



Sault Forest Management Unit
Compartment Review Presentation
Compartment #140 **Entry Year: 2012**
Compartment Acreage: 1,915 **County: Mackinac**

Revision Date: August 6, 2010

Stand Examiner: Karen Rodock

Legal Description: T 44 N R 7 W Sections 28, 29 & 30; Hendricks Township

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Strickler Aspen

Management Goals: The compartment is around 2 miles northwest of Epoufette along the Paquin Creek Road and Sand Lake Road. The compartment is within the Strickler Aspen Management Area. The compartment is composed of large areas of younger aspen stand which were created by harvesting and the May of 1999 Troll fire. Some aspen management of the adjacent stands was deferred for a decade or more for species and age class diversity within the compartment. Portions of the remaining older aspen mixed stands are prescribed for treatment in this inventory cycle. Some of the hardwood stands in the compartment are prescribed for a selection harvest. The beech bark disease is affecting the area and beech are dying throughout the stands. The red pine stands in the compartment are prescribed for treatments including final harvest, thinning, seed tree and monitoring for insects and disease. Stand 39 is under contract for harvesting under the Red Pine Project Phase 2 process and will be planted to red pine. One red pine stand was shelterwood harvested previously with a little success in getting some red pine regeneration. The stand is prescribed for a seed tree harvest to open up the stand more and scarify the site to obtain more natural regeneration of red pine.

Soil and Topography: The soils are primarily composed of Wallace sand, Paquin-Spot complex, Pullup sand, Paquin sand and Paquin-Finch complex in the uplands. The transition areas to lowland areas are Markey-Spot-Finch complex, Spot-Finch complex, Finch sand, and Markey and Carbondale Mucks. The terrain is level to rolling with a few small steep ridges and grading to wet areas. The compartment has some small streams and drainages.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment and surrounding sections are completely in state ownership with only one 40 acre parcel south east of section 28 and a 109 acre parcel south of section 28 in section 33 is in private ownership.

Unique, Natural Features: There is a potential for rare, threatened or endangered plant and animal species and natural communities within this compartment.

Archeological, Historical, and Cultural Features: None found or noted for this compartment.

Special Management Designations or Considerations: BMP guidelines will be adhered to along the stream corridors.

Watershed and Fisheries Considerations: This compartment contains stream reaches of Paquin Creek. Paquin Creek is a cold-water stream that supports stream-resident fish community of brook trout, pearl dace, slimy sculpin, central mudminnow, brook stickleback. Paquin Creek is also important that it supports natural reproduction of Lake Michigan potadromous fishes such as steelhead, Chinook salmon, and coho salmon. Implementation of BMP's will aid in preventing sediment input from road crossings and 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 located approximately 2 miles north of the Lake Michigan shoreline near Epoufette. Two small streams flow south out of the compartment. Historically, beech and sugar maple forests dominated much of the compartment, with cedar or other lowland conifer swamps located in depressions. Current composition is similar with aspen and hardwoods of varying ages common, although younger age classes (sapling to small pole size trees) offer high representation currently. The Troll Fire burned part of the west side of this compartment in 1999. The aspen and hardwood saplings now growing in the burn area contribute to the high representation of younger age classes in the compartment. This habitat is preferred by wildlife such as ruffed grouse is well-represented throughout. Activity over the next 10 years will focus on maintaining aspen stands by harvesting some overmature stands while retaining other older aspen stands to maintain age class diversity. Diversity will also be maintained in red pine stands by retaining other species, especially deciduous species, within those stands. Harvests with the exception of red pine thinnings will take place during the winter months due to soil limitations and also to provide browse for wintering white-tailed deer. Closed canopy conifer stands will be maintained to provide cover. Diversity will be maintained in hardwood stands. Vernal wetlands and streams will be buffered to protect these resources. Wildlife species benefitting from management within this compartment include white-tailed deer, wolf, black bear, ruffed grouse, American woodcock, broad-winged hawk, and red-backed salamander.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine Group subcrops below the glacial drift. The Engadine is quarried for stone/limestone elsewhere in the UP. The nearest gravel pit is four miles to the north. There may be some gravel potential in the compartment. There is no economic oil and gas production in the UP, currently.

Vehicle Access: The Paquin Creek Road and the Sand Lake Road are the main vehicle access routes in the compartment. Small roads such as the Grassy Camp Road are found within the compartment and get minimal use. Some of the old logging roads are filling in and undriveable.

Survey Needs: None are needed in this compartment.

Recreational Facilities and Opportunities: The Paquin Creek Road and Sand Lake Road are part of groomed snowmobile trail number 473. The roads are used by ORV's throughout the compartment. Most of the other recreational activities are hunting, trapping, berry picking and sightseeing.

Fire Protection: There is potential for fires within the compartment as demonstrated by the Troll fire of 1999. There is a mix of wet ground within the high ground areas to assist in slowing fire spread if one occurs. The potential is moderate to low within the compartment.

Additional Compartment Information: Stand 39 is presently under timber sale contract for the red pine project.

