



Sault Forest Management Unit
Compartment Review Presentation
Compartment #121 Entry Year: 2013
Compartment Acreage: 1,838 County: Mackinac

Revision Date: July 20, 2011

Stand Examiner: Matthew Edison

Legal Description: T43N R7W SECTIONS 26, 35, 36

RMU (if applicable): Mackinac Mix

Management Goals: This compartment consists of sandy upland areas and large areas of lowland. The upland areas of this compartment consist primarily of aspen, red pine and spruce plantations, and grassy openings. This entry period, proposed management includes final harvest of some previously delayed mature aspen mix stands. The red pine plantations are to be thinned to release tight crowns and the spruce plantations are to be clear-cut with reserves and allowed to convert to aspen, which is already coming in. All management in this compartment will adhere to work instructions.

Soil and Topography: Lowland areas consist of mostly Markey-Carbondale muck. The wettest areas are aquents and histosols, ponded. Upland areas of this compartment consist of Wallace sands (0-6%) slope, Paquin-Finch sands (0-6%) slope, and small pockets of Pullup fine sands (6-15%) slope. Compartment terrain is flat to gently rolling areas consisting of low wetland types and sandy ridges and upland ground moraine.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment has two 40-acre parcels within the compartment boundary. These parcels are located in the center and north of Section 26. The remainder of the compartment is state ownership. There is one private 40-acre parcel bordering the compartment in the south.

Unique, Natural Features: Potential for Osprey, Eagle, Merlin, and Great Blue Heron Rookery. Potential for wood turtle in Paquin Creek. Potential for threatened and special concern plants in the cedar swamps. Poor Fen records to the east. Potential for Poor Fen in Section 36.

Archeological, Historical, and Cultural Features: No evidence of any features in the compartment

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: Fisheries Values Good-to-Marginal. Pacquin Creek and even the little portion of the Cut River are classified SQCW, supporting native trout. There is no active management, but an effort should be made to convert the stream corridors to coniferous to discourage beaver activity.

Wildlife Habitat Considerations: Located approximately a mile north of Epoufette, this compartment lies within the St. Ignace subsection of the Niagaran Escarpment and Lake Plain. The southwestern side of the compartment contains a mix of aspen, northern hardwoods, and planted spruce and red pine stands. Uplands transition to wetlands to the north and east, resulting in cedar swamp on both ends. Pacquin Creek flows through the northern part of the compartment, while the Cut River is located on the east end. Aspen stands range in age from young regeneration to mature stands. Hardwoods have been managed to produce multiple age classes. However, beech bark disease has caused high mortality to beech.

Aspen stands will continue to be managed for age class diversity, providing habitat for deer, ruffed grouse, American woodcock, and other species dependent on early successional stands. The plantation spruce will be harvested, allowing the aspen and other natural regeneration beneath to replace this stand and provide additional young growth for wildlife. Age class, structural, and species diversity will continue to be promoted in northern hardwoods. Healthy beech will be retained where it occurs. Snags and coarse woody debris will be retained to provide habitat for cavity nesters and amphibians. The integrity of lowland conifer stands and other wetlands will be maintained. Other species benefitting from this management include bobcat, wolf, coyote, snowshoe hare, marten, bald eagles, and pileated woodpeckers.

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

Vehicle Access: Vehicle access into this compartment is limited. Hiawatha Trail runs North/South along the West boundary of the compartment. Hiawatha Trail is a paved county road (all season Rd.). Prout Road runs East/West and represents the Southern boundary of the compartment. Prout Road is DNR maintained and is classified as a good quality dirt road. There are two timber bridges spanning North branches of the Cut River along Prout Road. These bridges are rated for logging/ truck traffic. During the winter a portion of Prout road is part of groomed snowmobile trail system. The interior of the compartment is only accessible by two main two-tracks originating from Hiawatha Trail. Any new roads created during treatments will be closed following use.

Survey Needs: None needed this entry period.

Recreational Facilities and Opportunities: Hunting is the dominant recreational activity in this compartment. Habitat provides for excellent deer, grouse, and small game hunting. A Snowmobile trail runs along the southern boundary of the compartment (Prout Road).

Fire Protection: There is potential for fire activity in this compartment. The areas of pine and grassy openings are at most risk. Besides natural ignition sources (i.e., lightning), heavy recreational use during hunting seasons present possible ignition sources. Fires in these sandy soils would not present any extraordinary mop-up problems. There is good access into the pine and grassy areas via two-track. Paquin Creek and Cut River are readily available water sources. Any fires occurring in the remaining lowland areas of this compartment would be less intense, but would present difficult suppression and mop-up conditions due to lack of accessibility, equipment limitations and deeper burning in the heavy muck soils.

