



**NEWBERRY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 58 ENTRY YEAR: 2009

Compartment Acreage: 4885 County: Chippewa

Revision Date: 8/2/07

Stand Examiner: Ed Rice

Legal Description: T49N R07W Sections 1 – 3, 9 – 15, 24

RMU (if applicable):

Management Goals: Promote multiple aged and diversified tree species where possible to reduce forest pest impacts and improve conditions for wildlife species. Retain/enhance the quality of recreational uses of the area. Provide for consistent, sustainable wood fiber production over the long term.

Soil and Topography: There is a large expanse of Dawson/Loxely peats. Deer Park Fine Sands, Croswell – AuGres sands, and Kinross Wainola complex soils mainly make up the remainder of the soils. The areas of Dawson/Loxely peats are seasonally ponded during spring run off and into mid summer, becoming ponded once again in late fall. There exist small inclusions of bog ponds. The upland soils are well drained. The topography is level to rolling, with short, steep slopes in areas.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Contiguous state ownership within the compartment boundary. Deer hunting within ¼ mile of access points demonstrates the heaviest use pattern. Private, non industrial ownerships border the compartment on the north side. State ownership borders the remainder of the compartment. Tahquamenon Falls State Park borders the south side of the compartment. Intensive timber management has occurred in the past and is ongoing.

Unique, Natural Features (include only non-site specific and non-sensitive information):

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): SHPPO has identified an archeological site of interest within the compartment

Special Management Designations or Considerations: MNFI has identified an ERA (Prison Camp Muskeg) within the compartment.

Watershed and Fisheries Considerations: Fisheries Values

Good. Fisheries Division does not actively manage any waters in this compartment, including the Betsy River. The South Branch Betsy River, however, is classified as Type 1 trout and has good numbers of native brook trout. Fisheries Division is planning to conduct a several-site electrofishing survey of the entire Betsy River system in 2007.

Wildlife Habitat Considerations: Compartment 58 lies in northwestern Chippewa county along the border of the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and the Seney Sand Lake Plain ecological sub-subsection. The compartment is dominated by treed bogs with jack pine ridges along the edges of the compartment. Scattered stands of red pine, aspen, and hardwood occur along the fringes of the compartment. Stand diversity is generally low as is overall diversity of the compartment. Pine ridges, streams and drainages provide excellent travel corridors.

Stand diversity will be maintained in jack pine final harvests with red oak, paper birch and aspen components being left after harvest. Leave trees will improve structural diversity, act as food sources, and nest and den trees. The overall integrity and hydrology of the compartment will be maintained by careful harvesting techniques to not impair the lowland areas. Buffer zones along streams, rivers and marshes will be established to preserve travel corridors and wetland wildlife values and habitats. Wildlife species potentially using the compartment include black bear, white-tailed deer, spruce grouse, bobcat, coyote, gray wolf, moose, otter, and mink.

Mineral Resource and Development Concerns and/or Restrictions: Sections 1 - 3, 9 – 14, 23 & 24, T49N-R7W, Chippewa County

Surface sediments consist of lacustrine (lake) sand and gravel and peat & muck. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was used as a building stone in the past. There are no gravel pits in the area, but there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access: Access around the borders of the compartment is good with maintained county roads throughout. Access into the compartment interior overall is poor with few to no roads. With previous timber harvests there are closed, temporary logging roads.

Survey Needs: None

Recreational Facilities and Opportunities: Snowmobile trail sharing the county road routes

Fire Protection: Large fire runs are possible with some continuous pine stands and open marshes. Road access through the compartment is poor providing little opportunities for fire lines if needed. Large marsh area near the center of the compartment may challenge suppression forces, normal suppression tactics may not be able to be used. Private property to the north may be at risk because of hazardous fuel types.

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

NEWBERRY FOREST MGT UNIT

CHIPPEWA COUNTY

COMPARTMENT: 58

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		25	18			6												65	114
Black Spruce							33												33
Bog or Marsh	22																		22
Grass	11																		11
Hemlock									16										16
Jack Pine		264	56		649	8	74	111	109										1271
Mx Swmp Cnfr																		54	54
Paper Birch																		9	9
Red Pine							30	49	150										229
Treed Bog	2933																		2933
Upland Hdwds																		64	64
Water	5																		5
White Pine		8						20	96										124
Total	2971	297	74		649	14	137	180	371									192	4885

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

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CHIPPEWA COUNTY

COMPARTMENT: 58

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	114																										114
S Black Spruce		33																									33
V Bog or Marsh			22																								22
G Grass					11																						11
H Hemlock						16																					16
J Jack Pine		8					1156								107												1271
Q Mx Swmp Cnfr												54															54
B Paper Birch															9												9
R Red Pine															229												229
D Treed Bog																						2933				2933	
M Upland Hdwds																								64		64	
Z Water																									5	5	
W White Pine																									124	124	
Total	114	41	22		11	16	1156					54			9	336						2933		64	5	124	4885