- **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**

Cover Type & Treatment Map

Compartment 140
 T43N, R07W, Sec. 28, 29, 30
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2012
 Acres: 1,915 GIS Calculated
 Stand Examiner: Karen Rodock
 Map Revised: 8/13/2010
 Map Phase: Pre-Review

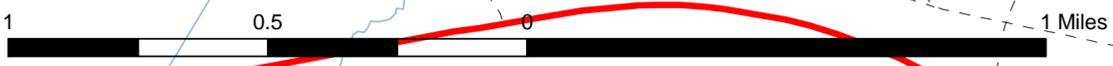
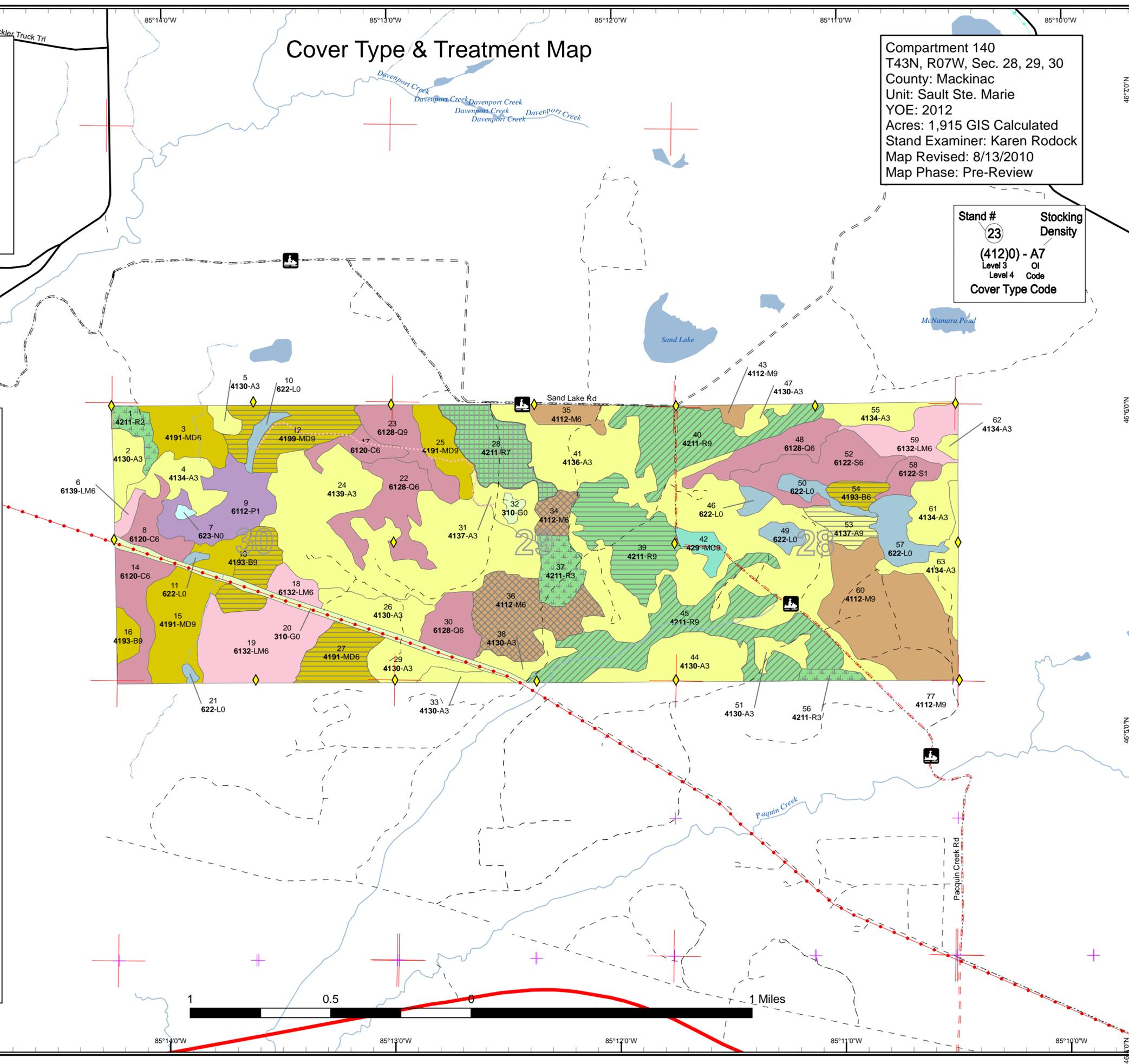
Stand #
 23
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

30 29 28



Legend

- Miris Corners
 - ◆ RLS Corners
 - + Remonumented Section Corners
 - Cable
 - Pipe
 - Power
 - Highway
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Closed Roads
 - Trails
 - US Highway
 - Snowmobile Trails
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
- Treatments**
- Other Treatment - See Comments
 - Seed Tree (w/Reserves)
 - Thinning (Crown, Low, Systematic)
 - Clearcut (w/Reserves, Patch/Strip)
 - Selection (Group, Single Tree)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland



