



**SAULT FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 4    ENTRY YEAR: 2009**

**Compartment Acreage: 2826      County: Chippewa**

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**Revision Date:** October 5, 2007

**Stand Examiner:** Jeff Wise, Jason Caron

**Legal Description:** T43N R7E Sec 31; T42N R7E Sec 5, 6, 7, 8 & 18; T43N R6E Sec 36; and T42N R6E Sec 1 & 12

**Management Goals:** The compartment has been undergoing treatments for deer range improvement and has had continuous cutting for the past 20 years. The cuts were laid out in a checkerboard style with 40 acre payment units and no unit adjacent to another. The primary management objective was to regenerate the upland and lowland aspen types with a variety of age classes, along with a limited number of cedar seed tree cuts in some of the aspen stands for sustainability and wildlife benefits. At this time, five units remain on contract to be cut, therefore, with the intensive and successful management of the past; no new treatments will be prescribed this decade.

**Soil and Topography:** Markey-Dawson association make up soils around the flooding: Very deep, nearly level, very poorly drained, mucky and peaty soils on outwash plains, lake plains, and ground moraines. The west side of the compartment consists of Pickford-Rudyard-Ontonogon association: Very deep, nearly level to very steep, poorly to well drained loamy soils on lake plains. The north part of the compartment is Potagannissing-Rock outcrop-Summerville: Exposed limestone bedrock and shallow, level to steep, poorly drained and well drained, loamy soils on ground moraines and glacial lake benches in the north part of the compartment. Shelter-Posen-Summerville: similar to above but a deeper soil in the south part of the compartment.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** A contiguous block of State ownership with private land bordering the east side and one parcel on the north side. This compartment, just south of the Maxton Plains Alvar area, is a primary hunting area. There are no snowmobile or ORV trails in the compartment.

**Unique, Natural Features:** There is a small amount of Alvar in the north part of the compartment. Part of the Potagannising Flooding is in the south part of the compartment with access to First and Second Lakes. MNFI has been consulted and comments received regarding potential and documented T & E species.

**Archeological, Historical, and Cultural Features:** None known at this time.

**Special Management Designations or Considerations:** The flooding area including any cedar swamps, marshes, and Alvar areas to the north are coded as Old Growth Potential and will receive no treatments.

**Watershed and Fisheries Considerations:** This compartment contains parts of First and Second Lakes, which are part of Potagannissing River. These lakes provide valuable northern pike spawning habitat, which is now accessible thanks to recent modifications to the Potagannissing dam. Since no treatments are prescribed near water in this compartment, Fisheries has no comments.

**Wildlife Habitat Considerations:** The western region of the compartment has been managed intensively over the past 20 years as part of the Deer Range Improvement program. The goal of the intensive management regime within the compartment is to provide a matrix of multiage aspen stands to provide habitat for species such as ruffed grouse and deer. Areas of cedar were left uncut within this complex to provide mature coniferous habitat for species such as blackburnian warbler, boreal chickadee, black bear, and marten.

The easternmost part of the alvar community is within the compartment and the Hill's thistle has been observed within the boundaries.

Wetland habitat is protected under the land management strategy and has resulted in successful breeding of black terns and provides resources for species such as the hooded and common mergansers, osprey, mink and leopard frog, muskrat and moose.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of thin to discontinuous peat and muck and lacustrine clay and silt over bedrock. There is insufficient data to determine the glacial drift thickness. The Silurian Manitoulin Dolomite and Ordovician Queenston Shale subcrop below the glacial drift. The Manitoulin could be used for stone/dolomite. Gravel pits are not known in the area and potential is limited. There is no current economic oil and gas production in the UP.

**Vehicle Access:** Colton Bay Rd borders the compartment for a short distance on the north side. A network of winter only logging roads extends into the interior for logging purposes. These roads are generally blocked in spring, and will be permanently blocked when the present timber harvesting operation is complete.

**Survey Needs:** None at this time

**Recreational Facilities and Opportunities:** Colton Bay Rd is a snowmobile trail in winter. Dispersed recreation such as canoeing, camping, and fishing, occur at the flooding where the lakes can be accessed. Other than that, the compartment is primarily used for hunting.