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

CHIPPEWA COUNTY

COMPARTMENT: **58**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3302 Cds	Hardwood	300 Cds
Hardwood	34 Mbf	Softwood	3464 Cds
Softwood	17943 Cds	Softwood	131 Mbf
Softwood	858 Mbf	Sum CutVol	4026 Cds
Sum TotVol	23029 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	155
4885			

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 58

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
37	J6	107	64	50	red pine	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : well formed j pine 8-12" dbh 4-6 sticks intergrown with r pine sawtimber/poletimber. Scattered b spruce at low ground edges. Stand is widely interspersed with small to mid sized low ground/leatherleaf openings, winterberry at their edges. Clearcut with reserves: Remove merchantable j pine, aspen and b spruce while avoiding the low ground/leather leaf openings. Mark r pine and w pine to 50-60 BA/ac. MO is for r pine, though expect a mixed stand to regenerate with the more open areas to j pine/aspen, heavier stocked residual pine areas to regenerate to r pine, w pine. Leave w birch, oak. Secondary MO is jack pine/aspen. Occurances of j pine may be left near to/adjacent to the lower leatherleaf openings. Scarify with follow up planting if necessary. Soil: Deer Park-Kinross complex</p> <p>Wld : leave paper birch and oak and a few larger aspen to increase diversity of mature species.</p>										
48	S6	12	56	46	black spruce-swamp	immature	final harvest	3		
<p>comnts Fmd : Mature j pine 7-10" dbh, b spruce poletimber 4-5 sticks 6-8"dbh. Light to moderate top kill on j pine. Heavy winterberry understory with interspersed small, lowland sedge openings -seasonally ponded. Associated w pine, r pine poletimber/sawtimber. S end of stand has adjacent lowland holding water - avoid. Clearcut with reserves: remove merchantable b spruce, j pine, leave w pine and r pine. Winter or dry summer operating seasons. MO is b spruce, secondary MO j pine. Soil: Kinross-Wainola complex</p> <p>Wld : leave white and red pine and a few large spruce, avoid the seasonally ponded areas with equipment. Watch for vernal ponds</p>										
49	R9	36	63	50	red pine	two aged	shelterwood-seed	2		
<p>comnts Fmd : r pine 10-14" dbh 1-3 logs, 4-6 sticks. Fair to moderate defect- crooks, limby. W pine, aspen component, j pine 8-10" dbh 4-7 sticks. S. end of stand has aspen/w pine inclusion. Shelterwood with reserves :: Remove merchantable aspen and jack pine. Thin r pine to 50-60 ba/ac, w pine to be marked for maneuverability only. MO is for r pine, though expect j pine, aspen to regenerate well in the more open areas after a cut. Retain a w pine component, w birch, oak and maple. Secondary MO is white pine/aspen</p> <p>Wld : try to leave most white pine, not much was present. Leave white birch, oak and maple and a few old dying, crooked aspen.</p>										
Total Acres.....		155								

**Proposed Treatments
With Limiting Factors**

Compartment: 58

Entry Year: 2009

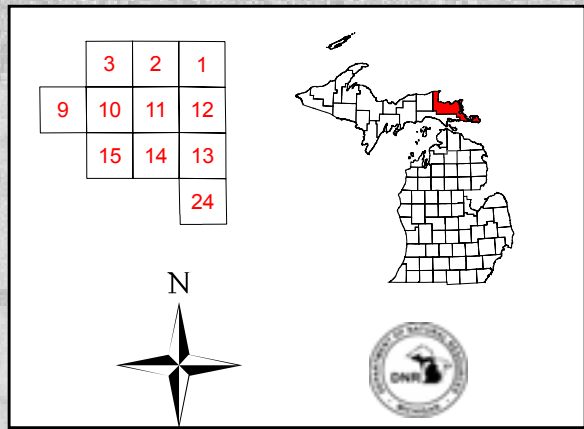
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 58
 T49N, R07W, Sec. 1-3, 9-15, 24
 County: Chippewa
 Unit: Newberry
 YOE: 2009
 Acres: 4,885 GIS Calculated
 Stand Examiner: Ed Rice
 Map Revised: 12/06/2007
 Map Phase: Pre-review



Legend

- RLS Corners
- Miris Corners
- Highways
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Water Features
- Snowmobile Trails
- Stand Boundary
- Special Conservation Areas
- 100 - Final Harvest
- 145 - Final Harvest/Natural Regeneration/Mechanical, other
- 300 - Shelterwood-seed

