ESCANABA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 59 ENTRY YEAR: 2009
Compartment Acreage: 3,046 County: Menominee

Last Revision: July 6, 2007

Stand Examiner: Kelly Standerfer, FMFMD; Bill Rollo and Craig Albright, Wildlife Division.

Legal Description: T35N-R26W, Sections 23-26 and 34-36.

Management Goals: This year of entry (YOE), management goals are focused on maintaining relatively little disturbance in this area due to its unique wildlife habitat potential resulting from the shallow lakes and marshes along with leather leaf and spruce bogs. This compartment contains mainly lowland types consisting of cedar, mixed conifer (Q) types, bogs, marshes and lowland brush along with North Lake and Little Lake. The upland areas are either northern hardwoods or early-successional aspen. No treatments are prescribed for this year of entry. Some of the maple types may be treated in the future along with some of the aspen and Q types.

Soil and Topography: Level to slightly rolling. Soils are poorly drained, somewhat poorly drained, and well drained sands and very poorly drained, extremely acid mucks and peats. Major soil series are Deford, Wainola, Rousseau, Dawson, Greenwood, and Kinross.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is part of a band of state forest land that is about 25 miles long and 7 miles wide between Escanaba and Menominee. Privately owned agriculture lands lie to the west of this compartment. State forest land, intermixed with private in-holdings, are adjacent to this compartment to the north east and west. Additionally two private 40 acre parcels were acquired to better block in this compartment.

Unique, Natural Features: This area has the potential to harbor many rare and endangered species including great blue heron rookery, eagle, osprey, moose, wolf, northern harrier, Blanding's turtle, loon, black tern, least bittern, American bittern, frigga fritillary, freija fritillary, red-disked alpine, ebony boghaunter, wood turtle, goshawk and red-shouldered hawk. In the form of vegetative unique and natural features, this area has the potential for calypso orchid, ram's head lady's-slipper, marsh grass-of-parnassus, sweet coltsfoot, and Wiegand's sedge.

Archeological, Historical, and Cultural Features: None known to exist.

Special Management Designations or Considerations: Due to the extensive, unique nature of the marsh complex and poor access, most of this compartment will be designated as “SCA” in which natural processes will be allowed to operate. Upland forest stands that are easily accessible by roads will likely continue to be managed in the future.

Watershed and Fisheries Considerations: This compartment contains North Lake and Little Lake. These two shallow-water basins and connecting channels are part of the more extensive

"Hayward Lake Marsh" complex. The Walton River flows out of North lake for about 1 mile in this compartment. No RDR (Resource Damage Reports) have been submitted for corrective action in this compartment. The winter road going south into stand 17 may need to be blocked but at the current time little ORV traffic is using the trail during the wet season.

Wildlife Habitat Considerations: *Ecological Context:* This compartment is within a sand lake plain located between Escanaba and Menominee. This plain historically supported forests of hemlock and white pine on ridges, and extensive swamps of cedar, black spruce, and tamarack in low areas. Broad upland areas sometimes supported northern hardwood forests of beech and sugar maple. Wind throw was the most common natural disturbance regime. During the past 100 years aspen has increased greatly while white pine, red pine, hemlock, and cedar have declined.

Recommendations: This compartment comprises the north half of the Hayward Lake Wetland Complex and contains North Lake and Little Lake. Hayward Lake, the largest lake in this 3-lake chain, is located in the compartment to the south. All 3 lakes are natural, shallow water basins that were documented in the 1800's by the original land surveyors. Together they form the headwaters of the Walton River. In 1952, a dam was installed on the Walton River about 4 miles downstream from North Lake, presumably to stabilize water levels in the lakes and expand the existing wetland complex. The dam mainly creates a widening and deepening of the Walton River between the dam and County Road G-12. It appears to be capable of adding about 1 foot of water to the north end of North Lake and some spill over flooding into the vast expanse of marsh and lowland brush between North and Hayward Lakes. However, the dam has progressively less impact on water levels as one moves south from North to Hayward Lakes. This is because the surface water elevation at the south end of Hayward Lake is already higher than the height of the stoplog bays at the dam. Nevertheless, stoplogs are added to the dam late each summer and removed later in the fall due to strong views by local sportspersons that the dam actually manages water depths throughout the chain-of-lakes.

No forest management prescriptions have been made this year-of-entry, as most of the compartment is designated as "Special Conservation Area." This designation recognizes the inaccessibility and lack of merchantability of the vegetation and provides an area for patches of trees to become old and develop cavities and other features attractive to wetland wildlife. A Strategic Plan was approved for the Hayward Lake Wetland Complex, which includes this compartment, in 2003. This plan, which mainly addresses the lakes and rivers, will be followed by Wildlife Division staff during the coming decade. A copy may be obtained at the Escanaba DNR Office.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and medium-textured till with drumlins. The glacial drift thickness varies between 10 and 50 feet. Beneath the glacial drift are the Ordovician Trenton and Black River Group. The Black River and Trenton are quarried for limestone/dolostone elsewhere in the UP. None of the State land has been previously leased for metallic mineral exploration. Gravel pits are located in the area and there should be potential on the uplands. No economic oil and gas production has been found in the UP.

