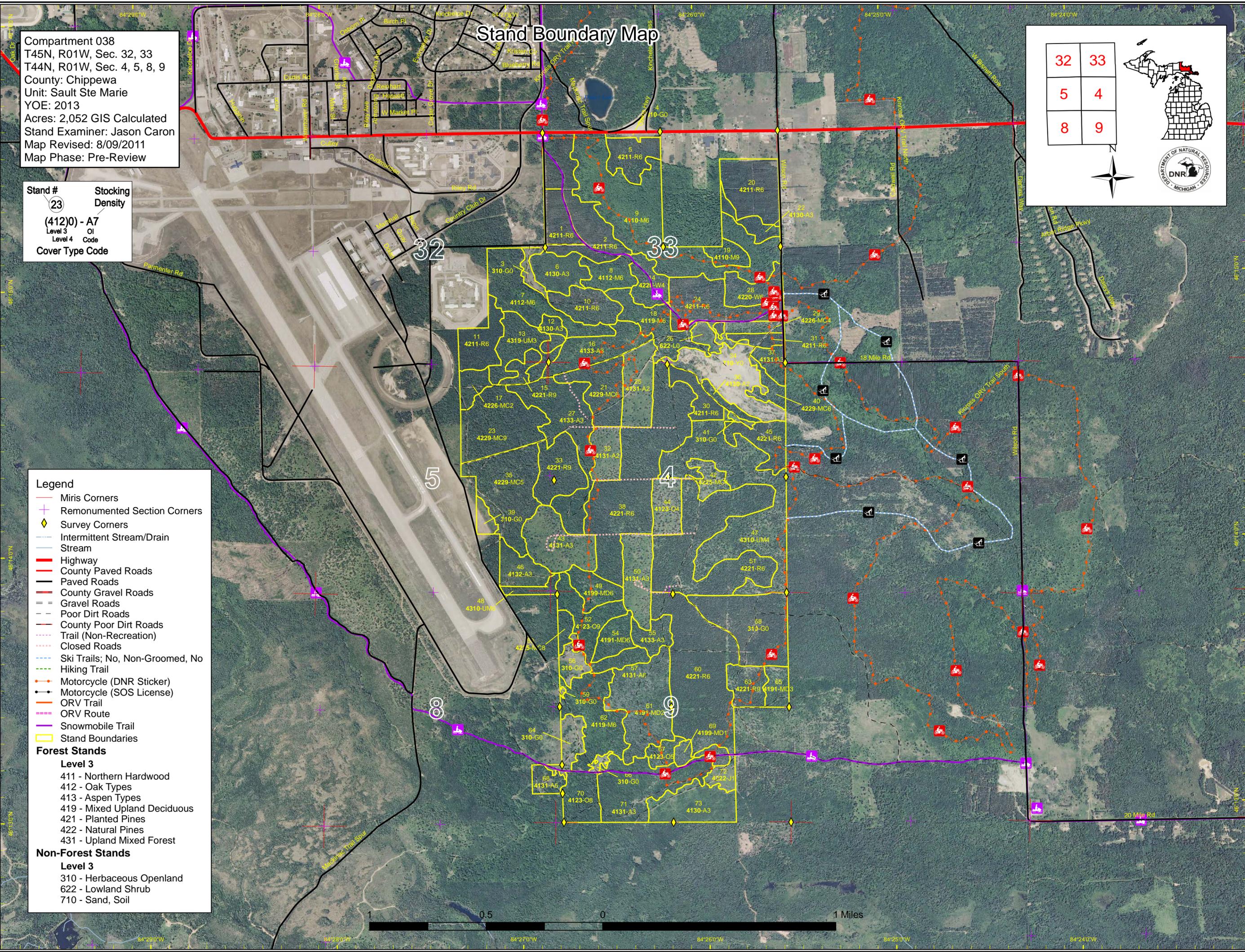
- Miris Corners
- Remonumented Section Corners
- Survey Corners
- Intermittent Stream/Drain
- Stream
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Ski Trails; No, Non-Groomed, No
- Hiking Trail
- Motorcycle (DNR Sticker)
- Motorcycle (SOS License)
- ORV Trail
- ORV Route
- Snowmobile Trail
- Stand Boundaries

**Forest Stands**

- Level 3
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
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**Non-Forest Stands**