Stand Boundary Map

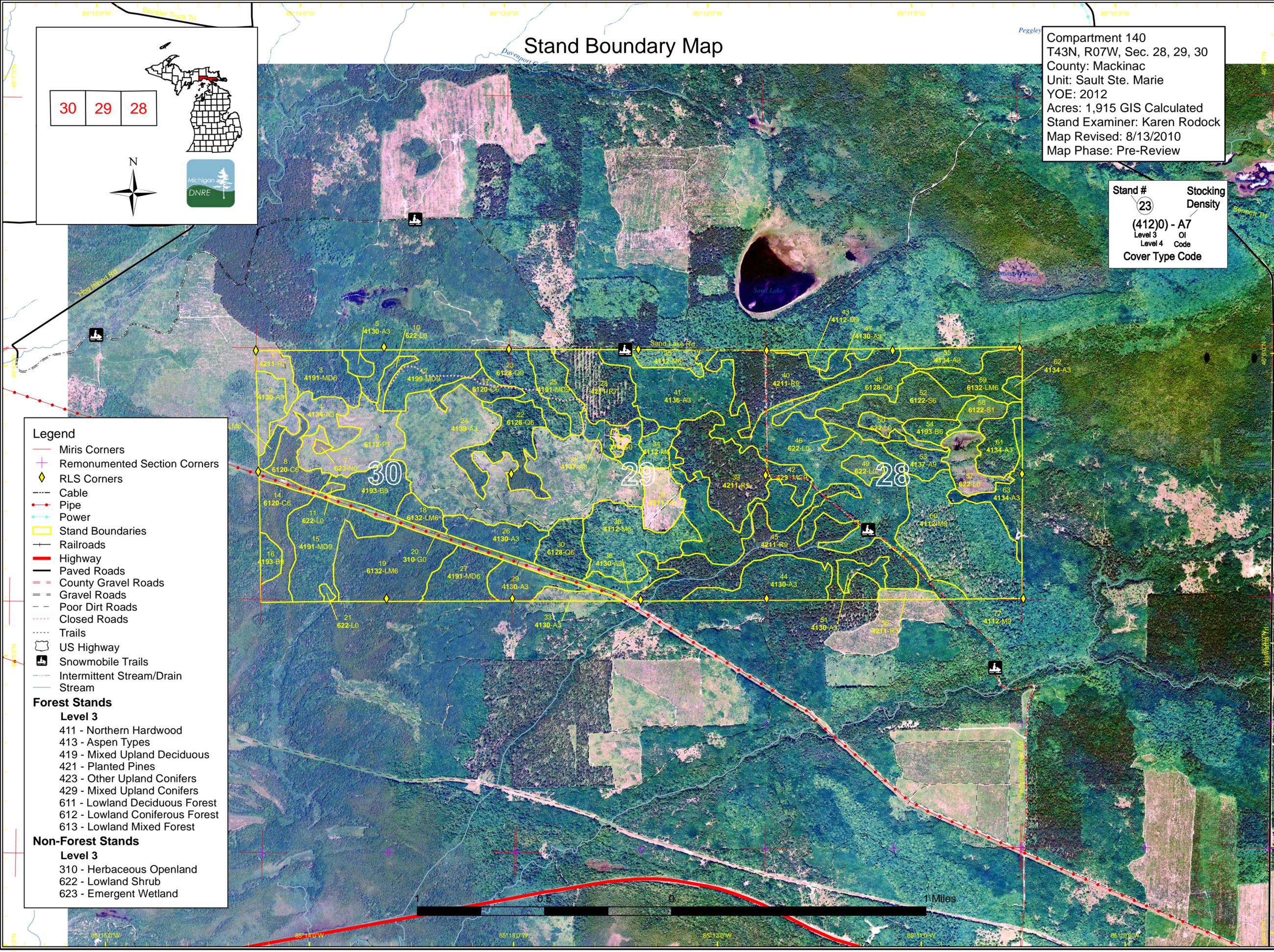
Compartment 140
 T43N, R07W, Sec. 28, 29, 30
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2012
 Acres: 1,915 GIS Calculated
 Stand Examiner: Karen Rodock
 Map Revised: 8/13/2010
 Map Phase: Pre-Review

Stand # **23**
 Stocking Density
(4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

30 29 28



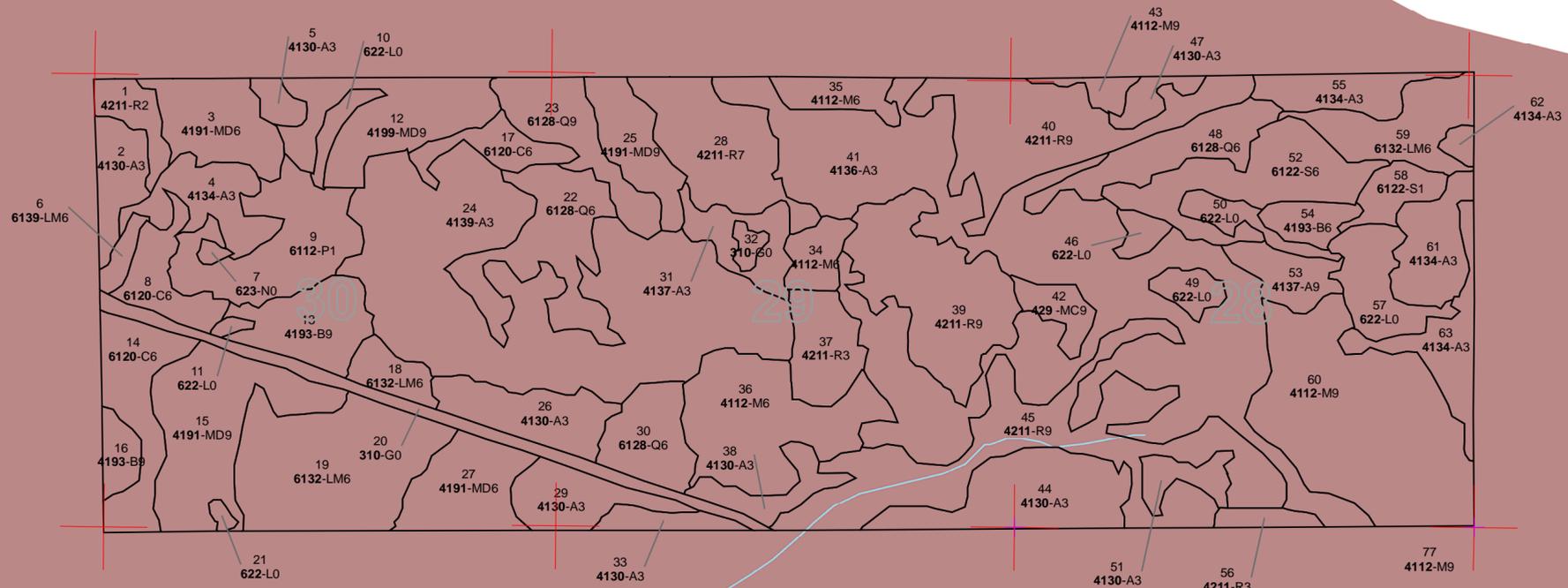
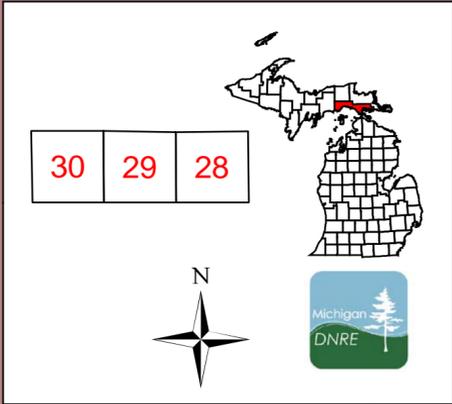
- Legend**
- Miris Corners
 - Remonumented Section Corners
 - ◆ RLS Corners
 - Cable
 - Pipe
 - Power
 - Stand Boundaries
 - Railroads
 - Highway
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Closed Roads
 - Trails
 - US Highway
 - Snowmobile Trails
 - Intermittent Stream/Drain
 - Stream
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 310 - Herbaceous Openland
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland



Dedicated & Proposed Special Conservation Area Map

Compartment 140
 T43N, R07W, Sec. 28, 29, 30
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2012
 Acres: 1,915 GIS Calculated
 Stand Examiner: Karen Rodock
 Map Revised: 8/13/2010
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- ✦ Remonumented Section Corners
- Stand Boundaries
- Proposed Special Conservation Areas**
- ▨ SCA - Special Conservation Area
- ▩ SCA Removal
- Dedicated Special Conservation Areas**
- Deer Wintering Areas
- Cold Water Streams

Forest Stands

Level 3

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

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland

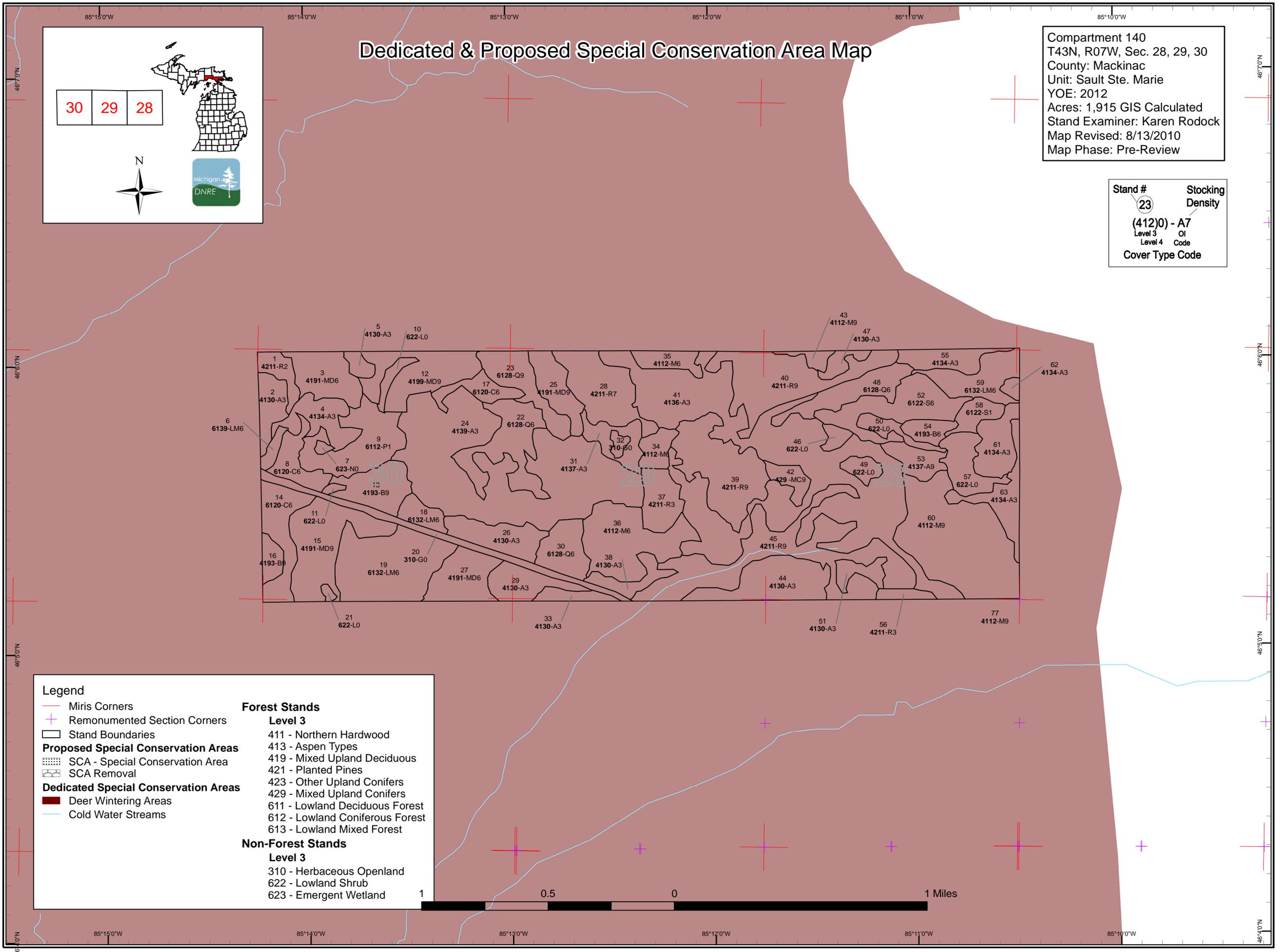


Table 1 – Total Acres by Cover Type and Age Class

Data updated before 2:00 PM



	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 +		Uneven Age
Aspen	0	35	509	79	65	0	0	0	15	0	0	0	0	0	0	702
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	14	50	0	64
Herbaceous Openland	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Lowland Aspen/Balsam Poplar	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Conifers	0	0	0	0	0	0	0	0	28	71	23	0	0	0	0	122
Lowland Mixed Forest	0	0	0	0	0	0	0	0	5	29	0	81	0	0	0	115
Lowland Shrub	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Lowland Spruce/Fir	0	0	0	12	0	0	0	0	0	44	0	0	0	0	0	56
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	73	106	0	0	0	0	0	0	179
Northern Hardwood	0	0	0	0	0	0	0	0	24	62	103	0	0	0	0	189
Paper Birch	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	46
Red Pine	0	0	39	0	0	0	0	0	263	0	0	0	0	0	0	302
Upland Conifers	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10
Total	85	35	594	90	65	0	0	73	496	207	126	81	14	50	0	1915



Sault Ste. Marie Mgt. Unit
Year of Entry 2012

Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Compartment 140
Total Compartment Acres: 1915

Acres by Treatment Type

Commercial Harvest - 453	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 39
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
Aspen	15	0	0	0	0	0	15
Mixed Upland Deciduous	81	0	0	0	0	0	81
Northern Hardwood	0	68	0	0	0	0	68
Paper Birch	26	0	0	0	0	0	26
Red Pine	60	0	44	0	159	0	263
Total	182	68	44	0	159	0	453



Data updated before 2:00 PM

S
t
a
n
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12 45140012-Cut	43.7	4199 - Other Mixed Upland Deciduous	High Density Log	69	Harvest	Clearcut with Reserves	Aspen, Birch	Cmpt. Review Proposal

Prescription Cut this stand with adjacent stand 26 in compartment 138 because of access. Some areas will not be harvested for retention especially cedar groves. Budding trees will be left along edges, especially against the younger aspen age classes. Vernal wetlands found within the stand will be buffered appropriately (approximately one tree length away from edge). Cedar, hemlock and larger white pine will be left and a component of birch for retention. All conifer < 4 inches at dbh will be left. Leave some wolfy aspen. Winter cut.