Additional Compartment Information: None

➤ **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**

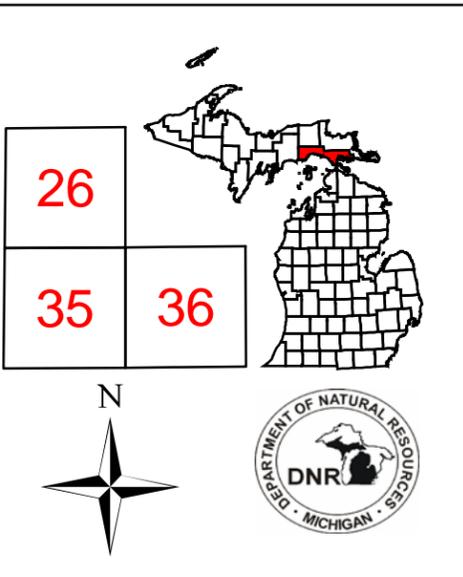
➤ **The following information is displayed, where pertinent, on the attached compartment maps:**

- ◆ **Base feature information, stand boundaries, cover types, and numbers**
- ◆ **Proposed treatments**
- ◆ **Details on the road access system**

Cover Type & Treatment Map

Compartment 121
 T43N, R07W, Sec. 26, 35, 36
 County: Mackinac
 Unit: Sault Ste Marie
 YOE: 2013
 Acres: 1,838 GIS Calculated
 Stand Examiner: Matthew Edison
 Map Revised: 8/15/2011
 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
- Pipelines
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Snowmobile Trail
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)