- Level 3
- 310 - Herbaceous Openland
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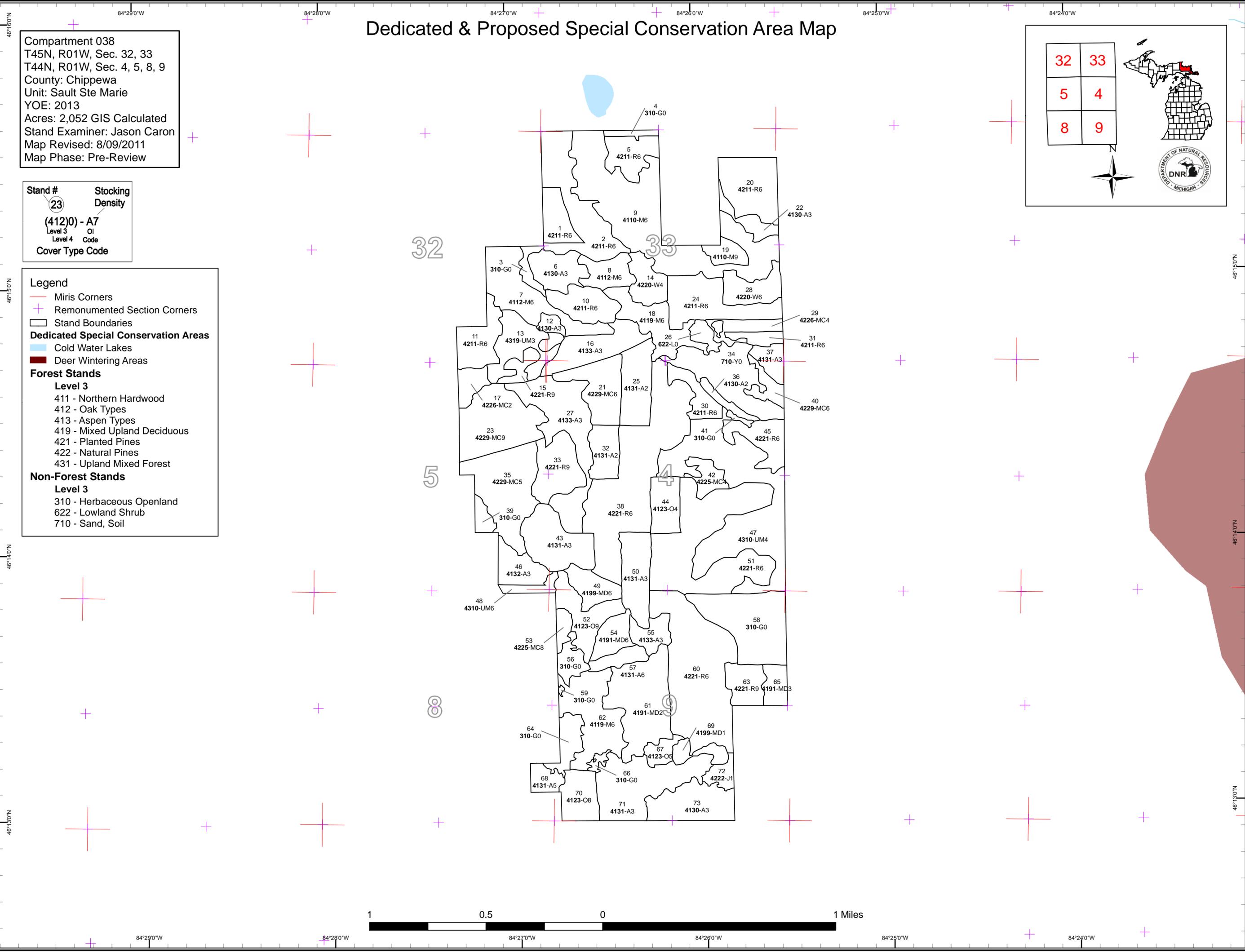
