



**Sault Ste Marie Forest Management Unit**  
**Compartment Review Presentation**  
**Compartment # 54**                      **Entry Year: 2014**  
**Compartment Acreage: 1,210**        **County: Chippewa**

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**Revision Date:** 6-19-2012

**Stand Examiner:** Jason Caron

**Legal Description:** T45N- R1E Secs. 25,26,35,36

Bruce Township

**RMU (if applicable):**

**Management Goals:** Past management has focused on the regeneration of aspen. This compartment is a popular area for hunters due to past management.

**Soil and Topography:** This glacial outwash area is nearly flat on the Northwest and then drops off abruptly in the Southeast where mucks and wet clays are found. An apparent anomaly to the flatness is an area locally known as "The Mountain", which is an abrupt hill that consists of a mix of sand, cobble stone and clay. The mountain is located in the NWNW of section 36.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Private holdings are located on all sides of the compartment except to the South, this is state land.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** "The Mountain".

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** None known at this time.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:** Walleye pond potential? Will walk the compartment with Caron this fall.

**Wildlife Habitat Considerations:** This compartment is located in the Munuscong Wildlife Management Area north of Munuscong Bay. It consists of a mix of upland and lowland types. A long grassy opening exists in uplands on the northwestern side. Aspen is dominant around that and extending to the northeast, providing habitat for white-tailed deer, ruffed grouse and American woodcock. Further south and east, lowland forested and scrub/shrub cover is dominant. Tamarack, balsam poplar, black spruce, alder, and willow are common, providing habitats used by white-tailed deer, snowshoe hare, and American woodcock. Wildlife objectives include retaining important mast producing species such as oak and hazelnut where present, maintaining the opening, and encouraging some young forest regeneration while allowing other areas to mature. Species benefitting from this management include deer, hare, ruffed grouse, and woodcock.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of coarse-textured glacial till and lacustrine (lake) clay, silt, sand and gravel. The glacial drift thickness varies between 100 and 200 feet. The Ordovician Trenton and Black River Formations subcrop below the glacial drift. These formations are quarried for stone/dolomite. The compartment has a gravel pit located in Section 25

and potential appears to be good in the central upland areas. There is no economic oil and gas production in the UP.

**Vehicle Access:** Good access within the compartment.

**Survey Needs:** No surveys needed at this time.

**Recreational Facilities and Opportunities:** Mostly hunting and gathering occurs within this compartment. No ORV trails exist within the compartment.

**Fire Protection:** Access into this compartment for fire purposes would be good within the Southern and central part of the compartment. Access within the L types would be difficult due to no roads and wet soils.

**Additional Compartment Information:**

- **Cover Type details, Proposed Treatments, and Stand listings are listed in the attached reports:**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  - ◆ **Stand Listing – Forested**
  - ◆ **Stand Listing – Non Forested**
  - ◆ **Special Conservation Area (SCA) Details**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand numbers, cover types**
  - ◆ **Proposed treatments**
  - ◆ **Proposed road access system**
  - ◆ **SCA – Special Conservation Areas**

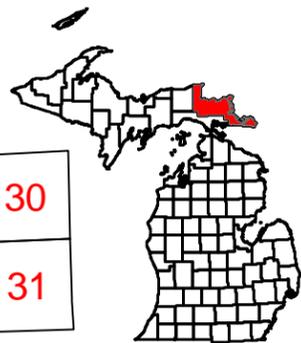


# Stand Boundary Map

Compartment: 054  
 T45N R01E Sec. 25, 26, 35, 36  
 T45N R02E Sec. 30 31  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 YOY: 2014  
 Acres: 1,210 GIS Calculated  
 Examiner: Jason Caron  
 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**

26	25	30
35	36	31



### Legend

- Remonumented Section Corners
- Miris Corners
- Gate
- PLSS Corner
- Structures
- 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