Other Comments: The lowland brush stand and streams if found should be buffered by 100'.

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

13 45140013-Cut	16.2	4193 - Birch, Aspen	High Density Log	72	Harvest	Clearcut with Reserves	Aspen, Birch	Cmpt. Review Proposal
-----------------	------	---------------------	------------------	----	---------	------------------------	--------------	-----------------------

Prescription The stream along the west edge of the stand will be buffered by 100'. Some areas will not be harvested for retention especially cedar groves. Budding trees will be left along edges, especially against the younger aspen age classes. Vernal wetlands found within the stand will be buffered appropriately (approximately one tree length away from edge). Cedar, hemlock and larger white pine will be left and a component of birch for retention. All conifer < 4 inches at dbh will be left. Leave some wolfy aspen. Winter cut.

Other Comments: Harvest with stands 15 and 27 because of access and winter harvest.

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

15 45140015-Cut	8.2	4191 - Mixed Upland Deciduous with Conifer	High Density Log	72	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal
-----------------	-----	--	------------------	----	---------	------------------------	------------------------	-----------------------

Prescription The stream along the west edge of the stand will be buffered by 100'. Some areas will not be harvested for retention especially cedar groves. Budding trees will be left along edges, especially against the younger aspen age classes. Vernal wetlands found within the stand will be buffered appropriately (approximately one tree length away from edge). Cedar, hemlock and larger white pine will be left and a component of birch for retention. All conifer < 4 inches at dbh will be left. Leave some wolfy aspen. Winter cut.

Other Comments: Harvest with stands 13 and 27 because of access and winter harvest. Harvest only the east side of stream.

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

27 45140027-Cut	29.4	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	66	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal
-----------------	------	--	-------------------	----	---------	------------------------	------------------------	-----------------------

Prescription Some areas will not be harvested for retention especially cedar groves. Budding trees will be left along edges, especially against the younger aspen age classes. Vernal wetlands found within the stand will be buffered appropriately (approximately one tree length away from edge). Cedar, hemlock and larger white pine will be left and a component of birch for retention. All conifer < 4 inches at dbh will be left. Leave some wolfy aspen. Winter cut.

