



Sault Ste Marie Forest Management Unit
Compartment Review Presentation
Compartment #177 **Entry Year: 2014**
Compartment Acreage: 2,182 **County: Mackinac**

Revision Date: 7/9/2012

Stand Examiner: Matt Edison

Legal Description: T43N-R10W, Sections 29 – 32

Garfield Township

RMU (if applicable): Mackinac Mix

Management Goals: This entry period management will be focused on thinning of the Northern Hardwood in need and final harvest of mature Aspen stands in need. Visual management will be a consideration during all operations within the compartment and within all stands that may have a potential effect on the travel influence zone associated with Big Knob Road.

Soil and Topography: Topography within the compartment is generally flat to slightly rolling. There are some ridge areas within the low lying areas. Soils vary from shallow soil with extensive rock outcroppings (Amadon rock outcrop complex) dominated by Northern hardwood and Aspen cover types, to Markey-Carbondale Muck and associated soils that are dominated by cedar and other lowland associated cover types. Other main soils present within the compartment are Amadon Longrie Sandy Loam and Leafriver Mucky Peat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: There is approximately 360 acres of private holdings within the compartment boundaries. A 40 acre parcel is located in the NW most corner of the compartment. This 40 acres is used as agricultural land as is the private land adjacent to it bordering the compartment in section 30. The remaining approximate 320 acres of private land is located in the north central part of the compartment immediately south and adjacent to US-2. This land ranges from open to wooded and is used primarily as hunting and recreational land. There are some permanently established hunting camps on this land. There is 5 acres in the northwest section of this large area of private holdings (NWNE Sec 30) that is owned to Garfield Township and has a refuse transfer station in place. The land surrounding the compartment is entirely private to the west. This land is undeveloped and used for hunting/ recreation land. To the north US-2 borders the compartment. To the east is predominantly State owned land as are the entire adjacent lands to the South.

Unique, Natural Features: From MNFI- There are many Osprey and Loon records to the west and east of the compartment. There is a recorded area of Alvar located within the compartment. There is potential within the compartment for numerous Alvar associated plants and other threatened or endangered plants. The potential for wood turtle is present along the Rock River.

Archeological, Historical, and Cultural Features: None

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: This compartment contains the Rock River. This stream supports spawning runs of Great Lakes species such as coho salmon, steelhead, Chinook salmon, and suspected coaster brook trout. 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: Compartment 177 is part of the Mackinac Mix Management Area. Aspen is dominant in much of the compartment in aspen or mixed stands, most of which have been treated in the past 25 years. As a result, much of the aspen in the compartment is relatively young. However a few mature stands remain. Other common types include northern hardwoods, spruce/fir and lowland spruce, and cedar particularly on the eastern side of the compartment. The eastern side of the compartment is part of a deer wintering complex.

Wildlife objectives include maintaining aspen where it exists while managing for age class diversity between stands and retaining some mature aspen, promoting diversity within hardwoods including maintaining mast producing species where they exist, and maintaining the cedar wintering cover for deer and other species. Stands on the east side of the compartment near deer wintering complex will be harvested during the winter to allow tops to be available as browse. Species benefitting from management in this compartment include deer, ruffed grouse, snowshoe hare, coyote, black bear, bobcat, and numerous migratory birds.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peak and muck and thin to discontinuous coarse-textured glacial till over bedrock. 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 twelve miles to the west. Gravel pits are located in the compartment and potential appears to be good in the west half. There is no economic oil and gas production in the UP.

Vehicle Access: Vehicle access into this compartment is via Big Knob Road from highway US-2. Big Knob Road is a seasonal (summer) DNR maintained, good quality dirt road. A private landowner of property located on Rock River Road (south of Compartment 177) has been plowing Big Knob Road himself during the winter months. Big Knob Road runs through the entire compartment in a north/ south direction. Further vehicle access to areas beyond Big Knob Road is limited to numerous two tracks and roads that remain from past timber harvests. The main limiting factor to accessing these more remote areas off Big Knob Road is the type of vehicle driven. Four wheel drive may be necessary to access some areas.

Survey Needs: Some corner work and blue line maybe required for treatments this entry.

Recreational Facilities and Opportunities: There are abundant opportunities for hunting and trapping of numerous wildlife species within this compartment. Big Knob State Forest Campground is located at the south end of Big Knob Road along the Lake Michigan shoreline. Other recreation opportunities that are accessed through this compartment via Big Knob Road are the Big Knob and Crow Lake pathways.

Fire Protection: There is limited potential for large wildfires within this compartment due to cover type and soil types. There is potential for smaller scale wildfires within the compartments grass openings and surrounding stands due to the high level of human activity (ignition source potential). Any fires in the remote or low lying areas of the compartment could be difficult to access and result in extensive mop-up problems due to heavy soil types. Water sources within the compartment are limited to the Rock River if there is a good enough flow. Knob Lake and Marsh Lake are located just to the south of the compartment, but have virtually no vehicle access. Lake Michigan is located within 3 miles from the south edge of the compartment. Garfield Township Volunteer Fire Department is located approximately 2.5 miles from the compartment.