Forest Stands

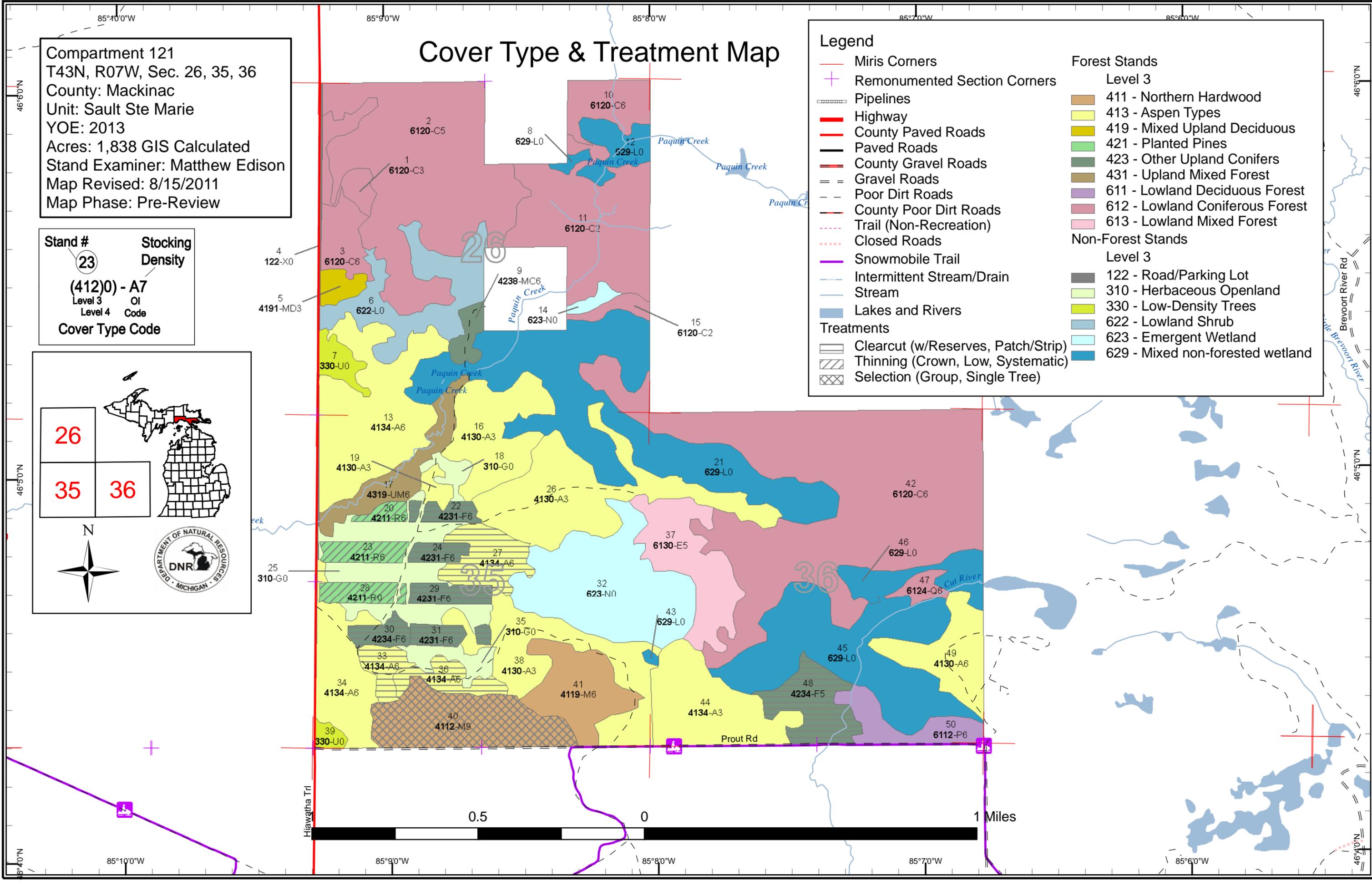
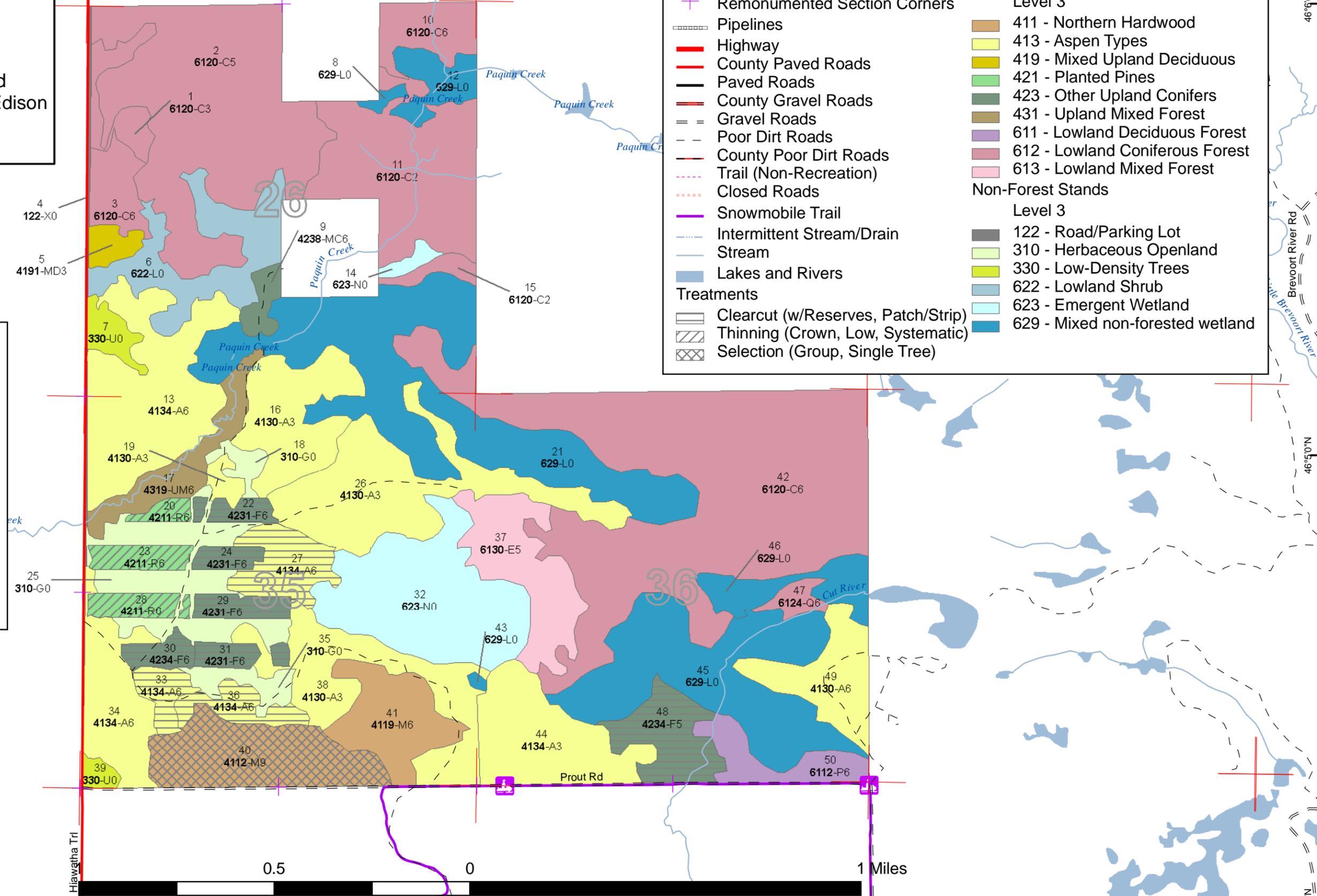
Level 3

