



**SAULT FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 129      ENTRY YEAR: 2007**

**Compartment Acreage: 1,950      County: Mackinac**

---

**Revision Date:** September 21, 2005

**Stand Examiner:** Matthew Edison

**Legal Description:** T44N-R7W Sections 1, 12, 13, & 24, Hendricks Township.

**RMU (if applicable):**

**Management Goals:** The compartment is located predominantly northeast of Fiborn Quarry and bounded by Chippewa County to the north and east. Cover type varies from lowland / wetland types with some upland aspen, northern hardwoods, and pine types. Past management has focused on those areas that provide feasible access. This entry, treatment prescriptions involve final harvest of mature upland aspen stands in the northwest portion of the compartment. Other areas of aspen and spruce have been prescribed for treatment, but are factor limited due to access issues.

**Soil and Topography:** The predominant topography of the compartment is lowland consisting of bog and swamp conifer. The predominant soil in these types are Markey-Carbondale Muck and Histosols and Aquepts (ponded). There are ridges scattered throughout the lowland and some higher areas of level to rolling land that is occupied by aspen, northern hardwood, and pine types. The soils in these areas include Spot-Finch complex, Paquin-Finch sands, Pullup sand, and Wallace sands.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** There are private holdings in Section 13 and 24 that separate the compartment into two portions. To the east of the compartment is USFS land and a small section of private property. To the west is state owned land and one ½ mile section of private land. The remaining outer perimeter of the compartment is bounded by state owned land. State land to the north is managed out of the Newberry FMU.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** MNFI has recorded occurrences of numerous flora and fauna species of concern within and around the compartment. There is also potential for numerous other species of concern per MNFI notes.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** There are karst features (caves and sinkholes) to the sw of the compartment. Fiborn Junction is located at the intersection of Fiborn Quarry Road (North end) and Canadian National Railroad. This was part of access to the Fiborn quarry in the past.

**Special Management Designations or Considerations:** The Canadian National railroad runs se/nw through the northern portion of the compartment in section 1. Any treatments (none this entry) north of the tracks require special permission and considerations to cross railroad.

**Watershed and Fisheries Considerations:** Hendrie River headwaters. Fisheries values are poor. The section 24 headwater of Anguilm Creek is a generally intermittent flow, and generally important to Fisheries for its initial water quality considerations. Standard BMP practices will be sufficient to protect these waters from logging damage.

**Wildlife Habitat Considerations:** This compartment lies within the St. Ignace sub-subsection. Pre-settlement forest cover likely consisted of a white pine and hemlock mix with red pine and jack pine on the drier sites. In the low areas, tamarack, spruce and cedar appeared to be dominant. Species such as red maple, hemlock, birch, aspen and red pine were also present. Wind throw, fire, and beaver ponds were the likely forms of natural disturbance within this compartment.

The growing season last approximately 130 days. Extreme winter low temperature approaches  $-46^{\circ}$  F. Annual snowfall averages 100 inches.

This is a very diverse compartment composed of mixed forest, lowland brush, spruce, lowland conifer, with some hardwood and aspen scattered throughout. While the species composition within the lowlands appears to be similar to that found in pre-settlement times, upland forest cover has changed somewhat with a scattered aspen component.

Little treatment is prescribed for this compartment due to difficult access. The one aspen stand to be clear cut will provide increased forage for wintering deer as well as maintain adequate habitat for ruffed grouse, woodcock, snowshoe hare, black bear, gray wolf,

Wildlife species with the potential to benefit from the prescriptions include American toad, garter snake, purple finch, American woodcock, ruffed grouse, gray wolves, and white-tailed deer.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel sometimes thin. There is insufficient data to determine the glacial drift thickness. The Silurian Burnt Bluff Group, Manitoulin Dolomite and Cabothead Shale subcrop below the glacial drift. The Burnt Bluff is quarried for stone/limestone two miles to the west at Fiborn Quarry. Gravel pits are not located in the area, but there may be some potential on uplands. There is no current economic oil and gas production in the UP.