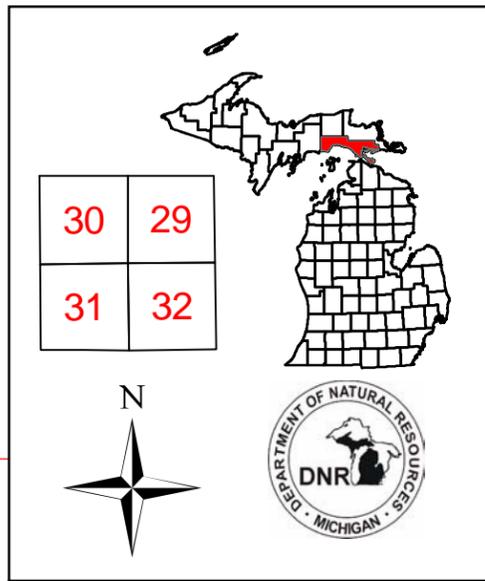
Additional Compartment Information:

- **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**

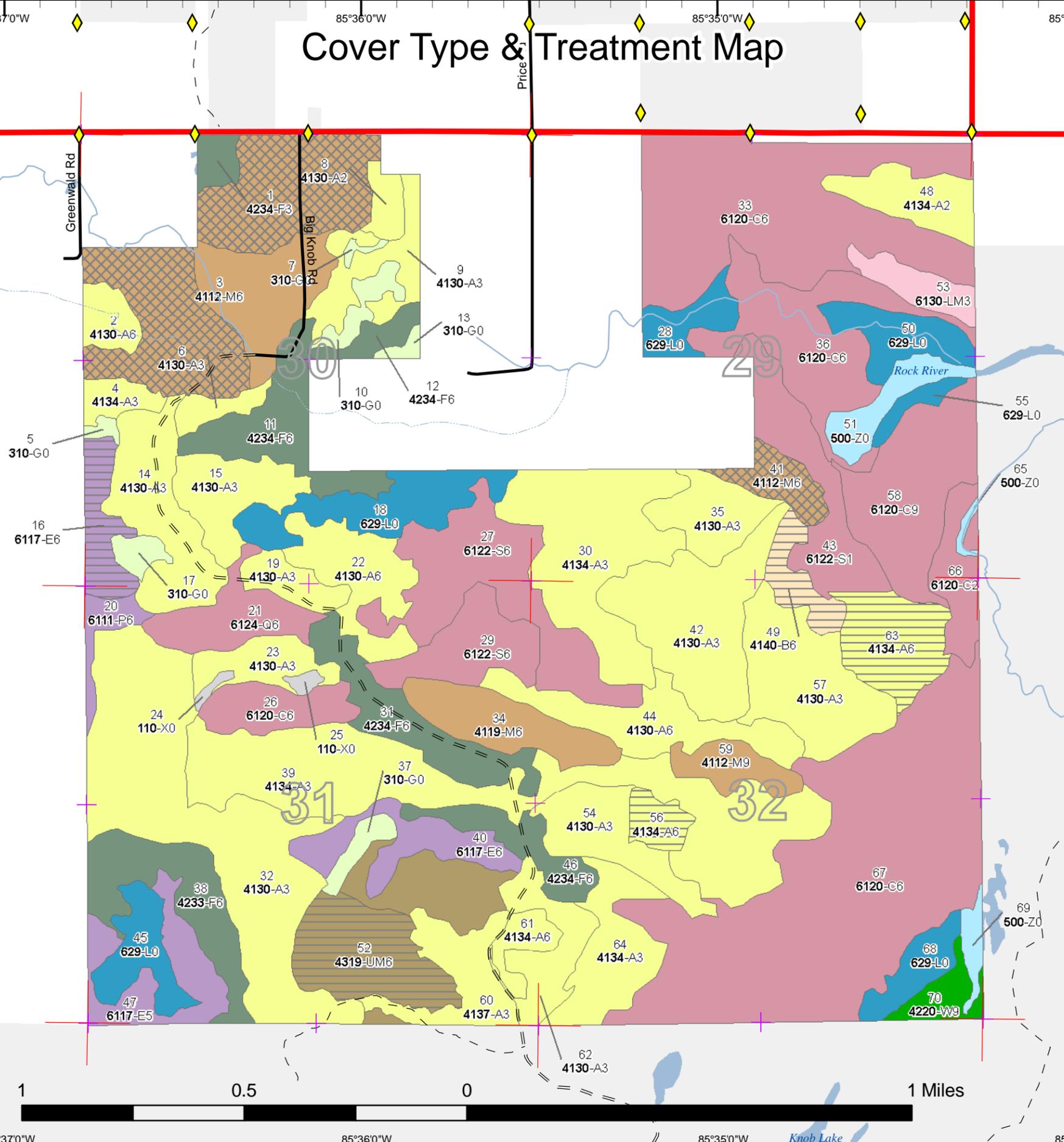
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