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

### Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 622 - Lowland Shrub

26

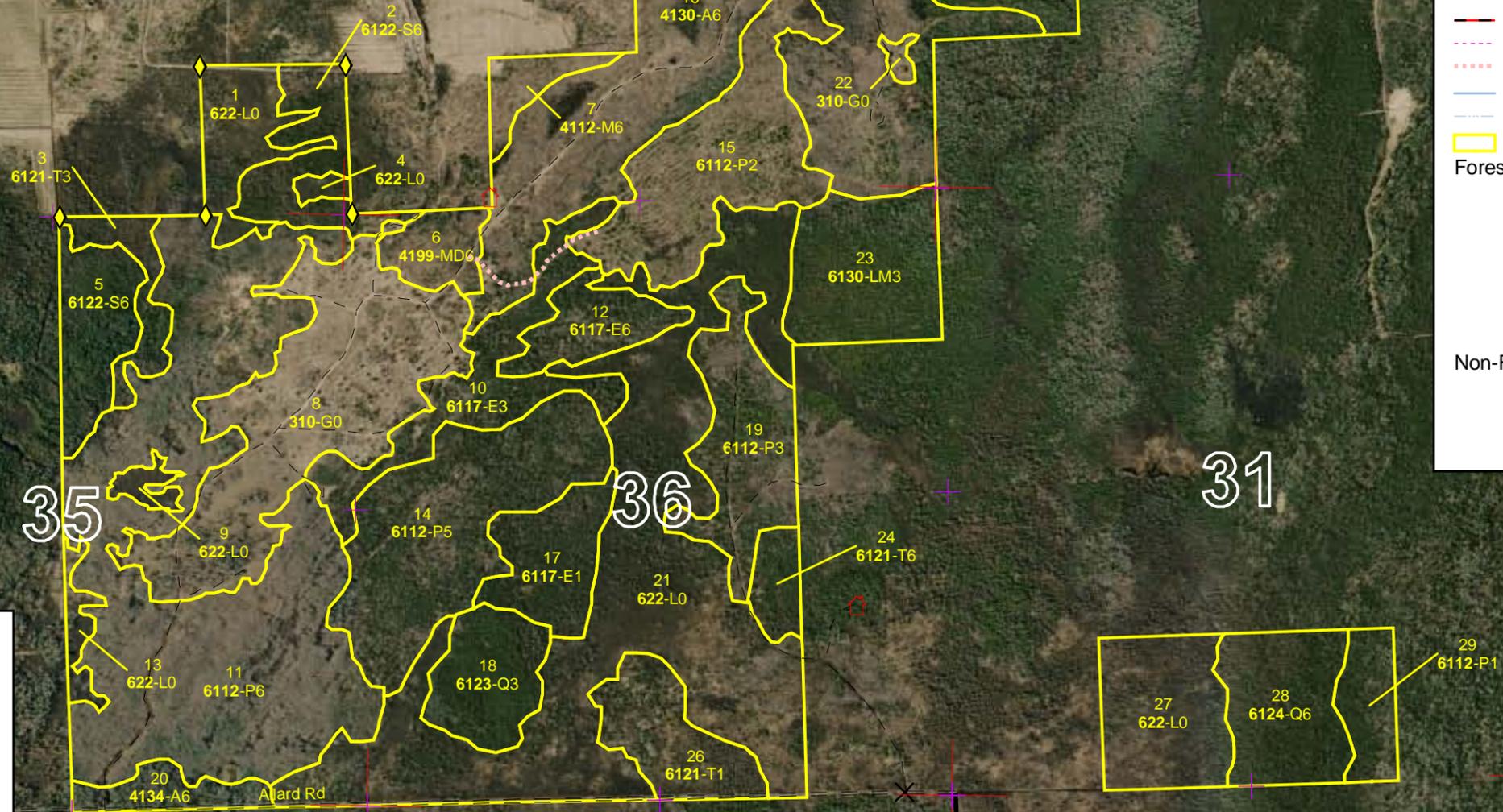
25

30

35

36

31



Allen Rd

Allard Rd

Deer Lake

Muskrat Lake

84°17'0"W

84°16'0"W

84°15'0"W

84°14'0"W

84°13'0"W

46°15'0"N

46°15'0"N

46°16'0"N

46°15'0"N

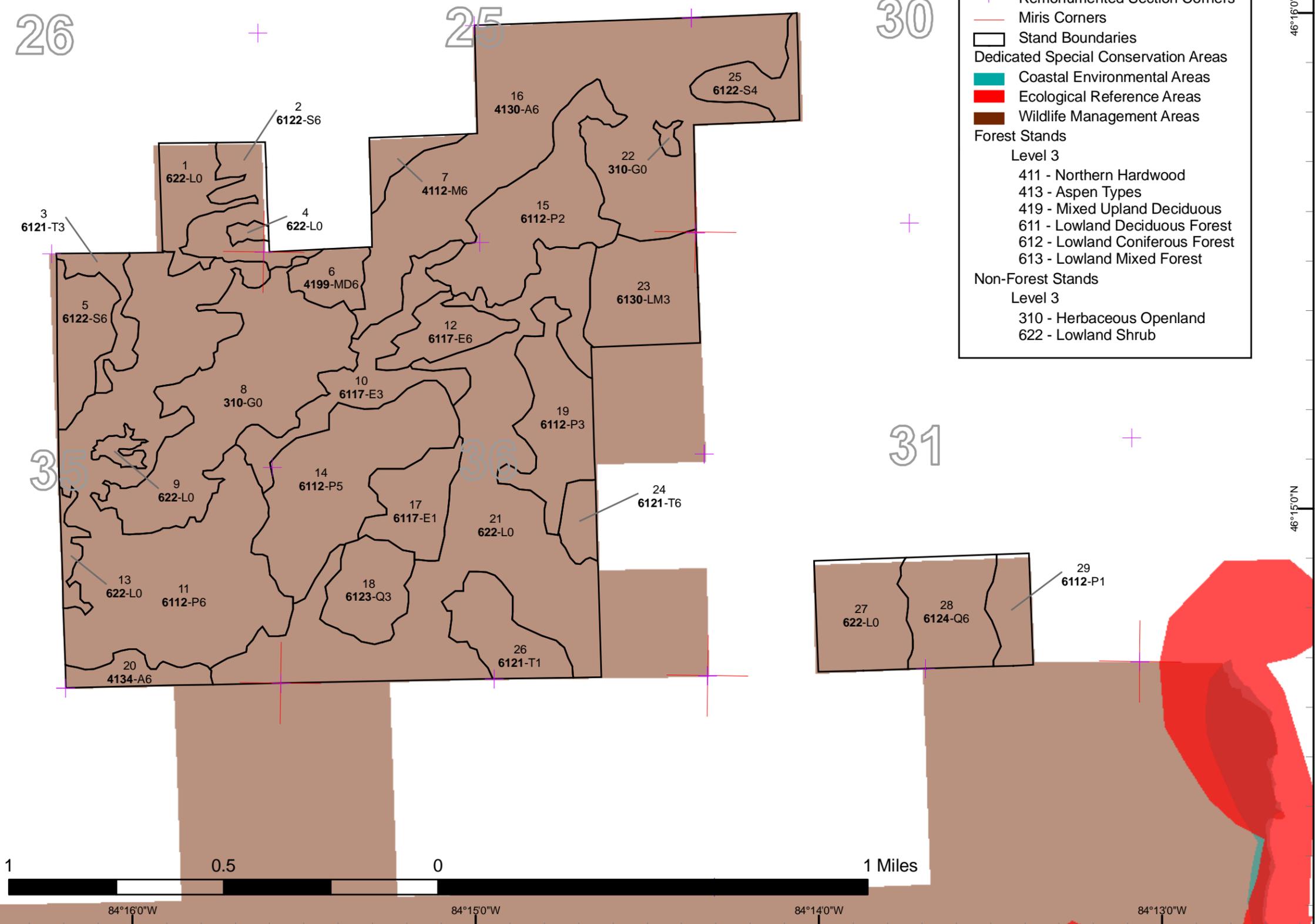
# Dedicated & Proposed Special Conservation Area Map

Compartment: 054  
 T45N R01E Sec. 25, 26, 35, 36  
 T45N R02E Sec. 30 31  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 YOE: 2014  
 Acres: 1,210 GIS Calculated  
 Examiner: Jason Caron  
 Map Revised: 08/08/2012  
 Map Phase: Pre-Review

- Legend**
- + Remonumented Section Corners
  - Miris Corners
  - Stand Boundaries
  - Dedicated Special Conservation Areas**
  - Coastal Environmental Areas
  - Ecological Reference Areas
  - Wildlife Management Areas
  - Forest Stands**
  - Level 3
    - 411 - Northern Hardwood
    - 413 - Aspen Types
    - 419 - Mixed Upland Deciduous
    - 611 - Lowland Deciduous Forest
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**Stand #**      **Stocking Density**  
 (23)  
**(412)0 - A7**  
 Level 3      OI  
 Level 4      Code  
**Cover Type Code**