**Vehicle Access:** In general access is very poor to the interior of the compartment. The northern part is accessed from state land via Fiborn Quarry Road (County/dirt). (Any access from the south to the north portion of the compartment is through private property. Access has been granted in the past, but rescinded to at least one logger). Paved Mackinac County Road H-40 crosses east/west through the southern portion of the compartment and provides adequate access southward. Road access north of H-40 in the south portion of the compartment is non-existent, except through private land. Access to stands in sec. 13 is through private property (Wilwin). Access has been granted in the past.

**Survey Needs:** None needed this entry

**Recreational Facilities and Opportunities:** Hunting and Trapping opportunities exist throughout the compartment.

**Fire Protection:** Upland areas of grass, brush, and pine provide the greatest risk for fire in this compartment. Access is generally poor within this compartment and any fire within the interior of the northern portion could pose access difficulties. The areas of heavy soil will increase mop-up difficulties in the event of a fire. Anguilm Creek and the south branch of the Hendrie River provide the closest opportunities for water source. There are numerous seasonal and intermittent wet areas scattered all throughout that may provide water per conditions.

## **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**

09/28/2005 2:03:15 PM

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

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

MACKINAC COUNTY

COMPARTMENT: 129

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																Total	
	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
Aspen		93	19							86									198
Black Spruce										233	23								256
Cedar										401			89				27		517
Grass	85																		85
Lowlnd Brush	183																		183
Lowlnd Poplr			24							30									54
Mx Swmp Cnfr										383									383
Non Stocked	21																		21
Paper Birch			11							73									84
Red Pine										15									15
Swamp Hrdwds										20									20
Upland Brush	58																		58
Upland Hdwds										31								32	63
White Pine										13									13
<b>Total</b>	<b>347</b>	<b>93</b>	<b>54</b>							<b>1285</b>	<b>23</b>		<b>89</b>				<b>27</b>	<b>32</b>	<b>1950</b>

09/28/2005 2:03:22 PM

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

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

MACKINAC COUNTY

COMPARTMENT: 129

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	198																										198	
S Black Spruce		233										23															256	
C Cedar				517																							517	
G Grass					85																						85	
L LowInd Brush									183																		183	
P LowInd Poplr										54																	54	
Q Mx Swmp Cnfr												383															383	
X Non Stocked													21														21	
B Paper Birch															66				18								84	
R Red Pine																15											15	
E Swamp Hrdwds																			20								20	
U Upland Brush																								14	44		58	
M Upland Hdwds																									63		63	
W White Pine																										13	13	
<b>Total</b>	198	233		517	85				183	54		406	21		66	15			18	20				14	107		13	1950

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

MACKINAC COUNTY

COMPARTMENT: 129

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4199 Cds	Hardwood	2206 Cds
Hardwood	11 Mbf	Softwood	798 Cds
Softwood	7886 Cds	Softwood	63 Mbf
Softwood	527 Mbf	Sum CutVol	3130 Cds
Sum TotVol	13161 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	149
1950			