Other Comments: Harvest with stands 13 and 15 because of access and winter harvest.

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

28 45140028-Cut	43.6	42110 - Planted Red Pine	Low Density Log	78	Harvest	Seed Tree with Reserves	Planted Red Pine	Cmpt. Review Proposal
-----------------	------	--------------------------	-----------------	----	---------	-------------------------	------------------	-----------------------

Prescription Mark seed tree down to 10 - 30 BA residual. Cut in snow free condition to scarify the soil for natural red pine seeding. Try to protect as much of the regeneration as possible.

Other Comments: Some of the regeneration will be damaged during harvesting.

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



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	45140034-Cut	11.4	4112 - Maple, Beech, Cherry Association	High Density Pole	77	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all juneberry and conifer should be left. Some aspen should be left on site. Do not open up around the aspen to much because of the presence of aspen regeneration throughout the compartment.</p> <p><u>Specs:</u></p> <p><u>Other</u> Beech bark disease is heavy within the stand.</p> <p><u>Comments:</u></p> <p><u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, white and yellow</p> <p><u>Steps:</u> birch, basswood, aspen and ironwood.</p>									
36	45140036-Cut	56.6	4112 - Maple, Beech, Cherry Association	High Density Pole	87	Harvest	Single Tree Selection	S.Maple, Hard Mast Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark stand to 80 to 90 Basal Area. Retain 2 to 5 beech per acre where present with the smooth bark and wildlife trees. Some ironwood, basswood and all juneberry, some scattered mature aspen and most cherry where present and all conifer should be left. Do not open up around the aspen to much because of the presence of aspen regeneration throughout the compartment.</p> <p><u>Specs:</u></p> <p><u>Other</u> Beech bark disease is heavy within the stand.</p> <p><u>Comments:</u></p> <p><u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, yellow and paper</p> <p><u>Steps:</u> birch, basswood, aspen and ironwood.</p>									
39	45140039-Cut	59.8	42110 - Planted Red Pine	High Density Log	73	Harvest	Clearcut	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> 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.</p> <p><u>Specs:</u></p> <p><u>Other</u> Stand is under contract on Corner Camp Pine RPP 45-113-09-01.</p> <p><u>Comments:</u></p> <p><u>Next</u> After harvest treatment is completed, trenching and hand planting of red pine seedling 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.</p> <p><u>Steps:</u></p>									
40	45140040-Cut	61.6	42110 - Planted Red Pine	High Density Log	79	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Thin to around 120 Basal Area. Leave species diversity within the stand were present.</p> <p><u>Specs:</u></p> <p><u>Other</u> Stand was thinned previously.</p> <p><u>Comments:</u></p> <p><u>Next</u></p> <p><u>Steps:</u></p>									
45	45140045-Cut	97.8	42110 - Planted Red Pine	High Density Log	73	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Thin to around 120 Basal Area. Leave species diversity within the stand were present. A buffer of approximately 100' will be left along the intermittent stream drainages. Use care to prevent any erosion and any rutting near the banks of the streams.</p> <p><u>Specs:</u></p> <p><u>Other</u> The area was on proposal but not cut last YOE.</p> <p><u>Comments:</u></p> <p><u>Next</u></p> <p><u>Steps:</u></p>									



Data updated before 2:00 PM

S
t
a
n
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
53 45140053-Cut	14.9	4137 - Aspen, Birch	High Density Log	76	Harvest	Clearcut with Reserves	Aspen, Birch	Cmpt. Review Proposal

Prescription: The marsh along the east edge of the stand will be buffered by 100'. Some areas will not be harvested for retention. Budding trees will be left along edges, especially against the younger aspen age classes. Vernal wetlands found within the stand will be buffered appropriately (approximately one tree length away from edge). Leave all cedar, hemlock, white pine, cherry, yellow birch and a component of birch for retention. All conifer < 4 inches at dbh will be left.

Other Comments: Winter cut with stand 54.

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

54 45140054-Cut	10.1	4193 - Birch, Aspen	High Density Pole	76	Harvest	Clearcut with Reserves	Aspen, Birch	Cmpt. Review Proposal
-----------------	------	---------------------	-------------------	----	---------	------------------------	--------------	-----------------------

Prescription: The marsh along the south east edge of the stand will be buffered by 100'. Some areas will not be harvested for retention. Budding trees will be left along edges. Vernal wetlands found within the stand will be buffered appropriately (approximately one tree length away from edge). Leave all cedar, hemlock, white pine, cherry, yellow birch and a component of birch for retention. All conifer < 4 inches at dbh will be left.

Other Comments: Have to cross small lowland brush stand. Winter cut stand because of access and cut with stand 53.

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

1 45140001-Other	11.4	42110 - Planted Red Pine	Medium Density Sapling	11	Other	Unspecified	Planted Red Pine	Cmpt. Review Proposal
------------------	------	--------------------------	------------------------	----	-------	-------------	------------------	-----------------------

Prescription: Monitor for RHPS or other pests within the stand.

Specs:

Other Comments: Stand was burned on Troll Fire in 1999. Stand was trenched and planted to red pine in the same year.

Next Steps: Monitor for RHPS and if monitoring shows that treatment is recommended, then spray when/if necessary with appropriate insecticide recommended by Forest Health Specialist/TMS.

37 45140037-Other	21.8	42110 - Planted Red Pine	High Density Sapling	11	Other	Unspecified	Planted Red Pine	Cmpt. Review Proposal
-------------------	------	--------------------------	----------------------	----	-------	-------------	------------------	-----------------------

Prescription: Monitor for RHPS or other pests within the stand.