**Fire Protection:** Colton Bay Rd on the north side would provide limited access. There are plenty of winter roads, but truly good access would be difficult. Water sources would be from Potagannissing Flooding to fill engines and remote marshes and First and Second lakes for carry-in equipment.

## **Additional Compartment Information:**

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
  - ◆ **Cover Type by Age Class**
  - ◆ **Cover Type by Management Objective**
  - ◆ **Compartment Volume Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  
- **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**
  - ◆ **Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

CHIPPEWA COUNTY

COMPARTMENT: 4

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen			184	26						66		204							480
Cedar										19	47	288						344	698
Grass	94																		94
Lowlnd Brush	50																		50
Lowlnd Poplr		357	141					42		225		28							793
Marsh	360																		360
Red Pine																		10	10
Swamp Hrdwds							39	29											68
Upland Hdwds																		21	21
Water	252																		252
<b>Total</b>	<b>756</b>	<b>357</b>	<b>325</b>	<b>26</b>			<b>39</b>	<b>71</b>		<b>310</b>	<b>47</b>	<b>520</b>						<b>375</b>	<b>2826</b>

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Michigan Department of Natural Resources - Operations Inventory System  
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

CHIPPEWA COUNTY

COMPARTMENT: 4

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	480																										480
C Cedar				698																							698
G Grass					94																						94
L Lowlnd Brush									50																		50
P Lowlnd Poplr				8					785																		793
N Marsh									360																		360
R Red Pine															10												10
E Swamp Hrdwds																			68								68
M Upland Hdwds																								21			21
Z Water																									252		252
Total	480			706	94				50	785	360				10				68					21	252		2826

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

CHIPPEWA COUNTY

COMPARTMENT: 4

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	11388 Cds	Hardwood	1976 Cds
Hardwood	467 Mbf	Hardwood	46 Mbf
Softwood	4859 Cds	Softwood	421 Cds
Softwood	851 Mbf	Sum CutVol	2489 Cds
Sum TotVol	18883 Cds		
<b>Total Cmpnt Acres</b>		Acres Proposed For Cut.....	
2826		119	

**SAULT STE. MARIE MGT. UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 4**

**Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status	
<b>2</b>	<b>P6</b>	28	81	49	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	6			
comnts Fmd : SALE 011-01, CEDAR RETAINED, INCLUDES OLD STAND 56											
<b>12</b>	<b>P6</b>	46	81	49	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	6			
comnts Fmd : SALE 11-01, CEDAR RETAINED, INCLUDES OLD STAND 59.											
<b>38</b>	<b>P6</b>	45	81	49	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	6			
comnts Fmd : SALE 11-01, RETAIN APPROX 27 CEDAR SEED TREES PER ACRE, INCLUDES OLD STAND 52											
<b>Total Acres.....</b>		<b>119</b>									