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

Non-Forest Stands

Level 3

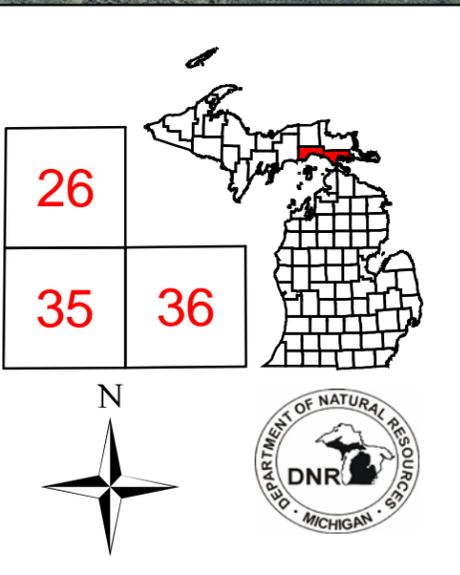
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland



Stand Boundary Map

Compartment 121
 T43N, R07W, Sec. 26, 35, 36
 County: Mackinac
 Unit: Sault Ste Marie
 YOE: 2013
 Acres: 1,838 GIS Calculated
 Stand Examiner: Matthew Edison
 Map Revised: 8/15/2011
 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
- sau121_pipelines
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Snowmobile Trail
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
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Non-Forest Stands

Level 3

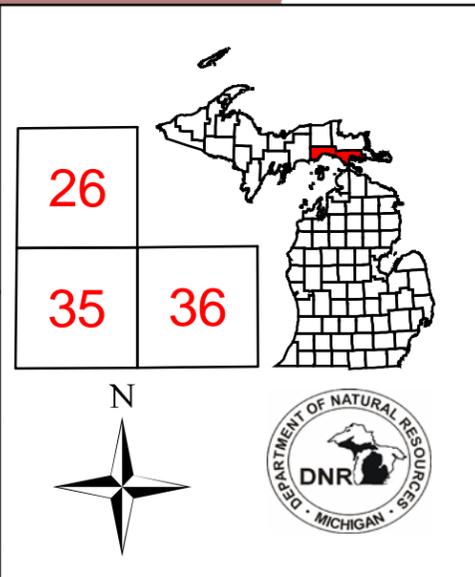
- 122 - Road/Parking Lot
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- 622 - Lowland Shrub
- 623 - Emergent Wetland
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1 0.5 0 1 Miles