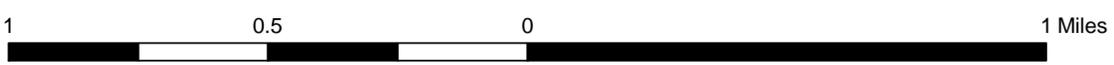
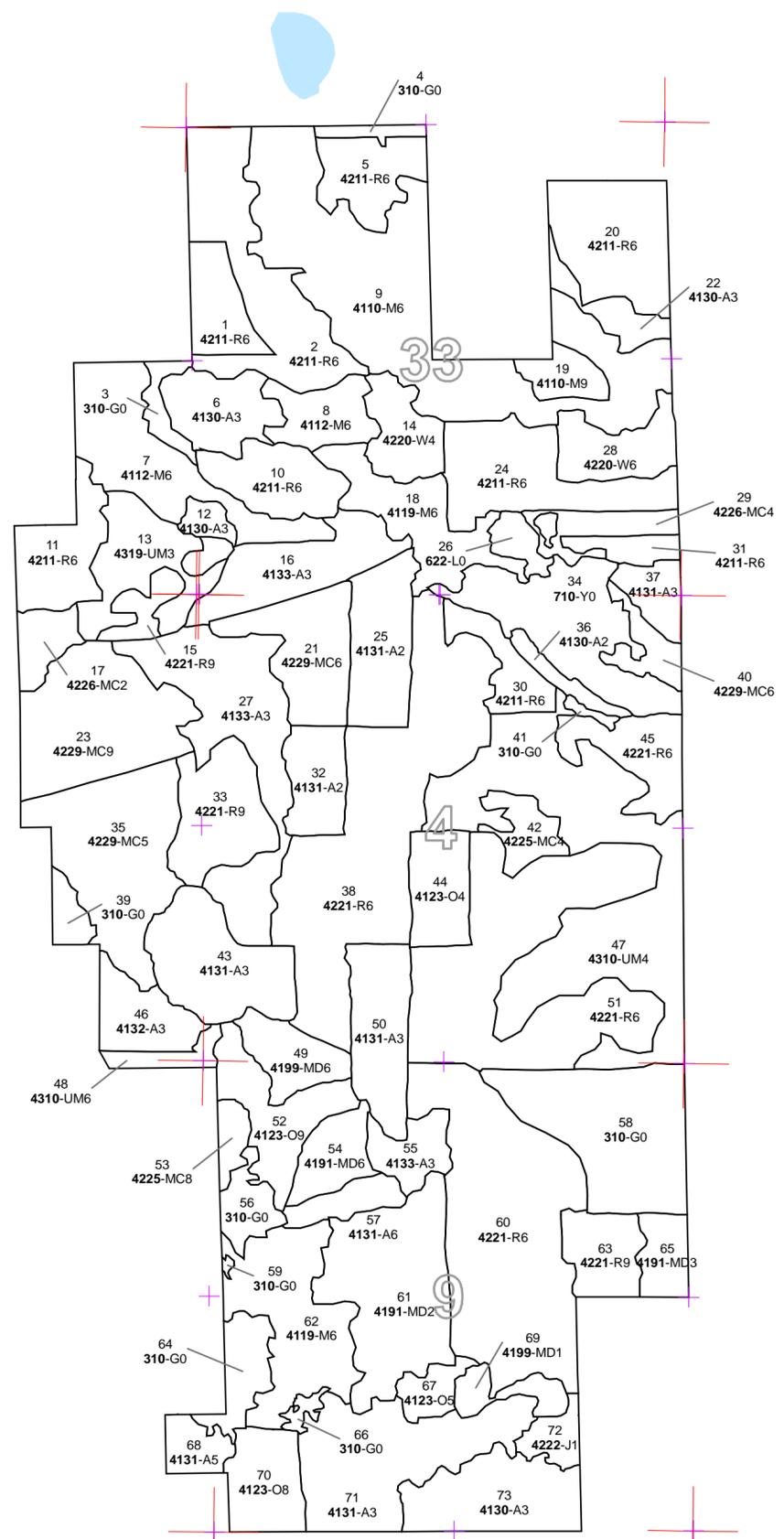
# Dedicated & Proposed Special Conservation Area Map