**SAULT STE. MARIE MGT. UNIT**

**Proposed Treatments  
With NO Limiting Factors**

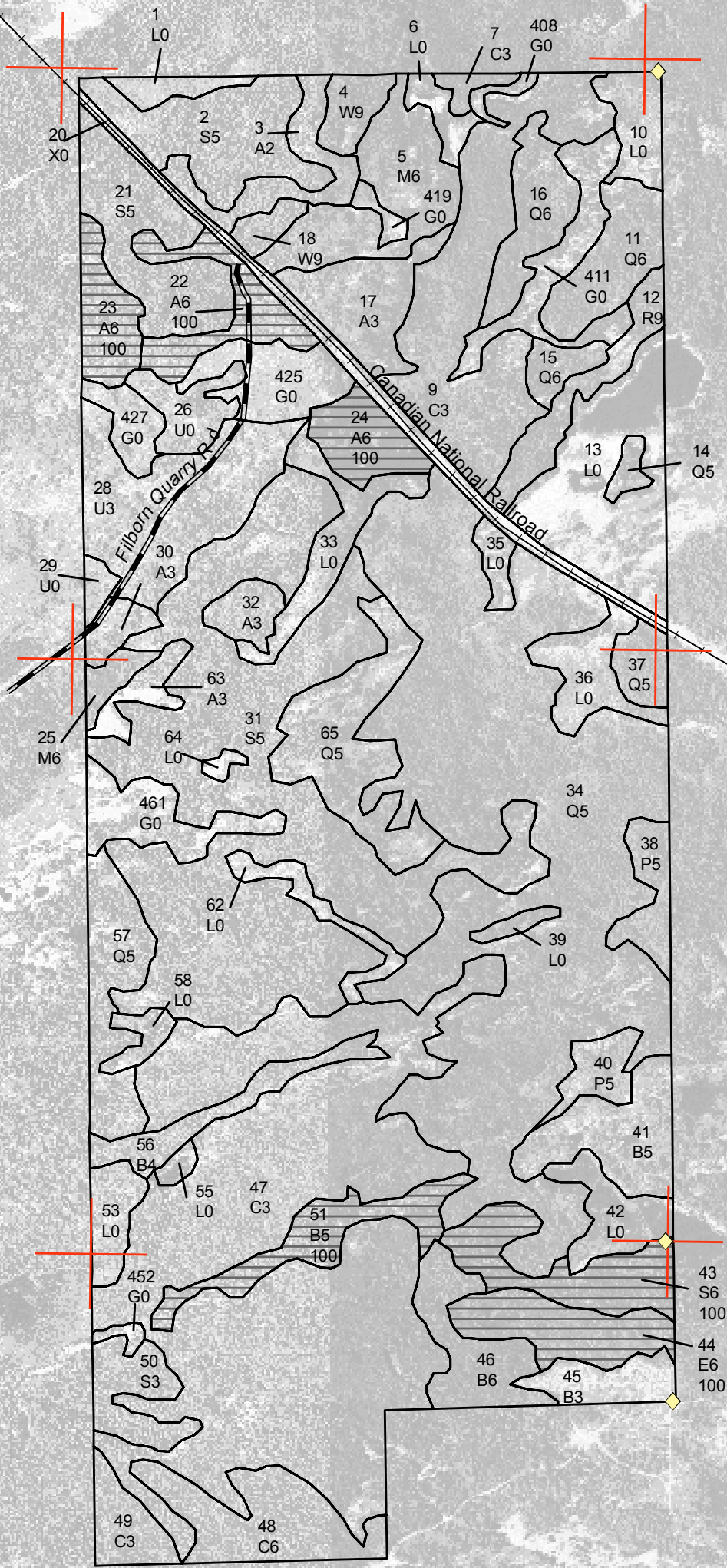
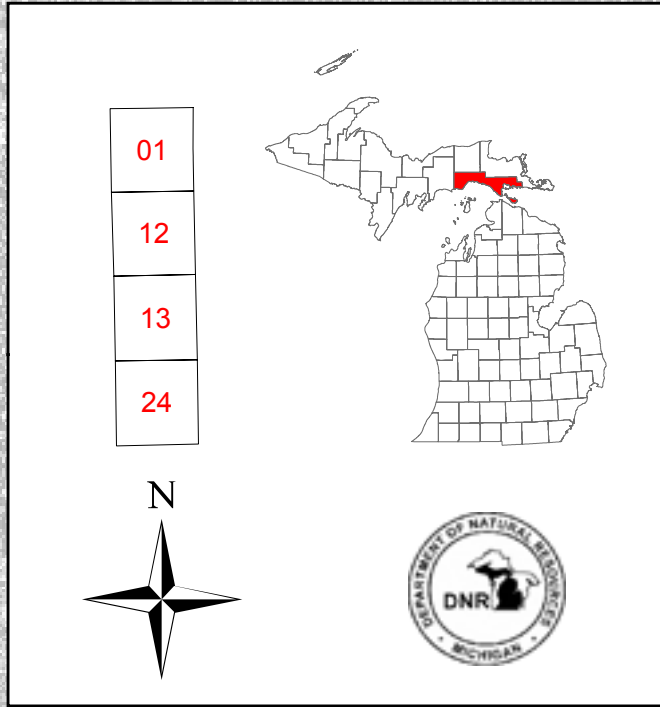
**Compartment: 129**    **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
<b>22</b>	<b>A6</b>	15	78	66	aspen (upland)	mature	final harvest	3		
comnts Fmd : Patchy area of Aspen with some scattered hardwoods (Mr). Final harvest with any scattered Wp to be left as reserve trees. Management Objective will be aspen, but stand will most likely regenerate as mix of A, M, F, B, which is common in this area and acceptable. Wld :										
<b>23</b>	<b>A6</b>	13	78	66	aspen (upland)	mature	final harvest	3		
comnts Fmd : Patchy area of Aspen with some scattered hardwoods (Mr). Final harvest with any scattered Wp to be left as reserve trees. Management Objective will be aspen, but stand will most likely regenerate as mix of A, M, F, B, which is common in this area and acceptable.										
<b>24</b>	<b>A6</b>	13	78	66	aspen (upland)	mature	final harvest	3		
comnts Fmd : Patchy area of Aspen with some scattered hardwoods (Mr). Final harvest with any scattered Wp to be left as reserve trees. Management Objective will be aspen, but stand will most likely regenerate as mix of A, M, F, B, which is common in this area and acceptable.										
<b>Total Acres.....</b>		<b>41</b>								