Dedicated & Proposed Special Conservation Area Map

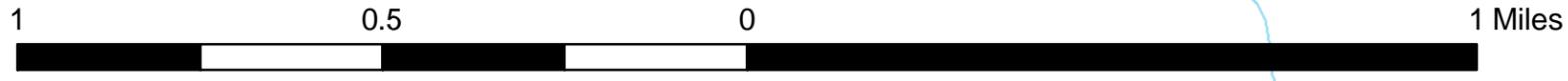
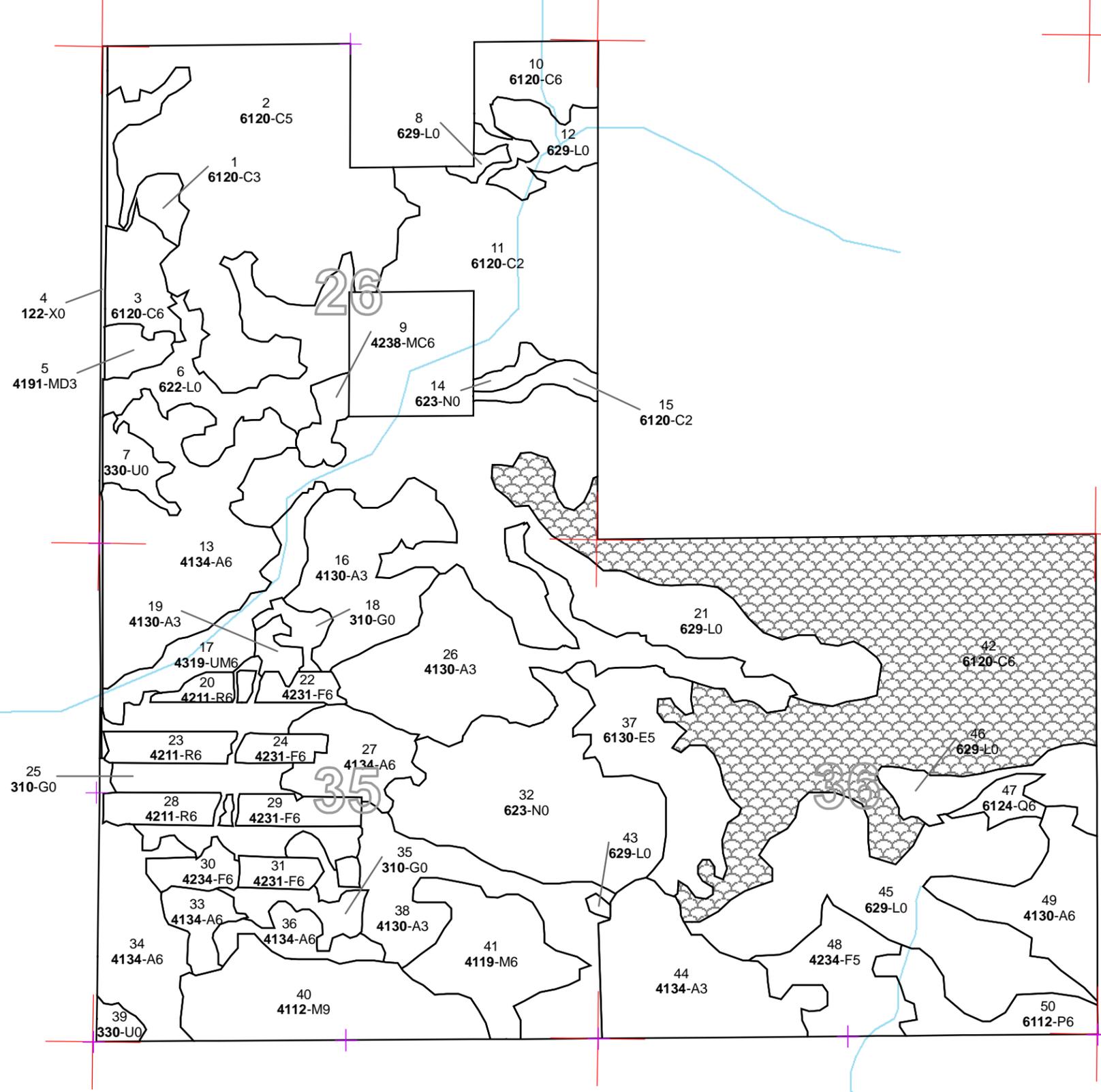
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 T43N, R07W, Sec. 26, 35, 36
 County: Mackinac
 Unit: Sault Ste Marie
 YOE: 2013
 Acres: 1,838 GIS Calculated
 Stand Examiner: Matthew Edison
 Map Revised: 8/15/2011
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (4120) - 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
- Cold Water Streams
- Deer Wintering Areas
- Forest Stands
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands
- Level 3
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland



85°10'0"W 85°9'0"W 85°8'0"W 85°7'0"W 85°6'0"W

46°6'0"N

46°5'0"N

46°6'0"N

46°5'0"N

85°10'0"W 85°9'0"W 85°8'0"W 85°7'0"W 85°6'0"W

46°4'0"N

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 +		Unre/en Age
Aspen	0	47	142	214	0	0	47	0	0	0	0	0	0	0	0	450
Cedar	0	0	0	0	0	0	0	0	269	37	0	262	0	0	0	568
Herbaceous Openland	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Mixed Forest	0	0	0	0	0	47	0	0	0	0	0	0	0	0	0	47
Lowland Shrub	338	0	0	0	0	0	0	0	0	0	0	0	0	0	0	338
Marsh	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Mixed Upland Deciduous	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	0	0	0	0	0	0	39	56	0	0	0	0	0	0	95
Red Pine	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	25
Upland Conifers	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	26
Upland Spruce/Fir	0	0	0	0	0	13	56	0	0	0	0	0	0	0	0	69
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	513	47	142	221	33	83	136	39	325	37	0	262	0	0	0	1838