Specs:

Other Comments: The stand was prescribed burned trenched and hand planted in 1999.

Next Steps: Monitor for RHPS and if monitoring shows that treatment is recommended, then spray when/if necessary with appropriate insecticide recommended by Forest Health Specialist/TMS.

56 45140056-Other	5.7	42110 - Planted Red Pine	High Density Sapling	15	Other	Unspecified	Planted Red Pine	Cmpt. Review Proposal
-------------------	-----	--------------------------	----------------------	----	-------	-------------	------------------	-----------------------

Prescription: Monitor for RHPS or other pests within the plantation.

Specs:

Other Comments: The stand was prescribed burned, trenched and hand planted in 1995. The stand has been released.

Next Steps: If monitoring shows that treatment is recommended, then spray when/if necessary with appropriate insecticide recommended by Forest Health Specialist/TMS. Continue to monitor.

**Total Treatment
Acreage Proposed: 492.0**



S
t
a
n
d

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

#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acres Proposed: 0

S t a n d	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 140
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
1	42110 - Planted Red Pine	Medium Density	11.4	11		Burn in 1999 from Troll Fire. The stand was trenched and planted Fall of 1999. Still pest concerns. Looks good 5' to 20' tall.
2	4130 - Aspen	High Density Sapling	16.3	11		Burned in 1999 was cut in 1997. Open areas look like frost damage areas.
3	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	29.2	73		Mortality to aspen and birch. Small low area within the stand.
4	4134 - Aspen, Spruce/Fir	High Density Sapling	24.3	11		Some wet areas. Standing dead trees from Troll Fire burn in 1999. Good regen .
5	4130 - Aspen	High Density Sapling	5.7	16		Cut in 1994 on Cat Kill Hardwood Sale. Good regeneration and good mix.
6	6139 - Mixed Lowland Forest	High Density Pole	5.0	73		Small ridge in the stand. Wet most other areas of stand. Some mortality to birch.
8	6120 - Lowland Cedar	High Density Pole	18.3	121		Creek Flows thru Stand. Some mortality to the cedar.
9	6112 - Lowland Aspen	Low Density Sapling	45.5	11		Burned on the Troll Fire in 1999. Open areas with real wet areas and some upland areas. Good aspen regeneration in the stand.
12	4199 - Other Mixed Upland Deciduous	High Density Log	43.7	69		The stand is deteriorating with mortality to the aspen, birch and balsam. Small patch of cedar in the north part of the stand. There are a few low areas within the stand.
13	4193 - Birch, Aspen	High Density Log	27.5	72		Creek flows thru the stand with cedar along the stream cooridor. Mortality to the birch and aspen and some balsam. Stand is dereriorating and should be harvested.
14	6120 - Lowland Cedar	High Density Pole	31.3	121		Stand is wet cedar stand with creek flowing thru the stand. There are some areas which have more tag alder and smaller cedar.
15	4191 - Mixed Upland Deciduous with Conifer	High Density Log	54.7	72		A creek flows thru the stand from the pipeline south. There is cedar and hemlock along the creek cooridor and tag alder in areas. The creek will need to buffered if stand is harvested. Mortality to aspen, birch and balsam.
16	4193 - Birch, Aspen	High Density Log	8.3	72		Deteriorating stand with poor access.
17	6120 - Lowland Cedar	High Density Pole	13.9	119		Heavy cedar stand with a few open tag alder patches.
18	6132 - Mixed Lowland Forest with Cedar	High Density Pole	10.9	103		Some very low areas with heavy cedar and aspen and birch mixed in. Pipeline and powerline separate the stands. Wet on pipeline in areas along the stand. Mortality to aspen and birch within the stand.



S
t
a
n
d

Sault Ste. Marie Mgt. Unit

5 – Forested Stands
Data updated before 2:00 PM

Compartment: 140
Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	6132 - Mixed Lowland Forest with Cedar	High Density Pole	69.9	103		Some mortality to birch, aspen and balsam fir. Very wet in some areas. Heavy to cedar with birch and aspen mixed in.
22	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	43.2	86		very wet most years. areas of heavy regeneration. Lots of mortality to cedar and birch .
23	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	28.0	76		Some very wet areas. mortality to birch, spruce and aspen.
24	4139 - Aspen, Mixed Deciduous	High Density Sapling	187.3	11		Burned in 1999 on troll Fire Very mixed stand. Some wet areas and Some open areas.
25	4191 - Mixed Upland Deciduous with Conifer	High Density Log	22.2	72	111-140	Very mixed stand few lower areas. Mortality to birch and aspen.
26	4130 - Aspen	High Density Sapling	26.5	26		Cut in 1984.
27	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	29.4	66		Mixed stand of Mackinac Mix. Mostly upland which is deteriorating and mortality is occurring.
28	42110 - Planted Red Pine	Low Density Log	43.6	78	51-80	Shelterwood Cut in 1998, then salvage cut in 2003. Some red pine regen up to 3' tall between rows.
29	4130 - Aspen	High Density Sapling	21.3	16		Cut in 1984 and 1994. Good regen.
30	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	23.3	91		Mixed Q type stand with areas heavy to cedar with the Mackinac Mix.
31	4137 - Aspen, Birch	High Density Sapling	16.9	27		Cut in 1984 good regen and good mix.
33	4130 - Aspen	High Density Sapling	8.2	8		Cut in 2002 on Airless Aspen Sale. Regen is 4 to 15' tall.
34	4112 - Maple, Beech, Cherry Association	High Density Pole	11.4	77	111-140	Select cut. BBD and mortality to beech. Some very large beech present.
35	4112 - Maple, Beech, Cherry Association	High Density Pole	12.3	78	81-110	cut in 2005- on Summers End Hardwood 45-119-03-01 Some aspen regen from the cut.
36	4112 - Maple, Beech, Cherry Association	High Density Pole	56.6	87	111-140	Heavy BBD and mortality to beech. Lots of aspen in areas. Mortality to aspen also. Some white spruce in the stand.
37	42110 - Planted Red Pine	High Density Sapling	21.8	11		Cut in 1998 then burned and replanted in 1999 and 2000. Good regen with a few open areas. Red pine Starting to outgrow aspen and cherry. red pine is 3 to 15'tall.