Cover Type & Treatment Map

Compartment: 177
 T43N R10W Sec. 29 - 32
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2014
 Acres: 2,182 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 08/08/2012
 Map Phase: Pre-Review



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



Legend

- Remonumented Section Corners
- Miris Corners
- PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)

Forest Stands

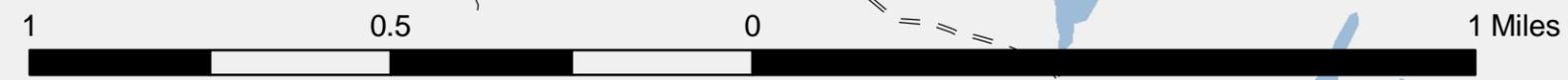
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

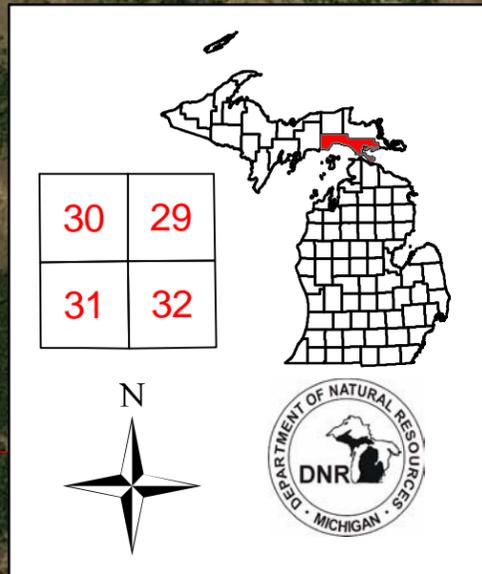
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 629 - Mixed non-forested wetland
- State Forest Land



85°38'0"W 85°37'0"W 85°36'0"W 85°35'0"W 85°34'0"W 85°33'0"W

Stand Boundary Map

Compartment: 177
 T43N R10W Sec. 29 - 32
 County: Mackinac
 Unit: Sault Ste. Marie
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 Examiner: Matt Edison
 Map Revised: 08/08/2012
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Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Remonumented Section Corners
- Miris Corners
- PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

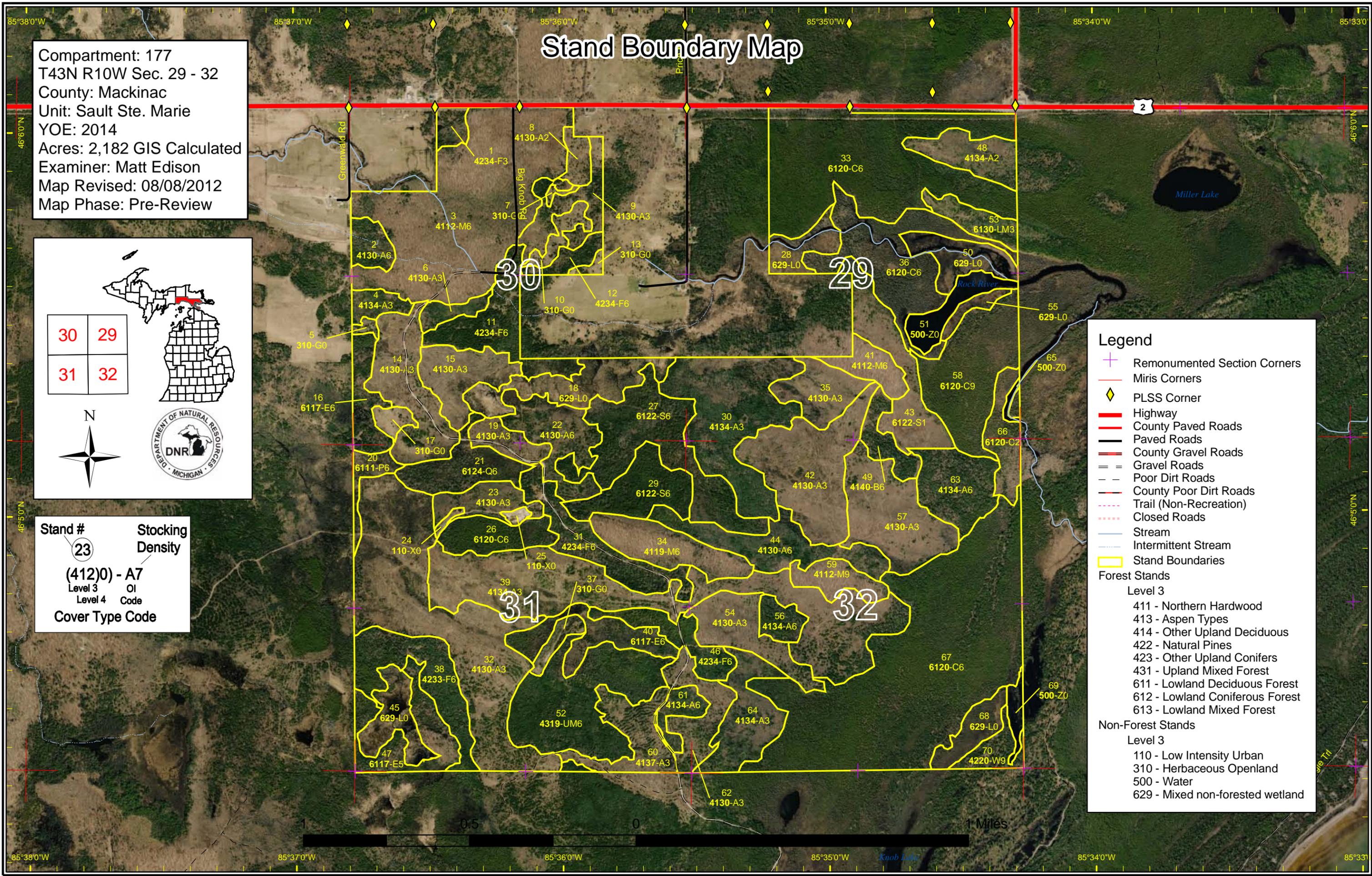
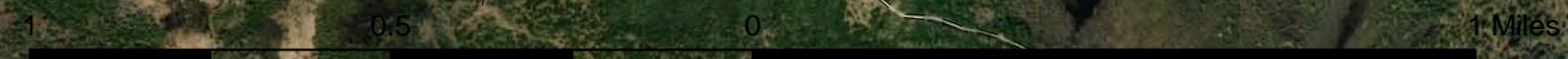
Level 3