Compartment 038  
 T45N, R01W, Sec. 32, 33  
 T44N, R01W, Sec. 4, 5, 8, 9  
 County: Chippewa  
 Unit: Sault Ste Marie  
 YOE: 2013  
 Acres: 2,052 GIS Calculated  
 Stand Examiner: Jason Caron  
 Map Revised: 8/09/2011  
 Map Phase: Pre-Review

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

- Legend**
- Miris Corners
  - + Remonumented Section Corners
  - Stand Boundaries
  - Dedicated Special Conservation Areas**
  - Cold Water Lakes
  - Deer Wintering Areas
  - Forest Stands**
  - Level 3**
  - 411 - Northern Hardwood
  - 412 - Oak Types
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 421 - Planted Pines
  - 422 - Natural Pines
  - 431 - Upland Mixed Forest
  - Non-Forest Stands**
  - Level 3**
  - 310 - Herbaceous Openland
  - 622 - Lowland Shrub
  - 710 - Sand, Soil

32	33
5	4
8	9



**Table 1 – Total Acres by Cover Type and Age Class**



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Unretn Age
Aspen	0	150	61	151	31	0	0	10	0	0	0	0	0	0	0	403
Herbaceous Openland	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
Jack Pine	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	0	10	70	15	0	0	17	0	0	0	0	0	0	0	112
Natural Mixed Pines	0	0	0	11	0	68	49	55	0	11	0	0	0	0	0	194
Northern Hardwood	0	0	0	0	0	0	0	264	0	0	0	10	0	0	0	275
Oak	0	0	0	0	0	0	20	8	27	21	0	0	0	0	0	77
Red Pine	0	0	0	24	0	21	422	114	60	0	0	0	0	0	0	641
Sand, Soil	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Upland Mixed Forest	0	0	0	0	30	0	0	117	0	0	0	0	0	0	0	147
White Pine	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	38
<b>Total</b>	<b>158</b>	<b>158</b>	<b>71</b>	<b>256</b>	<b>76</b>	<b>89</b>	<b>529</b>	<b>585</b>	<b>87</b>	<b>33</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2052</b>



## Table 2 – Proposed Treatment Summaries

**Sault Ste. Marie Mgt. Unit**  
**Year of Entry 2013**

**Compartment 038**  
**Total Compartment Acres: 2052**

### Acres by Treatment Type

Commercial Harvest - 432	Site Prep - 0	Tree Planting - 58	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen</b>	10	0	0	0	0	0	0	<b>10</b>
<b>Mixed Upland Deciduous</b>	17	0	0	0	0	0	0	<b>17</b>
<b>Natural Mixed Pines</b>	0	0	0	82	0	0	0	<b>82</b>
<b>Oak</b>	0	27	0	21	0	0	0	<b>49</b>
<b>Red Pine</b>	31	0	0	12	226	0	0	<b>268</b>
<b>Upland Mixed Forest</b>	7	0	0	0	0	0	0	<b>7</b>
<b>Total</b>	<b>64</b>	<b>27</b>	<b>0</b>	<b>115</b>	<b>226</b>	<b>0</b>	<b>0</b>	<b>432</b>



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	45038002-Cut	49.6	42110 - Planted Red Pine	High Density Pole	51	Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Thin to around 120 Basal Area. Leave under-represented species within the stand where present such as oak, maple, aspen, etc... <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
5	45038005-Cut	21.2	42110 - Planted Red Pine	High Density Pole	49	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Selectively mark red pine to 120 sq. ft. Basal area. If trees are not in the way for equipment do not mark under-represented species such as oak, maple, and aspen if they exist. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
15	45038015-Cut	11.7	42210 - Natural Red Pine	High Density Log	73	Harvest	Shelterwood	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription:</u> Perform a shelterwood harvest on the stand. Selectively mark red pine within stand but clear cut all other species. Designate within timber sale <u>Specs:</u> specs to leave a representation of oak and white pine within the stand. Residual BA should range between 20-50. A higher BA may exist within red pine areas. <u>Other</u> <u>Comments:</u> <u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, oak, paper and <u>Steps:</u> yellow birch, basswood, aspen, pine, and ironwood.									
20	45038020-Cut	39.0	42110 - Planted Red Pine	High Density Pole	51	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Selectively mark Red Pine to 120 sq. ft. basal area. If trees are not in the way for equipment do not mark under-represented species such as <u>Specs:</u> oak, maple, and aspen if they exist. <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
21	45038021-Cut	31.3	42290 - Natural Mixed Pine	High Density Pole	57	Harvest	Shelterwood	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription:</u> Perform a shelterwood harvest. Selectively mark red pine within stand but clear cut all other species. Designate within timber sale specs to leave <u>Specs:</u> a representation of oak and white pine within the stand. Residual BA should be between 20-50. A higher BA may exist within red pine areas. <u>Other</u> <u>Comments:</u> <u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow <u>Steps:</u> birch, basswood, aspen, pine and ironwood.									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	45038023-Cut	50.9	42290 - Natural Mixed Pine	High Density Log	66	Harvest	Shelterwood	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Perform a shelterwood harvest. Selectively mark red pine within stand but clear cut all other species. Designate within timber sale specs to leave a representation of oak and white pine within the stand. Residual BA should range between 20-50. A higher BA may exist within red pine areas of the stand.

Other  
Comments:

Next  
Steps: Acceptable regeneration includes oak, pine, spruce, fir, aspen, maple, and birch. Perform a regen survey per work instructions.