26	25	30
35	36	31



84°17'0"W      84°16'0"W      84°15'0"W      84°14'0"W      84°13'0"W

46°16'0"N

46°15'0"N

46°16'0"N

46°15'0"N

**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	0	0	188	0	0	0	0	12	0	0	0	0	0	0	200
Herbaceous Openland	94	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Lowland Aspen/Balsam Poplar	58	39	195	0	0	0	0	71	0	0	0	0	0	0	364
Lowland Conifers	0	0	0	25	33	0	0	0	0	0	0	0	0	0	58
Lowland Deciduous	0	0	56	0	0	25	0	0	0	0	0	0	0	0	80
Lowland Mixed Forest	0	0	0	0	40	0	0	0	0	0	0	0	0	0	40
Lowland Shrub	241	0	0	0	0	0	0	0	0	0	0	0	0	0	241
Lowland Spruce/Fir	0	0	0	0	0	23	0	16	24	0	0	0	0	0	63
Mixed Upland Deciduous	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Northern Hardwood	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Tamarack	0	0	39	9	0	0	0	0	0	0	0	0	0	0	48
<b>Total</b>	<b>394</b>	<b>39</b>	<b>477</b>	<b>34</b>	<b>73</b>	<b>48</b>	<b>22</b>	<b>99</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1210</b>



## Table 2 – Proposed Treatment Summaries

**Sault Ste. Marie Mgt. Unit**  
**Year of Entry 2014**

**Compartment 054**  
**Total Compartment Acres: 1210**

### Acres by Treatment Type

Commercial Harvest - 103	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	11	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	71	0	0	0	0	0	71
Lowland Spruce/Fir	20	0	0	0	0	0	20
<b>Total</b>	<b>103</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>103</b>



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	45054005-Cut	20.5	6122 - Black Spruce	High Density Pole	83		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription: Clearcut with reserves. Do not cut pine, hemlock, oak, cedar and yellow birch if it exists within the sale.  
Specs:

Other Comments: A small 3 acre patch was excluded on West side of stand due to it being of small diameter and non-merchantable. Buffer the 3 acre patch on the East side by 1/2 chain for retention purposes. Also, when putting in red line exclude wet areas for retention purposes.

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

Proposed Start Date: 10/01/2013

14	45054014-Cut	71.5	6112 - Lowland Aspen	Medium Density Pole	70		Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
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Prescription: Clearcut with reserves. Red line out wet areas for retention pockets within the stand. Spec out sale to leave scattered trees within the sale. Do not cut oak, hemlock, pine, yellow birch and elm if it exists within the sale. Leave scattered trees representative of the stand as well as some retention pockets within the stand.  
Specs:

Other Comments: Put sale on at least a 5 year contract due to wet soils. Specify in sale that stand cannot be cut unless frozen ground conditions occur.

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

Proposed Start Date: 10/01/2013

20	45054020-Cut	10.8	4134 - Aspen, Spruce/Fir	High Density Pole	70		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription: Clearcut with reserves. Do not cut oak, hemlock, pine, yellow birch and cedar if it exists within the sale. Also leave white birch where present.  
Specs:

Other Comments: A 1 acre patch was removed from the treatment area along the central North line for retention purposes. Red line out wet areas, especially in the far East part of the stand.