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- 413 - Aspen Types
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Non-Forest Stands

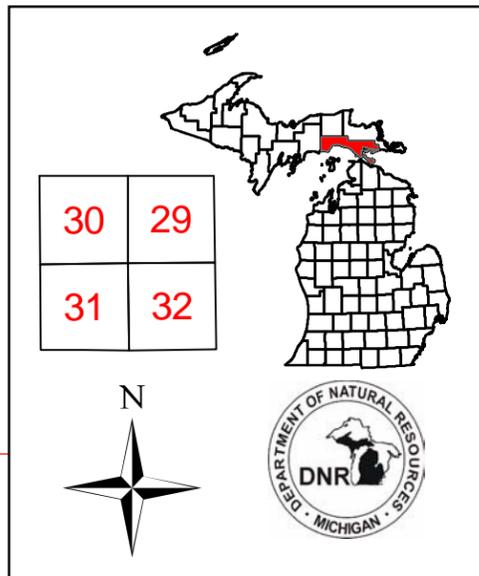
Level 3

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- 310 - Herbaceous Openland
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- 629 - Mixed non-forested wetland



Dedicated & Proposed Special Conservation Area Map

Compartment: 177
 T43N R10W Sec. 29 - 32
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2014
 Acres: 2,182 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 08/08/2012
 Map Phase: Pre-Review



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



Legend

- + Remonumented Section Corners
- + Miris Corners
- Stand Boundaries
- Proposed Special Conservation Areas
- SCA - Special Conservation Area
- SCA Removal
- Dedicated Special Conservation Areas
- Dedicated Management Areas
- Cold Water Streams
- Deer Wintering Areas

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 629 - Mixed non-forested wetland