30	45038030-Cut	14.5	42110 - Planted Red Pine	High Density Pole	50	Harvest	Systematic Thinning	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Remove every third row of red pine within stand.

Specs:

Other  
Comments:

Next  
Steps:

33	45038033-Cut	30.7	42210 - Natural Red Pine	High Density Log	71	Harvest	Clearcut	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Clearcut stand with no retention of live trees except for witness trees. Standing trees within the stand after harvest create a hazard for aerial spraying of the stand for release and pest management.

Other  
Comments: Attach FTP to timber sale proposal.

Next  
Steps: After harvest treatment is completed, the stand may be prescribed burned if necessary for site prep depending on amount of slash left on site. Trenching and hand planting of red pine seedlings to acceptable regeneration levels will need to be completed within 2 years of the Timber Cutting Report date. After establishment of red pine regeneration, regeneration surveys need to be scheduled for 1 year and 3 years for monitoring of regeneration. Release as necessary determined by TMS.

45	45038045-Cut	10.4	42210 - Natural Red Pine	High Density Pole	50	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Perform a third row thin on red pine stand.

Specs:

Other  
Comments:

Next  
Steps:

48	45038048-Cut	6.7	4310 - Pine, Oak Mix	High Density Pole	60	Harvest	Clearcut with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Retain large white pine and a few oak if it exists within the stand.

Specs:

Other  
Comments:

Next  
Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and pine.



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
49	45038049-Cut	16.8	4199 - Other Mixed Upland Deciduous	High Density Pole	68	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Clearcut with reserves. Retain under-represented trees within the stand such as oak and pine.

Specs:

Other

Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and pine.

52	45038052-Cut	27.3	4123 - Red Oak	High Density Log	75	Harvest	Single Tree Selection	4123 - Red Oak	Cmpt. Review Proposal
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Prescription Mark red oak within the stand to create some canopy gaps. Mark down to 60-70 sq. ft. basal area. Target poor quality and dying trees. Mark some maple as well within stand.

Specs:

Other

Comments:

Next Steps: After harvest is completed perform an Rx burn within the understory of stand in an attempt to kill some of the ironwood regeneration and allow oak and maple regeneration to become established.  
Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, oak, paper and yellow birch, basswood, aspen and ironwood.

57	45038057-Cut	9.9	4131 - Aspen, Oak	High Density Pole	60	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Do not cut oak and pine.

Specs:

Other

Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, basswood, aspen and ironwood.

60	45038060-Cut	91.0	42210 - Natural Red Pine	High Density Pole	51	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Perform a third row thin on this red pine stand. Within fire lanes cut aspen and birch (if it exists) to promote regeneration.

Specs:

Other

Comments:

Next

Steps:

70	45038070-Cut	21.3	4123 - Red Oak	Medium Density Log	80	Harvest	Shelterwood	4123 - Red Oak	Cmpt. Review Proposal
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Prescription Perform a shelterwood on the stand. Leave oak that looks healthy. Also leave a representation of maple within the stand. Residual BA should range between 20-50.

Specs:

Other

Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, oak, paper and yellow birch, basswood, aspen and ironwood.

**Table 3 -- Treatments Prescribed  
with No Limiting Factor**

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	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
58	NF_45038058-Plant	58.1	Non-Forested		0	Tree Planting	Hand Plant	42120 - Planted Jack Pine	Cmpt. Review Proposal

Prescription: Trenching and hand planting of jack pine seedlings to acceptable regeneration levels will need to be completed within 2 years of the Timber  
Specs: Cutting Report date. After establishment of jack pine regeneration, regeneration surveys need to be scheduled for 1 year and 3 years for monitoring of regeneration.

OtherComments:NextSteps:


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**Total Treatment  
Acreage Proposed: 490.3**

**Table 4 -- Treatments Prescribed with a Limiting Factor**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

**Total Treatment Acreage Proposed: 0**

**Out of YOE -- Treatments  
Prescribed with No Limiting Factor**

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
<b>45158_OutOfYOE-Cut</b>	2.5				Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some larger canopy gaps may be desirable to enhance the advanced regeneration present. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, black spruce and white pine.								
<b>NF_45134015-NonFor</b>	4.7	Unspecified		0	Non-Forest Management	Patch or Strip Clearcut	31021 - Cool Season Grass	Cmpt. Review Proposal
<u>Prescription:</u> Treat with C149 s 63. Opening maintenance removing jack pine seedlings and saplings. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u>								
<b>Total Treatment Acreage Proposed:</b>		<b>7.2</b>						



