



**SAULT FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 45      ENTRY YEAR: 2009**

**Compartment Acreage: 2469      County: Chippewa**

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**Revision Date:** October 5, 2007

**Stand Examiner:** Jason Caron

**Legal Description:** T45N R2W, Sec 2, 10, 11, 14, 15, 22, 23, 26

**Management Goals:** Regular treatments have been conducted in this compartment but on a limited basis due to access. This YOE, treatments will include aspen regeneration harvests in the north block in more easily accessible stands meeting silvicultural criteria. Others will get limiting factors until better access is gained. The south block has more black spruce and the mature stands are slated for regeneration harvests. These treatments are designed to develop optimal age class distribution of aspen and black spruce stands for sustainability and to provide for biodiversity and wildlife benefits. Streams and wetlands will be buffered by at least 100-150 feet.

**Soil and Topography:** The north part has a small area of Pickford-Rudyard-Ontonogon association: Very deep, nearly level to very steep, poorly to well drained loamy soils on lake plains. The central part is Kalkaska-Rubicon association: Very deep nearly level to very steep, excessively drained, sandy soils on outwash plains and ground moraines. The south part and some areas to the north are Fibre-Allendale-Pickford association: Very deep, nearly level, poorly drained, mucky, sandy, and loamy soils on lake plains, ground moraines, and outwash plains.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Private land borders this compartment on the north, west, and south sides, with state land on the east. Private land along Thompson Road also splits the compartment in two. Approximately one third of the compartment is south of Thompson Road, while the remaining two thirds is to the north. Land use includes agriculture, residences, and hunting camps. There is a developed private gravel pit on the south side of the main block on Thompson Road and a small area of land bordering I-75. Private landowners on Kinross Road feed deer in winter.

**Unique, Natural Features:** 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:** None at this time. No treatments will occur in low, wet, or drainage areas, or any cedar stands. Deer yard areas will be treated in winter.

**Watershed and Fisheries Considerations:** The small branch of the South Branch Waishkey River was designated as SQCW for trout in 1967 and as Type 1 in 2000. Anecdotal stories from when the Kincheloe Airforce Base was operational told of airmen targeting trout in this reach of stream. Present-day stories, however, describe the stream as intermittent. Perhaps the long-term drought conditions, combined with clay

soils, have reduced the summer flows enough preclude trout survival. This reach will be surveyed by Fisheries personnel during the summer 2007.

**Wildlife Habitat Considerations:** The area has several streams and small wetlands that are present both year-round and intermittently that provide critical habitat for wetland obligate species such as the four-toed salamander, mink frog, painted turtle, and northern water snake. Terrestrial reserve areas or core habitat zones surrounding streams, ponds, and ephemeral wetlands offer protection for reptile and amphibian populations. Interruption of migration activity to breeding areas is one consequence of operation of equipment within this core habitat. Additionally, decreasing forest canopy closure in adjacent terrestrial habitat causes changes in microhabitat and soil temperature which poses serious threats to many amphibians. These species contribute to the prey base for many reptiles, birds, and mammals, thus this habitat is an important component in the food web and is critical to maintaining a diverse community of species. Considering that one of our management goals is the conservation of biological diversity, we must incorporate this information into our management decisions, and by doing so assure that the variety and abundance of all species continues on in a healthy and productive state.

The southern portion of the compartment falls within the boundaries of the deer yard. Management of aspen and conifer creates multiple age class distribution providing necessary food and cover for wintering deer.

A nesting broad-winged hawk was documented within the northern section of the compartment. Many bird species were observed and benefited from the juxtaposition of lowland and upland habitat such as yellow-rumped warbler, black throated green warbler, red-eyed vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch, and ruffed grouse.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of coarse-textured till and lacustrine (lake) clay, silt, sand & gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These rocks are quarried in the UP for stone/dolomite. Gravel pits are located in the area and potential is good. There is no current economic oil and gas production in the UP.

**Vehicle Access:** On the north block, the east side can be accessed fairly easily from Kinross Road. although there are no roads into the compartment. Steep drainages and gullies prevent any real feasibility for actual road access. Possible easement may be granted from private land on the west side and would have road access from Bound Road. where an old logging road extends into the compartment. The south block has sufficient access for both public recreation and State management from Ploegstra and Thompson Roads.

**Survey Needs:** Possibly in sections 2, 10, and 15 after researching the records.

**Recreational Facilities and Opportunities:** No public or state roads, or recreation trails exist in the north block. Walk in only for hunting, the main activity here, where deer and grouse would be sought after. The only road in the south block is also a snowmobile trail.