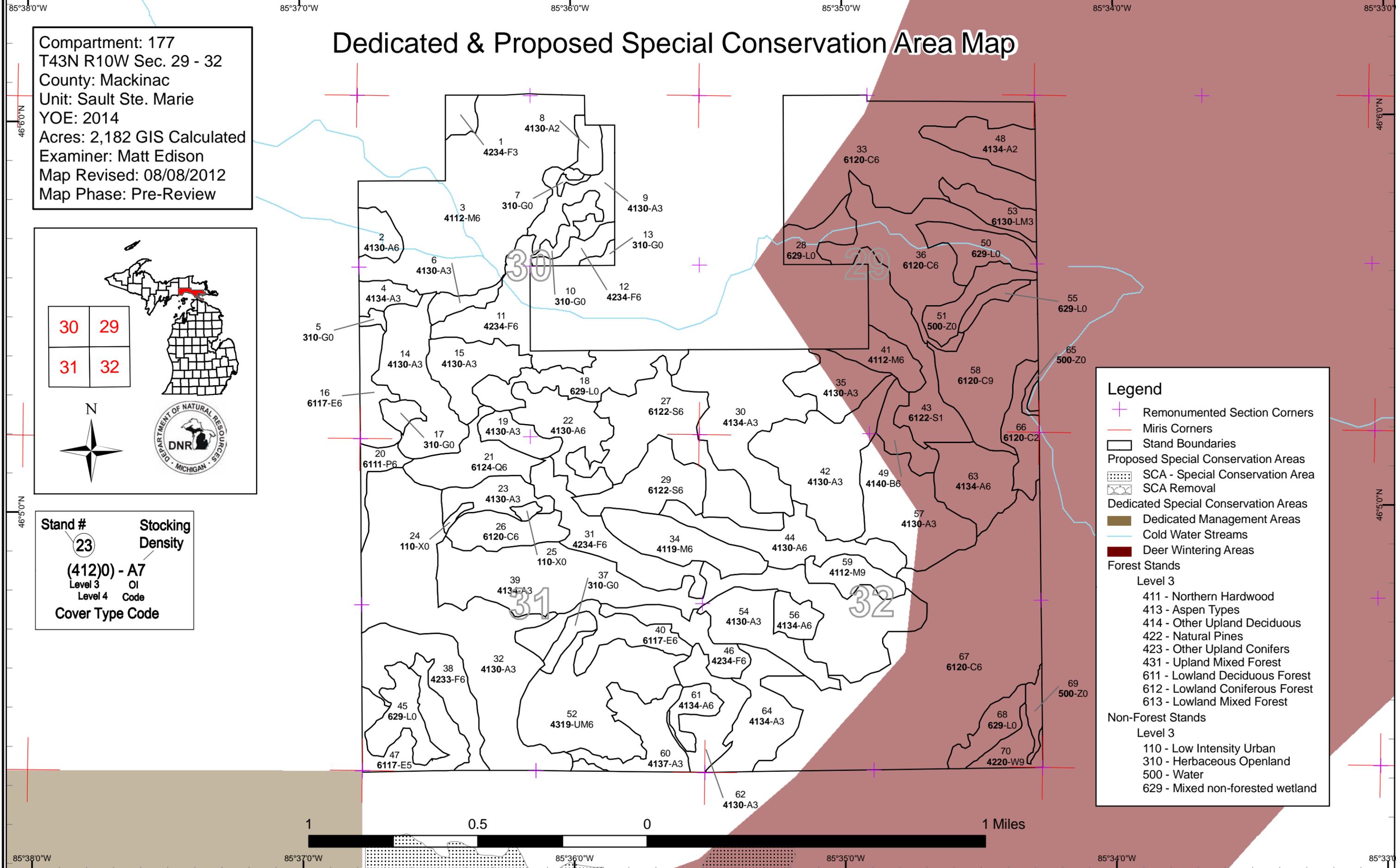
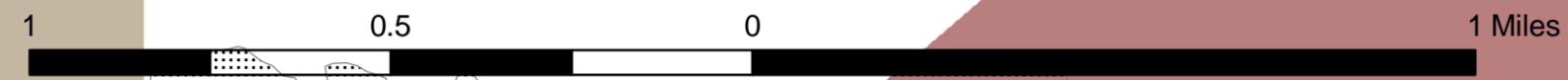


Table 1 – Total Acres by Cover Type and Age Class



	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	257	249	229	71	11	0	40	0	0	0	0	0	0	0	856
Cedar	0	0	0	0	0	0	0	0	20	19	124	323	0	0	487
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Aspen/Balsam Poplar	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	25	0	0	0	0	0	0	0	0	25
Lowland Deciduous	0	0	25	28	17	0	0	0	0	0	0	0	0	0	71
Lowland Mixed Forest	0	0	13	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Shrub	108	0	0	0	0	0	0	0	0	0	0	0	0	0	108
Lowland Spruce/Fir	0	0	37	0	0	0	62	29	0	0	0	0	0	0	128
Northern Hardwood	0	0	0	0	0	15	188	0	0	0	0	0	0	0	203
Paper Birch	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Upland Mixed Forest	0	0	0	0	0	0	69	0	0	0	0	0	0	0	69
Upland Spruce/Fir	0	0	79	0	60	0	0	0	0	0	0	0	0	0	139
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11
Total	416	249	383	107	87	40	297	75	49	19	124	323	11	0	2182



Table 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2014

Compartment 177
Total Compartment Acres: 2182

Acres by Treatment Type

Commercial Harvest - 232	Site Prep - 0	Tree Planting - 0	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
Aspen	40	0	0	0	0	0	0	40
Lowland Deciduous	17	0	0	0	0	0	0	17
Northern Hardwood	0	120	0	0	0	0	0	120
Paper Birch	13	0	0	0	0	0	0	13
Upland Mixed Forest	41	0	0	0	0	0	0	41
Total	112	120	0	0	0	0	0	232