S t a n d	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 140
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
38	4130 - Aspen	High Density Sapling	13.2	16		Cut in 1994. Good regen some red pine in the stand along east side,
39	42110 - Planted Red Pine	High Density Log	59.8	73	111-140	On Contract 45-113-09-01 Corner Camp Pine .
40	42110 - Planted Red Pine	High Density Log	61.6	79	111-140	Areas of thicker maple and beech regeneration plus a few aspen areas. Was thinned in 1998 on Section 29 Pine sale #27-93-01. Could be thinned.
41	4136 - Aspen, Mixed Conifer	High Density Sapling	241.1	19		Nice stand of regeneration. Has Red Pine in overstory. There are a few open areas plus areas with more red pine
42	429 - Mixed Upland Conifers	High Density Log	10.0	73	81-110	Mix of red pine with heavy aspen regen .
43	4112 - Maple, Beech, Cherry Association	High Density Log	5.4	82	81-110	Thinned on Summer Student Special Sale #35-98-01. Heavy browse of the understory which is mostly beech and striped maple.
44	4130 - Aspen	High Density Sapling	42.1	31		Aspen with Red Pine in the overstory. Good aspen.
45	42110 - Planted Red Pine	High Density Log	97.8	73	141-170	Open areas. a few Jack pine left on site. Some maple understory. Has been thinned before.
47	4130 - Aspen	High Density Sapling	7.2	28		Cut in 1982 under contract #39-80. Good regeneration of aspen, birch cherry and red maple with some balsam.
48	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	27.9	88		Very mixed stand. Some hemlock. Some mortality to birch and cedar.
51	4130 - Aspen	High Density Sapling	9.9	27		Some Red Pine in the overstory. 20 to 30' tall aspen with Some paper birch regeneration
52	6122 - Black Spruce	High Density Pole	44.3	88		Poor quality stand with spruce, fir, cedar, birch, aspen and balm. There are some open areas within the stand.
53	4137 - Aspen, Birch	High Density Log	14.9	76		Lots of older aspen and birch with other species mixed in the stand. Leave some aspen and birch along the edges.
54	4193 - Birch, Aspen	High Density Pole	10.1	76		Stand is a ridge area between the lowland areas. There are a few low areas but is mostly uplands. Some mortality to birch, aspen and balsam. cut with adjacent birch - aspen stand.
55	4134 - Aspen, Spruce/Fir	High Density Sapling	18.1	26		Good regeneration of 10 to 30' tall with a few trees left on cut in 1982 and 1984.
56	42110 - Planted Red Pine	High Density Sapling	5.7	15		Good regeneration of 15-25' tall. Some maple, cherry and aspen.



S
t
a
n
d

Sault Ste. Marie Mgt. Unit

5 – Forested Stands
Data updated before 2:00 PM

Compartment: 140
Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	6122 - Black Spruce	Low Density Sapling	11.6	26		This is a very poor stand with black spruce, birch and tag alder.
59	6132 - Mixed Lowland Forest with Cedar	High Density Pole	29.2	87		Part of stand was choppers' choice cut. Very mixed stand.
60	4112 - Maple, Beech, Cherry Association	High Density Log	102.9	94	81-110	Cut in 2006 on Short timer Hardwood. BBD on beech and are dying.
61	4134 - Aspen, Spruce/Fir	High Density Sapling	23.4	4		Cut on Smith Creek Mix sale 45-116-03-01 in July 2006. Good regeneration of 3 to 8' tall.
62	4134 - Aspen, Spruce/Fir	High Density Sapling	3.2	4		Part of Smith Creek Mix sale 45-113-03-01. Cut in July 2006. Good regeneration of 3 to 8' tall.
63	4134 - Aspen, Spruce/Fir	High Density Sapling	22.7	31		TSI cut in 1979. Good stand of aspen with some conifer mixed into the stand.



Stand	Cover Type	Acres	Gen Cmts:
7	623 - Emergent Wetland	1.7	
10	622 - Lowland Shrub	5.8	
11	622 - Lowland Shrub	1.7	
20	310 - Herbaceous Openland	25.4	
21	622 - Lowland Shrub	1.7	
32	310 - Herbaceous Openland	3.4	
46	622 - Lowland Shrub	5.3	
49	622 - Lowland Shrub	7.6	
50	622 - Lowland Shrub	9.6	
57	622 - Lowland Shrub	22.4	



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.

Data updated before 2:00 PM

Stand	SCA Type	SCA Name	Acres	Comments
-------	----------	----------	-------	----------



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.

Data updated before 2:00 PM

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.