Table 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2013

Compartment 121
Total Compartment Acres: 1838

Acres by Treatment Type

Commercial Harvest - 183	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 14	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen	47	0	0	0	0	0	47
Northern Hardwood	0	56	0	0	0	0	56
Red Pine	0	0	0	0	25	0	25
Upland Spruce/Fir	69	0	0	0	0	0	69
Total	117	56	0	0	25	0	197



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20	45121020-Cut	4.4	42110 - Planted Red Pine	High Density Sapling	50	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Second thin to release tight crown spacing. Thin to an estimated 120-140 basal area range.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
22	45121022-Cut	7.1	42310 - Planted Spruce	High Density Pole	49	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clear cut with reserves. Leave some scattered spruce. Allow t regenerat naturally to aspen mix.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u> Natural aspen regeneration is already encroaching. Allow for natural regeneration of aspen mix.									
<u>Next</u>									
<u>Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is any mix of aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.									
23	45121023-Cut	10.2	42110 - Planted Red Pine	High Density Pole	50	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Second thin to release tight crown spacing. Thin to an estimated 120-140 basal area range.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
24	45121024-Cut	6.3	42310 - Planted Spruce	High Density Pole	49	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clear cut with reserves. Leave some scattered spruce. Allow t regenerat naturally to aspen mix.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u> Natural aspen regeneration is already encroaching. Allow for natural regeneration of aspen mix.									
<u>Next</u>									
<u>Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is any mix of aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.									
27	45121027-Cut	23.9	4134 - Aspen, Spruce/Fir	High Density Pole	59	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Clear cut with reserves. Leave all WP and any stagglers hemlock.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is any mix of aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	45121028-Cut	10.1	42110 - Planted Red Pine	High Density Pole	50	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Second thin to release tight crown spacing. Thin to an estimated 120-140 basal area range.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
29	45121029-Cut	9.7	42310 - Planted Spruce	High Density Pole	50	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clear cut with reserves. Leave some scattered spruce. Allow t regenerat naturally to aspen mix.									
<u>Specs:</u>									
<u>Other</u> Natural aspen regeneration is already encroaching. Allow for natural regeneration of aspen mix.									
<u>Comments:</u>									
<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is any mix of aspen, maple, cherry, cedar,									
<u>Steps:</u> yellow and paper birch, balsam fir, white spruce, black spruce and white pine.									
30	45121030-Cut	8.1	42340 - Upland Spruce/Fir	High Density Pole	50	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clear cut with reserves. Leave some scattered spruce. Allow t regenerat naturally to aspen mix.									
<u>Specs:</u>									
<u>Other</u> Natural aspen regeneration is already encroaching. Allow for natural regeneration of aspen mix.									
<u>Comments:</u>									
<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is any mix of aspen, maple, cherry, cedar,									
<u>Steps:</u> yellow and paper birch, balsam fir, white spruce, black spruce and white pine.									
31	45121031-Cut	8.1	42310 - Planted Spruce	High Density Pole	50	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clear cut with reserves. Leave some scattered spruce. Allow t regenerat naturally to aspen mix.									
<u>Specs:</u>									
<u>Other</u> Natural aspen regeneration is already encroaching. Allow for natural regeneration of aspen mix.									
<u>Comments:</u>									
<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is any mix of aspen, maple, cherry, cedar,									
<u>Steps:</u> yellow and paper birch, balsam fir, white spruce, black spruce and white pine.									
33	45121033-Cut	10.2	4134 - Aspen, Spruce/Fir	High Density Pole	50	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clear cut with reserves. Leave representative species and all white pine and hemlock if present.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is any mix of aspen, maple, cherry, cedar,									
<u>Steps:</u> yellow and paper birch, balsam fir, white spruce, black spruce and white pine.									



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36	45121036-Cut	13.0	4134 - Aspen, Spruce/Fir	High Density Pole	51	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal

Prescription Clear cut with reserves. Leave any white pine or hemlock if present in the stand.

Specs:

Other

Comments:

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

40	45121040-Cut	56.1	4112 - Maple, Beech, Cherry Association	High Density Log	79	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal
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Prescription Mark stand to 80 to 90 Basal Area. Retain some live beech with the smooth bark if present and wildlife trees. Thin to promote any existing yellow

Specs: birch. Do not cut any hemlock or white pine. WLD: Leave all conifers and 2-5 beech per acre (leave any healthy trees).

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.