**Fire Protection:** Access is good to the south block and the south portion of the north block from Ploegstra, Kinross, and Thompson Roads, however, the west side of the north block access would have to be through the private logging road off Bound Road, or any other private land on Bound Rd. The east side would be carry in only or major tractor plow work off Kinross Road. Water sources are fairly close with many drainages, bogs, and marshes within the compartment. Garlinghouse Lake is also close by for filling engines.

## **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: 45

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		60	256	102	70		31	303	9	6									837
Black Spruce					16			64	122	133	193			3					531
Bog or Marsh	4																		4
Cedar										23	28	55	20						126
Grass	44																		44
LowInd Brush	332																		332
LowInd Poplr						20					26								46
Marsh	169																		169
Mx Swmp Cnfr												5							5
Non Stocked	13																		13
Paper Birch								48	27			3							78
Spruce Fir		2								63			19						84
Swamp Hrdwds								5		46									51
Treed Bog	87																		87
Upland Hdwds																		27	27
Water	35																		35
<b>Total</b>	<b>684</b>	<b>62</b>	<b>256</b>	<b>102</b>	<b>86</b>	<b>20</b>	<b>31</b>	<b>420</b>	<b>158</b>	<b>271</b>	<b>247</b>	<b>63</b>	<b>39</b>	<b>3</b>				<b>27</b>	<b>2469</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: 45

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	837																										837
S Black Spruce		531																									531
V Bog or Marsh			4																								4
C Cedar				126																							126
G Grass					44																						44
L LowInd Brush									332																		332
P LowInd Poplr										46																	46
N Marsh											169																169
Q Mx Swmp Cnfr												5															5
X Non Stocked													13														13
B Paper Birch															78												78
F Spruce Fir																			84								84
E Swamp Hrdwds																				51							51
D Treed Bog																						87					87
M Upland Hdwds																								27			27
Z Water																									35		35
Total	837	531	4	126	44				332	46	169	5	13		78				84	51		87		27	35		2469

LAKE SUPERIOR STATE FOREST

SAULT STE. MARIE MGT. UNIT

CHIPPEWA COUNTY

COMPARTMENT: **45**

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

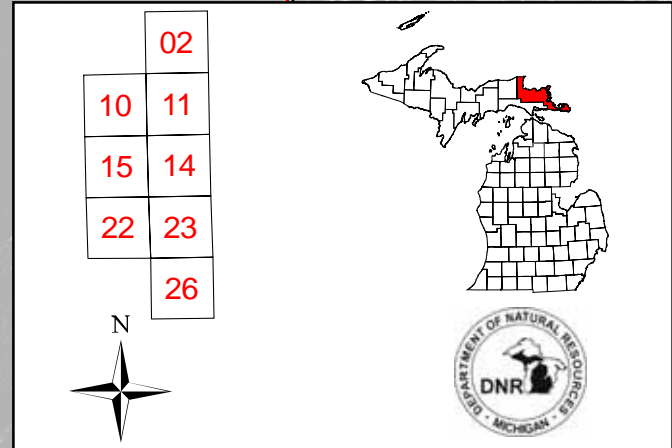
COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	9760 Cds	Hardwood	4779 Cds
Hardwood	122 Mbf	Hardwood	4 Mbf
Softwood	10421 Cds	Softwood	6297 Cds
Softwood	380 Mbf	Softwood	290 Mbf
Sum TotVol	21185 Cds	Sum CutVol	11664 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
2469		640	