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	45177003-Cut	106.3	4112 - Maple, Beech, Cherry Association	High Density Pole	67	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription:</u> Thin to approximately 80 basal area. Follow compleat marker guidelines. Leave any Hemlock or White pine. Ok to thin in sap collection are.</p> <p><u>Specs:</u> Mostly beech salvage in south portion. Leave 3-5 beech per acre and any healthy beech, some large wolffy and other wildlife trees, and maintain the species diversity within the stand. Leave some uncut pockets within the stand.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
16	45177016-Cut	17.1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	46	81-110	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<p><u>Prescription:</u> Clearcut with reserves following the retention guideline. Retain some paper birch and any white pine. Leave some mature retention patches</p> <p><u>Specs:</u> along edge near younger aspen.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is any mix of aspen, cherry, balsam, spruce, birch, white pine, hemlock, and maple.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
41	45177041-Cut	13.7	4112 - Maple, Beech, Cherry Association	High Density Pole	61	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription:</u> Thin hardwoods to approximately 80 basal area. Retain any hemlock, yellow birch, or white pine where possible. Mark according to compleat marker and retention guidelines. Also, leave cedar, winter cut, leave 3-5 beech per acre where present and all healthy beech, and no chipping of tops.</p> <p><u>Other Comments:</u></p> <p><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 and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										
49	45177049-Cut	13.0	4140 - Other Upland Deciduous	High Density Pole	71	141-170	Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
<p><u>Prescription:</u> Clearcut with reserves following the retention guideline. Retain some paper birch. Also if present, some white pine should be retained for seed trees and future snags. Leave any hemlock. Also, leave any cedar, winter cut, and no chipping of tops.</p> <p><u>Other Comments:</u></p> <p><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 and white pine.</p> <p><u>Proposed Start Date:</u> 10/01/2013</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
52	45177052-Cut	41.5	4319 - Mixed Upland Forest	High Density Pole	61	111-140	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription:</u> Clearcut with reserves following the retention guideline. Some representative species should be retained for seed trees and future snags. <u>Specs:</u> Harvesting South half of stand only this entry for age-class considerations. <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, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine. <u>Proposed Start Date:</u> 10/01/2013										

56	45177056-Cut	9.4	4134 - Aspen, Spruce/Fir	High Density Pole	62	141-170	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
<u>Prescription:</u> Clearcut with reserves following the retention guideline. Some representative species should be retained for seed trees and future snags. Leave any hemlock, or white pine uncut. <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, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine. <u>Proposed Start Date:</u> 10/01/2013										

63	45177063-Cut	30.9	4134 - Aspen, Spruce/Fir	High Density Pole	68	141-170	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
<u>Prescription:</u> Clearcut with reserves following the retention guideline. Some representative species should be retained for seed trees and future snags. Do not cut any cedar, hemlock, or white pine. Also, winter cut, no chipping of tops. <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, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine. <u>Proposed Start Date:</u> 10/01/2013										

**Total Treatment
Acreage Proposed: 231.9**

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



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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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#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Error

Limiting Factor and No
Treatment Reason

**Total Treatment
Acreage Proposed: 0**

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

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45104_OutOfY OE-Cut	19.8					Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin to around 120 Basal Area. Leave species diversity within the stand were present.									
<u>Specs:</u>									
<u>Other</u> This was a buffer left along the creek from a sale called Golden Eagle.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
<u>Proposed</u>									
<u>Start Date:</u> 10/01/2013									
45152062-Cut	5.5	4115 - Y.Birch, Hemlock NH	High Density Log	76		Harvest	Clearcut with Reserves	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal
<u>Prescription</u> Clear Cut the stand leaving all white pine, hemlock, cedar and yellow birch. Also, leave one healthy, mature red maple, black cherry, spruce, fir, paper birch or sugar maple in order to retain a representation of the stand.									
<u>Specs:</u>									
<u>Other</u> cut with adjacent compartment.									
<u>Comments:</u>									
<u>Next</u> Check for regeneration in 4-5 years. Acceptable regeneration will include red maple, yellow birch, hemlock, white pine, black cherry, sugar									
<u>Steps:</u> maple, aspen, ash, beech, and balsam fir.									
<u>Proposed</u>									
<u>Start Date:</u> 10/01/2011									
45157_OutOfY OE-Cut	0.7					Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin to around 120 Basal Area. Leave species diversity within the stand where present.									
<u>Specs:</u>									
<u>Other</u> cut with stand 1 in comp 158.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
<u>Proposed</u>									
<u>Start Date:</u> 10/01/2013									
45195_OutOfY OE-Cut	27.3					Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal
<u>Prescription</u> Cut all of the beech in the stand. Mark 2-3 beech to leave when cruising.									
<u>Specs:</u>									
<u>Other</u> Beech bark disease is affecting the beech within this stand.									
<u>Comments:</u>									
<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and									
<u>Steps:</u> paper birch, ironwood, balsam fir, white spruce and white pine.									
<u>Proposed</u>									
<u>Start Date:</u> 10/01/2013									
45202_OutOfY OE-Cut	449.6					Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal
<u>Prescription</u> Cut all beech in the stand. While cruising mark 2-3 beech per acre to leave.									
<u>Specs:</u>									
<u>Other</u> Beech bark disease is present in the stand.									
<u>Comments:</u>									
<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and									
<u>Steps:</u> paper birch, ironwood, balsam fir, white spruce and white pine.									
<u>Proposed</u>									
<u>Start Date:</u> 10/01/2012									

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Total Treatment Acreage Proposed:		502.9							