48	45121048-Cut	30.1	42340 - Upland Spruce/Fir	Medium Density Pole	57	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Clear cut with reserves. Leave some paper birch and all white pine. Buffering the two intermittent streams that border the stand on both sides.

Specs: Summer cut to promote scarifying in hopes of recruiting jack pine regeneration. Buffer creek by 50'.

Other

Sale will reflect actual area allowable for operation.

Comments:

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

**Total Treatment
Acreage Proposed: 197.5**

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
45158_OutOfY OE-Cut	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.								
NF_45134015- NonFor	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>								
Total Treatment Acreage Proposed:		7.2						



Stand	Sault Ste. Marie Mgt. Unit			5 – Forested Stands		Compartment: 121	Year of Entry: 2013
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	6120 - Lowland Cedar	High Density Sapling	15.3	80	141-170	Very thick, small cedar, tamarack mix with a lot of tag alder. Very wet.	
2	6120 - Lowland Cedar	Medium Density Pole	157.8	108	51-80	Very small diameter cedar for age. Thick tag alder in openings. Very wet ground. A few scattered tamarack and poor nonmerchantable birch on higher clumps.	
3	6120 - Lowland Cedar	High Density Pole	17.6	101	141-170	Very low ground cedar, very thick, but small diameter. Hard to even walk into. Scattered small diameter birch in higher clumps. Some tamarack. Tag alder where open.	
5	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	7.3	31		Stand was previously harvested as two separate stands. Pretty much a mix of everything with leaning toward aspen/maple depending on where u stand. No merchantability yet, check next entry.	
9	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	8.0	51	81-110	Small, narrow ridge of small diameter balsam, hemlock, birch and cedar. very little operability. Leave for added growth potential.....	
10	6120 - Lowland Cedar	High Density Pole	22.1	81	81-110	Very poor quality stand of small diameter cedar mixed with some tamarack. Tag alder all through stand. Very wet and virtually unmerchantable. A scrubby black spruce here and there.	
11	6120 - Lowland Cedar	Medium Density	86.3	100		Very wet, sparse, non-merchantable cedar. No mans land. A lot of tag alder and some open water areas, not very nice.	
13	4134 - Aspen, Spruce/Fir	High Density Pole	82.4	25	111-140	Stand was cut in 1986. Aspen regen with heavy balsam, spruce, some red maple, and residual white pine scattered throughout. check in 10 years.	
15	6120 - Lowland Cedar	Medium Density	6.3	70		Inaccessible, surrounded by wetland. Samevas nearby cedar.	
16	4130 - Aspen	High Density Sapling	46.7	7		Harvested in 2004	
17	4319 - Mixed Upland Forest	High Density Pole	26.1	37	111-140	Narrow stand that is corridor for Paquin creek. Scattered large, poorly formed white pine with mix of small diameter aspen and spruce/fir underneath.	
19	4130 - Aspen	High Density Sapling	5.0	16		Harvested in 95.	
20	42110 - Planted Red Pine	High Density Pole	4.4	50	111-140	Third row thinned last entry. Second thin to release tight crowns.	
22	42310 - Planted Spruce	High Density Pole	7.1	49	111-140	Pole sized spruce thinned last entry. Final harvest with adjacent aspen stand and let it convert to aspen. Good aspen regen surrounding stand.	