**Proposed Treatments  
With Limiting Factors**

**Compartment: 4**

**Entry Year: 2009**

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<b>Stand</b>	<b>Cover Type</b>	<b>Acres</b>	<b>Age</b>	<b>Site Index</b>	<b>Mgt Obj</b>	<b>Condition</b>	<b>Method Cut</b>	<b>Harvest Priority</b>	<b>Cultural Need</b>	<b>FD Status</b>
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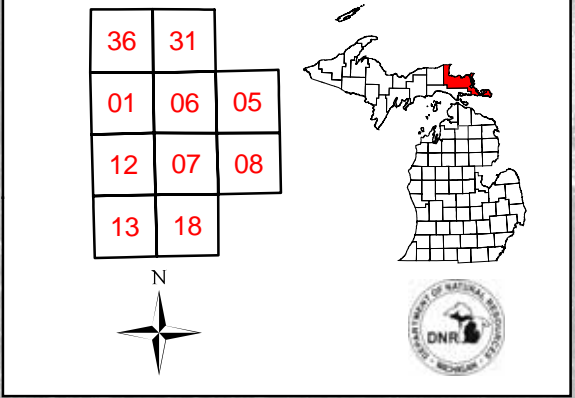
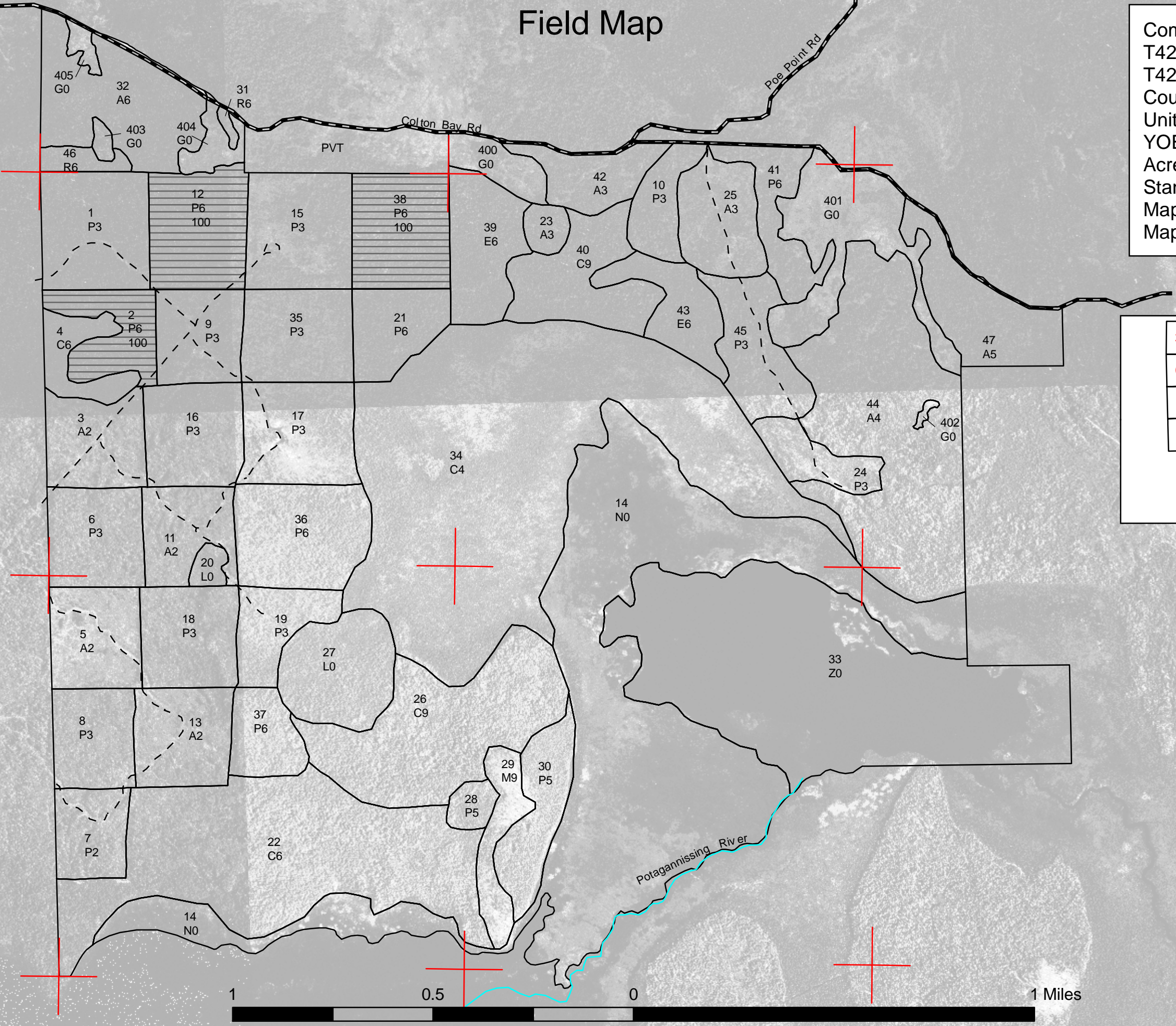
TREATMENT LIMITING FACTORS:

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**Total Acres..... 0**

# Field Map

Compartment 4  
 T42N, R06E, Sec. 1, 12  
 T42N, R07E, Sec. 5, 6, 7, 18  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 YOY: 2009  
 Acres: 2,826 GIS Calculated  
 Stand Examiner: Jason Caron  
 Map Revised: 10/03/2007  
 Map Phase: Pre-review



**Legend**

- Miris Corners
- Gravel Roads
- Poor Dirt Roads
- Water Features
- Stand Boundary
- 100 - Final Harvest