S t a n d	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 177	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
1	42340 - Upland Spruce/Fir	High Density Sapling	6.8	27			Cut in 1985. Thick jungle of mixed conifer wit aspen.
2	4130 - Aspen	High Density Pole	10.6	40	111-140		Small stand of medium diameter aspen mixed with mix of spruce and balsam.
3	4112 - Maple, Beech, Cherry Association	High Density Pole	143.7	67	81-110		Parts of stand were thinned lightly last entry. North and west part could be lightly thinned again. Part of stand is designated for sap collection.
4	4134 - Aspen, Spruce/Fir	High Density Sapling	8.3	26			Stand was cut in 1986. Regem looks nice.
6	4130 - Aspen	High Density Sapling	7.4	26			Stand was cut in 1986. Good looking aspen regen.
8	4130 - Aspen	Medium Density	7.4	9			Grass opening that was cut last entry, a lot of aspen and cherry brush coming in clumps.
9	4130 - Aspen	High Density Sapling	23.2	27			Stand was cut in 1985. Aspen regen with mix of spruce and balsam.
11	42340 - Upland Spruce/Fir	High Density Pole	34.2	26	81-110		Variable stand of small diameter balsam and spruce with mix of aspen regen. Very shallow bed rock...poor productivity. Rock River emerges from below ground in this stand.
12	42340 - Upland Spruce/Fir	High Density Pole	8.1	44	51-80		Previously listed as good quality Alvar.
14	4130 - Aspen	High Density Sapling	42.7	22			Stand of Aspen regen with mix of paper birch. Some overstory birch remains from previous harvest, but mostly dying out.
15	4130 - Aspen	High Density Sapling	26.7	13			Cut in 1999. Good aspen regen with mix of some birch.
16	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	17.1	46	81-110		Very wet in some areas with mix of lowland aspen and balsam and spruce mixed. Area was left uncut when adjacent stand was cut last time due to very wet conditions.
19	4130 - Aspen	High Density Sapling	11.8	9			Cut in 2003.
20	6111 - Lowland Balsam Poplar	High Density Pole	8.4	33	51-80		Very sparse lowland aspen with mix of spruce and balsam. Low productivity throughout. Not much harvest potential now, check in 10 years.
21	6124 - Lowland Spruce-Fir	High Density Pole	25.4	51	81-110		Very wet, variable stand of mixed cedar, conifer, and lowland deciduous types. Beavers have flooded out area near road. Tag alder where wettest, scatters throughout. Good amount of cedar, Save this stand for now as cut all around it.



S t a n d	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 177
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014
						General Comments:
22	4130 - Aspen	High Density Pole	31.6	23		Stand was cut in 1989. Aspen regen with mix of spruce and balsam.
23	4130 - Aspen	High Density Sapling	16.4	23		Stand was cut in 1989. Mix of Aspen regen with spruce and balsam.
26	6120 - Lowland Cedar	High Density Pole	20.3	83	111-140	Dense stand of small diameter cedar mixed with some paper birch and balsam and spruce. Not much harvest potential here. Best left for cover.
27	6122 - Black Spruce	High Density Pole	62.3	74	51-80	Stand of small diameter black spruce mixed with balsam and white spruce where slightly higher ground. A few scattered cedar throughout. Wet ground, low productivity.
29	6122 - Black Spruce	High Density Pole	28.9	83	51-80	Very wet ground. Small diameter, poor quality black spruce, mixed with balsam. Some birch on high areas and fringed.
30	4134 - Aspen, Spruce/Fir	High Density Sapling	70.6	33	111-140	Stand was cut in 1979. Still somewhat small diameter. Check in 10 years.
31	42340 - Upland Spruce/Fir	High Density Pole	32.9	44	111-140	Stand of variable mix of spruce and balsam with some areas of cedar mixed in. Aspen in places with some birch also. Stand is narrow and runs along both sides of Big Knob road to campground. Stand has value as visual buffer, revisit in 10 years.
32	4130 - Aspen	High Density Sapling	125.8	9		
33	6120 - Lowland Cedar	High Density Pole	124.4	102		Cedar stand with variable density a composition in places. Very wet in some areas. Some mix of paper birch and low quality red maple scattered. Not much even merchantable here.
34	4119 - Mixed Northern Hardwoods	High Density Pole	30.3	64	81-110	Maple stand of poles. Mostly sugar maple, but a few red. Good mix of birch and aspen in some areas. Check in ten years.
35	4130 - Aspen	High Density Sapling	22.0	16		Stand was cut in 1996. Good looking aspen regen.
36	6120 - Lowland Cedar	High Density Pole	57.0	112		Stand of wet ground cedar mixed with balsam, some areas of tag alder where stand is wettest. Rock river corridor passes through stand. Good buffer stand with little merchantability.
38	42330 - Upland Fir	High Density Pole	37.8	29	141-170	very dense stand of spruce and balsam with some paper birch. Small diameter at this time, just makes pole size. check in 10 years.
39	4134 - Aspen, Spruce/Fir	High Density Sapling	125.2	13		Good looking aspen regen with mix of spruce and balsam. Cut in 1997-99.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	25.2	29	1-50	Stand is sparse aspen and mix of conifer. Very low ground and poor quality trees. Not much merchantability here.
41	4112 - Maple, Beech, Cherry Association	High Density Pole	13.7	61	111-140	Nice stand of good quality maples. A few scattered yellow birch.
42	4130 - Aspen	High Density Sapling	59.4	3		Stand was cut in 2009. Good looking aspen regen.
43	6122 - Black Spruce	Low Density Sapling	36.6	25		Very wet with very sparse lowland conifer mix.
44	4130 - Aspen	High Density Pole	36.2	23		Stand was cut in 1979. Mixed regen looks good. Tall aspen in most places.
46	42340 - Upland Spruce/Fir	High Density Pole	18.8	40		Very dense stand of sapling/pole balsam and spruce.
47	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	28.3	30		Wet stand of small diameter, poor quality aspen mix. Fringe of wetland area. Little merchantability here.
48	4134 - Aspen, Spruce/Fir	Medium Density	21.5	27		Stand was cut in 1985. Regeneration is mix of aspen with spruce and balsam. Wet areas have less regen. Poorer site, trees not as big as expected.
49	4140 - Other Upland Deciduous	High Density Pole	13.0	71	141-170	Nice stand of paper birch with thick understory of conifer. Held stand for age class last entry. Harvest with adjacent stand this entry.
52	4319 - Mixed Upland Forest	High Density Pole	69.3	61	111-140	Large stand of variable composition and quality. Large areas of big aspen and balsam. Some lower areas with smaller diameters.
53	6130 - Fir, Aspen, Maple	High Density Sapling	13.4	27		Stand was cut in 1985. Regeneration is mix of aspen with spruce and balsam. Poor site and trees are small diameter. Some pretty wet ground in some areas.
54	4130 - Aspen	High Density Sapling	28.7	3		Aspen regen with mix of spruce and balsam. Cut in 2009.
56	4134 - Aspen, Spruce/Fir	High Density Pole	9.4	62	141-170	Stand was left uncut during last entry. Can be wet ground. Harvest this piece this entry.
57	4130 - Aspen	High Density Sapling	48.9	16		Cut in '96. Good looking aspen regen.
58	6120 - Lowland Cedar	High Density Log	55.1	115		Variable stand of small diameter cedar mixed with some areas of spruce and balsam. Very wet in some areas with low basal areas and poor quality.
59	4112 - Maple, Beech, Cherry Association	High Density Log	14.7	58	81-110	Stand was thinned in last 15 years. Still low avg. ba. Hold for ten years.