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
5	A5	37	61	70	aspen (upland)	mature	final harvest	1		
comnts Fmd : More Red Maple this YOE probably due to Hypoxylon reported in 1997, maintain Aspen mangement objective, thick unmerchantable balsam understory, regeneration of present species acceptable, CC with reserves, do not cut any pine and cedar, buffer trout stream 150', manage with 16,										
Wld : Retain representation of current size and species composition within stand. Buffer stream by 150'.										
9	S6	28	68	49	black spruce-swamp	old growth (potential or actual)	final harvest	1		
comnts Fmd : Not too old but should be treated, manage with 37, not much difference but has less aspen, high risk of blowdown if stands treated separartley, cc with reserves, do not cut pine or cedar, buffer trout stream 150',regeneration of present species acceptable, borders Kinross Rd, SCA deer yard.										
Wld : Within deer yard, winter cut optimal. Buffer stream by 150'. Retain some large diam aspen (a particularly nice one on south end of stand next to the two large hemlock trees mentioned in FMFM notes) and representation of current size and species composition.										
16	A6	67	60	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : Showing signs of age, softwood is falling down, aspen is poor, (hypoxolon), manage with St 5, cc with reserves, do not cut any pine or cedar, buffer the trout stream 150', buffer hawk nest, regeneration of present species acceptable.										
Wld : Buffer broad-wing hawk nest by 150 meters. Buffer intermittent stream following BMP. Retain some large declining trees and current representation of size and species composition.										
34	M6	7		60	northern hardwood	old growth (potential or actual)	selection	2		
comnts Fmd : 1997-SOME ASPEN SAW IN WITH THE PULP. S.I., ESTIMATED. 2007, needs a pulp thinning no aspen showed up in points but note 1997 comments. Remove any nice aspen logs but leave most to keep form sprouting, SCA, deer yard.										
Wld : In deer yard, winter cut optimal. Reserve some large aspen.										
37	S6	67	68	49	black spruce-swamp	old growth (potential or actual)	final harvest	1		
comnts Fmd : New stand, was south half of St 39, Si copied from St 9, manage with same, cc with reserves, do not cut pine or cedar, buffer trout stream 150', regeneration of present species acceptable, 98 is spruce and balsam, SCA, deer yard.										
Wld : In deer yard, winter cut optimal. Retain current mix of size and species composition. Buffer stream by 150'.										
45	A6	63	58	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : Good quality, needs treatment to regenerate, 1997 Hypoxolon reported, cc with reserves, do not cut any pine or cedar, regeneration of present species acceptable, good chance of access through pvt.										
Wld : Retain mix of current size and species composition.										
59	S6	97	87	43	black spruce-swamp	old growth (potential or actual)	final harvest	2		
comnts Fmd : Showing signs of age, needs treatment to regenerate, cc with reserves, scattered w and j pine, do not cut any pine or cedar, regeneration of present species acceptable, borders Ploegstra Rd, may need a buffer, SCA, DEER YARD.										
Wld : Reserve some large pines and spruce within stand. Follow BMP, mark around wet areas.										
75	S6	56	94	44	black spruce-swamp	old growth (potential or actual)	final harvest	2		
comnts Fmd : Old and ready, needs treatment to regenerate, up and down ridges with trees and no trees, scattered R& W pine logs, cc with reserves, do not cut any pine and cedar, regeneration of present species acceptable, borders Ploegstra Rd, may need a buffer. 98 is spruce and pine logs, SCA, DEER YARD.										
Wld : In deer yard, winter cut optimal. Low birch representation. Small white pine. Follow BMP to protect wet areas, mark around.										
<b>Total Acres..... 422</b>										

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
22	A6	22	59	53	aspen (upland)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Land survey needed										
comnts Fmd : Good mix of merchantable species, birch declining, cc with reserves, do not cut any pine or cedar, leave buffer along swamp, regeneration of present species acceptable, good access from pvt, may need a survey or not?										
Wld : Wetland area in S end of stand, follow BMP. Retain mix of current size and species composition.										
33	S6	46	66	55	black spruce-swamp	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate) Blocked by other physical obstacle										
comnts Fmd : Try to get this one, in need of regeneration, manage with 36 and 40, cc with reserves, do not cut any pine and cedar, regeneration of present species acceptable, buffer trout stream 150', SCA, deeryard.										
36	S6	27	78	39	black spruce-swamp	old growth (potential or actual)	final harvest	3		
TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate) Blocked by other physical obstacle										
comnts Fmd : 98 IS 30 SAW & 20 & 21 IN PULP 99 IS 10 & 11, 2007, manage with 33 and 40, cc with reserves, do not cut any pine and cedar, buffer trout stream 150', regeneration of present species acceptable, SCA, deer yard.										
40	A5	114	62	65	aspen (upland)	old growth (potential or actual)	final harvest	3		
TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate) Blocked by other physical obstacle										
comnts Fmd : Mature stand, needs treatment to regenerate, try to get this one, access will be difficult, cc with reserves, do not cut pine or cedar, buffer trout stream, regeneration of present species acceptable, SCA, deeryard.										
Wld : Within deer yard, winter cut optimal. Buffer stream by 150'. Retain species and size class composition within stand in addition to the 150' buffer.										
54	S5	9	84	46	black spruce-swamp	old growth (potential or actual)	final harvest	3		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle Land survey needed										
comnts Fmd : Was S6, losing some S and A last YOE is gone, try to get this one, access and survey is the problem, manage with 59 if ever, SCA, DEER YARD.										
Total Acres.....		218								

Compartment 45  
 T45N, R02W, Sec. 2, 10, 11, 14, 15, 22, 23, 26  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 YOE: 2009  
 Acres: 2,469 GIS Calculated  
 Stand Examiner: Jason Caron  
 Map Revised: 10/03/2007  
 Map Phase: Pre-review

Field Map



- Legend**
- Miris Corners
  - Paved Roads
  - Gravel Roads
  - - - Poor Dirt Roads
  - ⋯ Trails
  - Water Features
  - Snowmobile Trails
  - Stand Boundary
  - 100 - Final Harvest
  - 800 - Selection