Stand	Sault Ste. Marie Mgt. Unit			5 – Forested Stands		Compartment: 038 Year of Entry: 2013	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	42110 - Planted Red Pine	High Density Pole	17.3	51	141-170	Stand thinned in 2004. avg dia. is only 8". crowns look good. thin in next yoe.	
2	42110 - Planted Red Pine	High Density Pole	52.7	51	141-170	Last thinned in 1995. Needs another thinning.	
5	42110 - Planted Red Pine	High Density Pole	21.2	49	141-170	Last thinned in 1995. Stand needs a thinning.	
6	4130 - Aspen	High Density Sapling	21.9	23		Aspen is poor quality probably due to the sandy soil...A lot of stems have already died off. Sugar maple is very thick in the understory.	
7	4112 - Maple, Beech, Cherry Association	High Density Pole	44.6	60	51-80	Stand varies in quality and composition from North to South. Overall stand quality is poorer with small diameter hardwood and low basal area. A good part of the stand is on a pretty good slope.	
8	4112 - Maple, Beech, Cherry Association	High Density Pole	17.2	60	51-80	Stand of young pole sized hardwood. A mix of both sugar maple and red maple. Poorer quality hardwood.	
9	4110 - Sugar Maple Association	High Density Pole	123.9	60	51-80	Young, small diameter hardwood. Nowhere near a thinning.	
10	42110 - Planted Red Pine	High Density Pole	23.5	50	111-140	Stand thinned in 2005. Stand in good shape, thin in next yoe.	
11	42110 - Planted Red Pine	High Density Pole	24.2	23	51-80	Plantation is doing good for being 23 yrs old. Most stems have one merchantable stick in them and the bottom limbs are dying off.	
12	4130 - Aspen	High Density Sapling	4.9	31		Nice big tooth aspen regeneration within the stand. OI notes say stand was cut in 1980.	
13	4319 - Mixed Upland Forest	High Density Sapling	29.6	31		Old seed tree cut (cut in 1980) with clumps of large white pine left here and there. Regeneration is nice and consists of paper birch, aspen and maple.	
14	42200 - Natural White Pine	Low Density Pole	18.0	50		Budworm Buffet sale (014-10-01). Stand was cut in May 2011. White pine was left as residual. Stand will regenerate back to a mix of maple, aspen, and oak.	
15	42210 - Natural Red Pine	High Density Log	11.7	73	81-110	Stand contains large diameter red and white pine of good quality.	
16	4133 - Aspen, Mixed Pine	High Density Sapling	32.0	18		Cut in 1993. Stand consists of a shelterwood. Scattered red pine, white pine, and sapling sized aspen, red maple, and oak. Stand is filling in nicely. Some of the oak regeneration is very nice.	
17	42260 - Natural Pine, Mixed Deciduous	Medium Density	10.6	23		Big tooth aspen within the stand is falling out most likely due to droughty soils. Jack pine, white pine are doing well w/in stand.	

S t a n d	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 038	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
18	4119 - Mixed Northern Hardwoods	High Density Pole	31.7	62	1-50	Numerous species all of poorer quality. Hardwood is small diameter.	
19	4110 - Sugar Maple Association	High Density Log	10.0	100	51-80	Stand of decent quality hardwood. Basal area is low, hold for 10 yrs. Some nice pockets of regeneration within the canopy openings.	
20	42110 - Planted Red Pine	High Density Pole	39.0	51	171-200	Last thinned in 1995. Needs thinning again.	
21	42290 - Natural Mixed Pine	High Density Pole	31.3	57		Stand is a mix of pine and deciduous. The only good quality species is the red pine. Aspen and paper birch is very poor quality, Cut to promote regeneration.	
22	4130 - Aspen	High Density Sapling	10.6	34		Thick stand of aspen poles with a few scattered oak and sugar maple here and there.	
23	42290 - Natural Mixed Pine	High Density Log	54.6	66		Stand contains large clumps of log sized red pine amongst areas of poor quality white pine, red maple, oak, and paper birch... Red pine is very nice quality.	
24	42110 - Planted Red Pine	High Density Pole	41.8	51	81-110	Stand third row thinned in 2005. Stand is in good shape, thin in next yoe.	
25	4131 - Aspen, Oak	Medium Density	29.2	6		Regeneration is mostly big tooth aspen of poorer quality due to sandy soils. Stand consists of patchy regeneration with a sapling oak or red maple here and there. I don't see any pine seeding in yet. Oak saplings are being browsed by deer quite extensively.	
27	4133 - Aspen, Mixed Pine	High Density Sapling	59.7	28		Areas that were totally clearcut came back to nice aspen regeneration. Areas where pine was left came back to a mix of maple and aspen. Overall stand is healthy and looks good. Northwest corner of stand contains some very nice sugar maple within the understory.	
28	42200 - Natural White Pine	High Density Pole	20.0	50		Budworm Buffet (014-10-01). Stand was cut in May 2011. Residual white pine and red oak left within the stand. Stand will regenerate back to a mix of maple, aspen, and red oak.	
29	42260 - Natural Pine, Mixed Deciduous	Low Density Pole	11.9	50		An old opening that is slowly filling in with a mix of conifer and deciduous.	
30	42110 - Planted Red Pine	High Density Pole	14.5	50	111-140	Stand is in need of a third row thinning. Smaller diameter red pine.	
31	42110 - Planted Red Pine	High Density Pole	8.9	51	141-170	Stand third row thinned in 2005. Stand is in good shape, thin in next yoe.	
32	4131 - Aspen, Oak	Medium Density	18.2	6		Big tooth aspen regeneration is nice within the stand. Not a very dense stand but it should fill in with time.	