S t a n d	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 121	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
23	42110 - Planted Red Pine	High Density Pole	10.2	50	111-140		Third row thinned last entry. Has really grown in height. Second thin to release tight crowns.
24	42310 - Planted Spruce	High Density Pole	6.3	49	111-140		Final harvest with other similar stands and let convert to aspen.
26	4130 - Aspen	High Density Sapling	81.0	16			A3, harvested in 95. 15-20ft tall.
27	4134 - Aspen, Spruce/Fir	High Density Pole	23.9	59	111-140		Stand of mature aspen with mix of white pine, red maple, and balsam and some -paper birch.
28	42110 - Planted Red Pine	High Density Pole	10.1	50	141-170		Third row thinned last entry. Second thin to release tight crowns.
29	42310 - Planted Spruce	High Density Pole	9.7	50	141-170		Third row thinned last entry.
30	42340 - Upland Spruce/Fir	High Density Pole	8.1	50	171-200		Failed portion of spruce plantation. Mix of spruce,balsam,aspen.
31	42310 - Planted Spruce	High Density Pole	8.1	50	111-140		Spruce plantation thinned last entry.
33	4134 - Aspen, Spruce/Fir	High Density Pole	10.2	50	141-170		Mix of aspen, spruce fir.
34	4134 - Aspen, Spruce/Fir	High Density Pole	39.1	29			Good aspen regeneration that is borderline merchantable. Hood for ten years and look at potential harvest then. Some spruce/fir and cherry mixed in, thick in a few spots.
36	4134 - Aspen, Spruce/Fir	High Density Pole	13.0	51	141-170		Stand of mixed mature aspen with smaller diameter. Variable stand.
37	6130 - Fir, Aspen, Maple	Medium Density Pole	47.3	45	51-80		Small diameter aspen /spruce with lots of tag alder inlow areas. Stand is on island ridge in wetland. Not very merchantable. Not included in timber sale last entry due to poor access and too wet.
38	4130 - Aspen	High Density Sapling	58.5	20			
40	4112 - Maple, Beech, Cherry Association	High Density Log	56.1	79	81-110		Good quality sugar maple stand that was thinned two entry periods ago. There is a high amount of beech lost due to bbd. The average ba throughout the stand is subsequently near regultion. When what beech remains is ultimately gone stand will have beenself thinned again. Could potentially mark very lightly in some areas, to remove some over mature maple, but that would be the only extent of possible treatment. Healthy yellow birch and hemlock scattered throughout
41	4119 - Mixed Northern Hardwoods	High Density Pole	39.0	60	81-110		stand was harvested in.....sale..... . Hemlock and white pine scattered throughout poorer quality red/sugar maple mix. Aspen filling in the more open areas. Beech that remains standing is all dead.....bbd.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	6120 - Lowland Cedar	High Density Pole	262.6	77	51-80	Stand is mix of cedar, black spruce, and tag alder. Very wet in lowest areas and sparse trees. non-merchantable. Low productivity. Mosquito heaven!
44	4134 - Aspen, Spruce/Fir	High Density Sapling	55.6	10		Cut in.....sale.....96mix. Aspen regen is good, 10-15 ft. Large dia. wp are scattered around stand. Some areas are low ground.
47	6124 - Lowland Spruce- Fir	High Density Pole	6.6	20	81-110	Stand is part of previous A2 that is regenerating with heavy balsam spruce vs. aspen. Much wetter ground than remainder of stand. Aspen is there just less significant.
48	42340 - Upland Spruce/Fir	Medium Density Pole	30.1	57	81-110	Mix of conifers with, birch, red maple, aspen, scattered, some jack pine in here.
49	4130 - Aspen	High Density Pole	34.5	20	81-110	Aspen regen with mix of spruce and balsam mixed. Tag alder where stand is wetter on fringe. Good looking aspen regen.
50	6112 - Lowland Aspen	High Density Pole	21.9	42	111-140	VARIABLE.....Stand is complete jumbled mix, varying every 50 ft. from aspen regen., 15-20ft., to scattered mature aspen with spruce/fir, to white pine with paper birch. Tag alder throughout. Ground gradates from lowland holding water to small ridge between wetlands. Not much merchantability here. Best use is as is/ habitat.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	122 - Road/Parking Lot	6.5	No	Low (NonForested)	Borgstrom Rd.
6	6220 - Alder/willow	49.0	No	Low (NonForested)	
7	3302 - Low Density Conifer Trees	9.5	No	Low (NonForested)	Sand pit in stand.
8	629 - Mixed non-forested wetland	2.4	No	Low (NonForested)	
12	629 - Mixed non-forested wetland	16.5	No	Low (NonForested)	
14	6239 - Mixed Emergent Wetland	4.1	No	Low (NonForested)	
18	3102 - Grass	6.3	No	Low (NonForested)	
21	629 - Mixed non-forested wetland	146.6	No	Low (NonForested)	
25	3102 - Grass	44.6	No	Low (NonForested)	
32	6239 - Mixed Emergent Wetland	89.8	No	Low (NonForested)	
35	3102 - Grass	10.6	No	Low (NonForested)	Stand swapped from Forested to Non-Forested.
39	3303 - Mixed Low Density Trees	4.0	No	Low (NonForested)	
43	629 - Mixed non-forested wetland	1.0	No	Low (NonForested)	
45	629 - Mixed non-forested wetland	100.0	No	Low (NonForested)	
46	629 - Mixed non-forested wetland	22.3	No	Low (NonForested)	



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
42	SCA Removal	45121042	262.6	Stand is a large cedar stand that is surrounded and part of larger complex across adjoining compartments. The stand is not unique to the surrounding area and not part of mapped deer yard. Stand does not meet criteria for old growth. Recommend removal from proposed old growth.



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.