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Sault Ste. Marie Mgt. Unit

5 – Forested Stands

Compartment: 177
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	4137 - Aspen, Birch	High Density Sapling	26.2	10		Stand is mix of aspen regen with residual paper birch that remains. Looks good so far, some birch dying out. Cut in 2002
61	4134 - Aspen, Spruce/Fir	High Density Pole	9.2	26	111-140	Stand was cut in 1986. Stand is good looking aspen mixed with some balsam.
62	4130 - Aspen	High Density Sapling	23.7	3		Nice aspen regen with mix of spruce and balsam. Cut in 2009.
63	4134 - Aspen, Spruce/Fir	High Density Pole	30.9	68	141-170	Stand of large aspen, spruce and fir. There are scattered cedar pockets. Time to harvest this stand
64	4134 - Aspen, Spruce/Fir	High Density Sapling	32.3	20		Aspen regen with mix of spruce and balsam. Cut in 1992.
66	6120 - Lowland Cedar	Medium Density	18.9	95		Very wet conditions in this stand. Poor productivity throughout due to water. Short, sparse, poor quality cedar.
67	6120 - Lowland Cedar	High Density Pole	211.1	115		Stand is large and variable in composition and ground. Very wet in some areas with tag alder and lower basal areas. Overall, it is cedar mixed with balsam, spruce, paper birch, and some mixed hardwoods. Lowland type with good wildlife qualities. No real merchantability in this stand.
70	42200 - Natural White Pine	High Density Log	10.9	151	111-140	Stand was thinned last entry as part of sale in adjacent compartment. Nice ridge of natural Red and white pine supercanopy. Some natural regeneration coming in nicely.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	310 - Herbaceous Openland	2.0	N/A	Unspecified	
7	310 - Herbaceous Openland	1.3	N/A	Unspecified	
10	310 - Herbaceous Openland	8.3	N/A	Unspecified	
13	310 - Herbaceous Openland	2.4	N/A	Unspecified	
17	310 - Herbaceous Openland	5.3	N/A	Unspecified	
18	629 - Mixed non-forested wetland	33.3	N/A	Unspecified	
24	11 - Low Intensity Urban	1.4	N/A	Unspecified	
25	11 - Low Intensity Urban	1.9	N/A	Unspecified	
28	629 - Mixed non-forested wetland	14.2	N/A	Unspecified	
37	310 - Herbaceous Openland	6.4	N/A	Unspecified	
45	629 - Mixed non-forested wetland	20.2	N/A	Unspecified	
50	629 - Mixed non-forested wetland	20.4	N/A	Unspecified	
51	50 - Water	15.4	N/A	Unspecified	
55	629 - Mixed non-forested wetland	5.5	N/A	Unspecified	
65	50 - Water	1.6	N/A	Unspecified	
68	629 - Mixed non-forested wetland	14.1	N/A	Unspecified	
69	50 - Water	5.5	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 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.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
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.