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	42210 - Natural Red Pine	High Density Log	30.7	71	111-140	Perform a final harvest on this red pine. Burn and re-plant to red pine.
35	42290 - Natural Mixed Pine	Medium Density Pole	57.9	45		Stand is poorer quality with a mix of small diameter white pine and jack pine.
36	4130 - Aspen	Medium Density	6.1	33		Stand that grew from the topsoil piles from when the gravel pit was put in. Multi-aged stand with both old clumps and young clumps of aspen. Stand is poor quality with a lot of trees dying and falling over.
37	4131 - Aspen, Oak	High Density Sapling	10.6	17		Stand contains nice regeneration of a mix of species.
38	42210 - Natural Red Pine	High Density Pole	113.6	62	81-110	Stand of mixed species. Red pine is good quality. Let adjacent clearcuts green up more and perform a shelterwood on this stand in next YOE.
40	42290 - Natural Mixed Pine	High Density Pole	9.7	48		Small strip of pine mixed with a few aspen and paper birch here and there. Stand slopes down towards gravel pit.
42	42250 - Pine, Oak	Low Density Pole	11.4	86		Very poor soil and the trees show it. Trees are stunted and very low density, reindeer moss throughout the stand.
43	4131 - Aspen, Oak	High Density Sapling	38.6	6		Cut in 2005. Bigtooth aspen regeneration is nice within the stand. White birch has stump sprouted very nicely!
44	4123 - Red Oak	Low Density Pole	19.6	58		Stand was clearcut in 2005 but only has scattered regeneration in it thusfar. I think by next YOE it will be filled in better. Red oak saplings are present but heavily browsed by deer.
45	42210 - Natural Red Pine	High Density Pole	22.0	50	111-140	Plantation is smaller in diameter but needs a third row thinning. Rows are not straight whatsoever. Adjust treatment boundary on the North East corner and the South part to exclude those areas.
46	4132 - Aspen, Jack Pine	High Density Sapling	18.5	17		Stand contains a mix of aspen and conifer. Soils are droughty. Some of the aspen is falling out due to low moisture. Aspen regeneration is nicer in North half of stand. OI notes say the stand was previously jack pine.
47	4310 - Pine, Oak Mix	Low Density Pole	110.5	60		Very xeric site. Overstory trees are stunted and poor quality. Alot of dead oak in stand. Bigtooth aspen regeneration is nice in the majority of stand.
48	4310 - Pine, Oak Mix	High Density Pole	6.7	60		Stand consists of a strip of property that was not cut due to poor survey. Stand contains a mix of species. Look at performing a shelterwood on the stand to promote regeneration.
49	4199 - Other Mixed Upland Deciduous	High Density Pole	16.8	68		Stand of paper birch with a mix of other species. Stand is in decent shape, birch is declining. Cut stand to promote regeneration.