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
43	S6	23	90	43	mixed swamp conifer	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Adjacent landowner denies access Blocked by other physical obstacle										
comnts Fmd : Stand is decent Spruce with some tamarack scattered. Access is limiting factor here, through private. Management objective will be S, but mix of C, B, M, is likely and acceptable.										
44	E6	20	83	55	swamp hardwoods	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Adjacent landowner denies access Too wet										
comnts Fmd : Lowland hardwood and cedar type mixed with soe birch. Very wet are left off of previous harvest in 1991 (Willwin Birch). Only access is through private. Management objective will be E, but regeneration will most likely include, f, b, which is common in this area and acceptable.										
51	B5	18	81	50	spruce-fir (uplands- including upland black spruce)	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle Inadequate volume due to low stocking/small diameter/etc.										
comnts Fmd : Ridge with very small and patchy birch/ balsam.- no access.										
73	A6	35	79	68	aspen (upland)	mature	final harvest	1		
TREATMENT LIMITING FACTORS: Adjacent landowner denies access										
comnts Fmd : Stand is portion left over after last harvest. Only access is through private. Management objective is aspen ,but regeneration could include F, b, M which is common in this area and acceptable.										
83	P5	12	83	50	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Too wet Adjacent landowner denies access										
comnts Fmd : Stand was prescribed for harvest last entry, but un-cut due to it being poor quality and wet. Only access is through private. Management objective is Aspen, but regeneration could include F, b, m which is common in this area and acceptable.										
<b>Total Acres.....</b>		<b>108</b>								

# Field Map

Compartment 129  
 T44N, R7W, Sec. 1, 12, 13, 24  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 YOE: 2007  
 Acres: 1,950 GIS Calculated  
 Stand Examiner: Matthew Edison  
 Map Revised: 9/27/2005  
 Map Phase: Pre-review



- Legend**
- ◆ RLS Corners
  - Miris Corners
  - Paved Roads
  - Gravel Roads
  - Railroads
  - Stand Boundary
  - ▨ 100 - Final Harvest
  - Name Gravel Roads