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

Proposed Start Date: 10/01/2013

**Total Treatment  
Acreage Proposed: 102.8**

**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
<b>45104_OutOfY OE-Cut</b>	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									
<b>45152062-Cut</b>	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 maple, aspen, ash, beech, and balsam fir.									
<u>Steps:</u>									
<u>Proposed</u>									
<u>Start Date:</u> 10/01/2011									
<b>45157_OutOfY OE-Cut</b>	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									
<b>45195_OutOfY OE-Cut</b>	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 paper birch, ironwood, balsam fir, white spruce and white pine.									
<u>Steps:</u>									
<u>Proposed</u>									
<u>Start Date:</u> 10/01/2013									
<b>45202_OutOfY OE-Cut</b>	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 paper birch, ironwood, balsam fir, white spruce and white pine.									
<u>Steps:</u>									
<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: 054
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014
						General Comments:
2	6122 - Black Spruce	High Density Pole	23.3	55		Stand of decent quality black spruce. Spruce is still young, let mature.
3	6121 - Tamarack	High Density Sapling	12.8	27		Cut the same time as the adjacent aspen stand to the East. Stand is a transition area between the aspen which is a bit higher than the black spruce type to the West. Lowland regeneration is very nice.
5	6122 - Black Spruce	High Density Pole	23.8	83		Stand is small diameter but needs treatment. Black spruce is falling apart, surrounding stands have regenerated well.
6	4199 - Other Mixed Upland Deciduous	High Density Pole	12.8	60	51-80	Stand is up on a large knob (mountain) of sand and gravel. Stand consists of a mix of hardwood with young big tooth scattered within it. Stand must of been thinned hard in the past and big tooth filled in afterwards.
7	4112 - Maple, Beech, Cherry Association	High Density Pole	9.1	60	51-80	Stand of good quality sugar maple and red maple poles. Stand has been managed in the past, Big tooth has regenerated in a few of the canopy gaps. Some decent sugar maple regeneration exists as well.
10	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	38.0	27		Transition from high ground to low ground. Aspen is doing well, some pockets of tag alder and balsam fir are quite thick.
11	6112 - Lowland Aspen	High Density Pole	180.4	27		Decent stand of aspen but it has a fair amount of hypoxylon. Large burr oak exists here and there within the stand 12"-16".
12	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	17.7	29		Stand is converting from old to new. A few large aspen remain but overall stand is younger with a mix of conifer and deciduous.
14	6112 - Lowland Aspen	Medium Density Pole	71.5	70		Stand consists of poor quality scattered red maple and aspen with black ash underneath. Tag alder is thick in the understory and ground is very wet and low. Do not manage.
15	6112 - Lowland Aspen	Medium Density	58.4	5		Stand was clearcut in 2007. Aspen and bam regeneration has flushed back very well.
16	4130 - Aspen	High Density Pole	188.1	27		Nice stand of aspen regeneration.
17	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	24.6	59		High water table within stand. Stand is mostly tag with balsam fir, black ash, and bam mixed in. Trees are old but very small diameter.
18	6123 - Lowland Fir	High Density Sapling	24.6	30		Very thick regeneration within this spruce fir type. A small pocket of mature black spruce exists in the SW corner of stand but it's too small to delineate. Stand makes for good rabbitat.
19	6112 - Lowland Aspen	High Density Sapling	39.2	14		Cut in 1998. Nice stand of aspen regeneration with pockets of tag alder here and there.



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Sault Ste. Marie Mgt. Unit

## 5 – Forested Stands

Compartment: 054  
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4134 - Aspen, Spruce/Fir	High Density Pole	11.8	70		Stand is old and in need of treatment. Aspen is falling apart, cut to promote regeneration. Keep a few large aspen within the stand for retention.
23	6130 - Fir, Aspen, Maple	High Density Sapling	39.8	46		Stand of stagnant balsam fir, black ash and bam. High water table within the stand. Stand is older but trees are stagnant.
24	6121 - Tamarack	High Density Pole	9.1	37		Small patch of tamarack and black spruce. Stand is younger.
25	6122 - Black Spruce	Low Density Pole	15.7	73		Stand has patchy timber with large areas of L type (tag alder). Ground is very wet, do not manage. A few large white pine exist within the stand, impressive trees! A small stand of black spruce in South/Southwest corner of stand. Black spruce is in good shape.
26	6121 - Tamarack	Low Density Sapling	25.8	25		Spotty tamarack amongst an L type. Majority of stand is young.
28	6124 - Lowland Spruce- Fir	High Density Pole	33.4	40		Ages vary within the stand. Stand looks to have been picked through many, many years ago which results in some older wood and younger wood. Majority of stand is small diameter and younger. Ground is very low, timber is poorer quality.
29	6112 - Lowland Aspen	Low Density Sapling	14.6	25	1-50	Decent stand of aspen and bam regeneration mixed with pockets of black ash.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6220 - Alder/willow	20.8	N/A	Unspecified	
4	6220 - Alder/willow	2.4	N/A	Unspecified	
8	310 - Herbaceous Openland	92.5	N/A	Unspecified	
9	6220 - Alder/willow	4.1	N/A	Unspecified	
13	6220 - Alder/willow	6.0	N/A	Unspecified	
21	6220 - Alder/willow	172.7	N/A	Unspecified	
22	310 - Herbaceous Openland	1.9	N/A	Unspecified	
27	6220 - Alder/willow	34.9	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	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.