S t a n d	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 038	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
50	4131 - Aspen, Oak	High Density Sapling	29.6	6			Bigtooth aspen regeneration is nice within the stand.
51	42210 - Natural Red Pine	High Density Pole	97.9	55	81-110		Stand of mixed pine is decent quality but is growing on a poor site. Trees are stubby. Do not manage this YOE.
52	4123 - Red Oak	High Density Log	27.3	75	81-110		Stand of older oak. OI notes say stand was last thinned in 1983. Basal area is low. Oak decline is present within stand. Ironwood regeneration is thick in the understory of stand which makes for no oak regeneration.
53	42250 - Pine, Oak	Medium Density Log	6.3	50			Old seed tree cut from 1983, looks like all pine and oak were left, what remains is thick aspen and maple regeneration underneath the residual. Manage the aspen and maple.
54	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	15.1	35	1-50		Stand with a mix of younger trees. An older strip of paper birch along the North end of stand. Oak regeneration in spots is very nice.
55	4133 - Aspen, Mixed Pine	High Density Sapling	13.3	20			Old clearcut. Red pine and white pine were left. Aspen regeneration is nice.
57	4131 - Aspen, Oak	High Density Pole	9.9	60			Stand of big tooth aspen mixed with oak, red maple and poorer quality paper birch. Possibly combine with another treatment to encourage regeneration.
60	42210 - Natural Red Pine	High Density Pole	104.3	51	111-140		Stand needs a third row thinning. Cut aspen, white birch and red maple out of fire lanes to promote regeneration. Do not cut oak.
61	4191 - Mixed Upland Deciduous with Conifer	Medium Density	59.0	20			Old white spruce plantation that has failed. A mix of deciduous and conifer has grown in it's place.
62	4119 - Mixed Northern Hardwoods	High Density Pole	47.1	60	51-80		Nice stand of younger hardwood. Some very nice sugar maple poles. Nice regeneration within some of the understory. Look at possibly thinning in next YOE.
63	42210 - Natural Red Pine	High Density Log	17.8	77			Old stand of red pine mixed with a few other species. Do not treat stand due to active nest and larger clearcut to the North. Possibly treat next YOE.
65	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	11.4	26			An old shelterwood cut that is regenerating back nicely to a red maple, white birch, and red maple mix.
67	4123 - Red Oak	Medium Density Pole	8.4	60	1-50		Stand of very scrubby red oak. Dead oak scattered throughout the stand. Small red pine and white pine within the understory.
68	4131 - Aspen, Oak	Medium Density Pole	9.2	32			Was originally typed as a grass opening. Stand consists of clumps of oak, red maple, and aspen with a couple of grass openings mixed within it.



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Sault Ste. Marie Mgt. Unit

## 5 – Forested Stands

Compartment: 038  
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	4199 - Other Mixed Upland Deciduous	Low Density Sapling	9.5	10		Budworm Buffet timber sale (45-014-10-01). Stand was cut in May 2011. Residual trees left within cut make the stand still forested. Maple, aspen, and red oak will fill in.
70	4123 - Red Oak	Medium Density Log	21.3	80	81-110	Some red oak dying within the stand. Perform a shelterwood cut on this stand. Keep a representation of red maple, sugar maple, and red oak for residual.
71	4131 - Aspen, Oak	High Density Sapling	56.0	28		Stand with a mix of aspen, red oak, and paper birch clumps. Stand is good quality. Some of the oak regeneration is very, very nice. A few scattered white pine and red pine throughout the stand that were not cut back when.
72	42220 - Natural Jack Pine	Low Density Sapling	8.0	7		Stand is slowly regenerating back to jack pine but the density is low. I am assuming stand will fill in better as time goes on.
73	4130 - Aspen	High Density Sapling	34.6	7		Nice aspen regeneration within the stand. A few black cherry saplings here and there as well.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	310 - Herbaceous Openland	6.4	No	Unspecified	Grass opening is slowly filling in with Jack Pine. I am sure by the next YOE this opening can be considered forested as it is close to it as of now.
4	310 - Herbaceous Openland	4.0	N/A	Unspecified	
26	622 - Lowland Shrub	6.7	N/A	Unspecified	
34	710 - Sand, Soil	47.1	N/A	Unspecified	
39	310 - Herbaceous Openland	6.3	N/A	Unspecified	
41	310 - Herbaceous Openland	1.7	N/A	Unspecified	
56	310 - Herbaceous Openland	10.7	N/A	Unspecified	
58	3102 - Grass	58.1	Planted	Jack Pine	FTP is submitted and Don Kuhr is preparing to trench and plant this stand.
59	310 - Herbaceous Openland	0.5	N/A	Unspecified	
64	310 - Herbaceous Openland	14.3	N/A	Unspecified	
66	310 - Herbaceous Openland	2.7	N/A	Unspecified	



### 7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments
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**8 – DEDICATED CONSERVATION AREA DETAILS**

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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.