Vehicle Access: County road G-12 divides the compartment into a 1/3 northern block and a 2/3 southern block. Other than this the compartment is only accessible via foot or canoe.

Survey Needs: None needed.

Recreational Facilities and Opportunities: North Lake provides opportunities to canoe, fish, hunt waterfowl, trap, and view marshland wildlife. An undeveloped boat launch for small watercraft is present at the bridge on G-12 over the Walton River.

Fire Protection: No significant control problems foreseen due to the lack of explosive fuels and an abundance of natural fuel breaks, such as low wet stands of timber and lowland brush. Low wet areas will impede fire suppression as well as fire spread.

Additional Compartment Information: Stand 17 is a high quality hardwood stand that has been actively managed over the past two decades. The issue of weather to include this stand within surrounding "SCA" status is unresolved. FMFM agrees to put this stand in SCA status noting that it will continue to be managed but will be pushed more towards "big tree" management. Thinnings will be more of a thin from below and of less frequency than a typical hardwood type.

****** Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

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 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

ESCANABA RIVER STATE FOREST | ESCANABA FOREST MGT UNIT | MENOMINEE COUNTY | COMPARTMENT: **59**

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			15	152	72														239
Cedar									159		117								276
Lowlnd Brush				3				668											671
Marsh	426																		426
Mx Swmp Cnfr									256										256
Non Stocked	10																		10
Spruce Fir			2																2
Swamp Hrdwds										18									18
Treed Bog									666										666
Upland Hdwds										29	25							83	137
Water	345																		345
Total	781		17	155	72			668	1081	47	142							83	3046

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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	239																										239
C Cedar				276																							276
L Lowlnd Brush									671																		671
N Marsh											426																426
Q Mx Swmp Cnfr												256															256
X Non Stocked													10														10
F Spruce Fir																			2								2
E Swamp Hrdwds																				18							18
D Treed Bog																						666					666
M Upland Hdwds																								137			137
Z Water																									345		345
Total	239			276					671		426	256	10						2	18		666		137	345		3046

ESCANABA RIVER STATE FOREST | ESCANABA FOREST MGT UNIT | MENOMINEE COUNTY | COMPARTMENT: **59**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY

TOTAL VOLUME		CUT VOLUME	
Hardwood	3238 Cds	Hardwood	134 Cds
Hardwood	498 Mbf	Sum CutVol	134 Cds
Softwood	4495 Cds		
Softwood	37 Mbf		
Sum TotVol	8803 Cds		

Total Cmpt Acres

3046

Acres Proposed For Cut..... 0

Proposed Treatments With NO Limiting Factors

Compartment: 59

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status

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

8/14/2007

Proposed Treatments With Limiting Factors

Compartment: 59 **Entry Year: 2009**

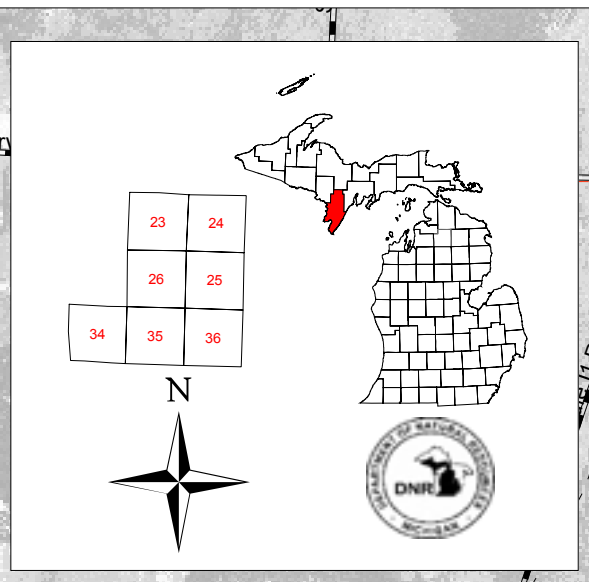
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status

TREATMENT LIMITING FACTORS:

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

Field Map

Compartment 59
T35N, R26W, Sec. 23-26, 34-36
County: Menominee
Unit: Escanaba
YOE: 2009
Acres: 3,046 GIS Calculated
Stand Examiner: Kelly Standerfer
Map Revised: 7/16/2007
Map Phase: Pre-review



Legend
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Stand Boundary
- Biodiversity/Old Growth Area

Dragic H3 Rd
G12 County Road 352 Rd.
North Lake
Little Lake
Big Brook

1 0.5 0 1 Miles