



**NEWBERRY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 69 ENTRY YEAR: 2007

Compartment Acreage: 2057 (GIS Calculated) County: Chippewa

Revision Date: 10/18/05

Stand Examiner: Jason Tokar

**Legal Description: T48N R6W Sections 3, 4 & 5
T49N R6W Sections 27, 33 & 34**

RMU (if applicable):

Management Goals:

Maintain or improve the forest health and productivity through limited timber management while simultaneously protecting the unique natural communities found within the compartment. Increase age class and structural diversity in forested upland stands. Through any management, care should be taken to maintain the integrity of the sensitive communities associated with the patterned fen complex within the compartment.

Soil and Topography:

Lowland peat soils and muck soils dominate the compartment. Forested cover types on these lowland soils are mainly treed bogs, sub-merchantable, low quality cedar, and some open bogs. Subtle ridges and higher ground within the compartment are comprised of sand or sand loams producing forested cover types of white birch, white pine, red pine and black spruce. The topography of the compartment is primarily level, low ground with slight ridges in the eastern portions of the compartment and areas of higher ground along the western reaches of the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The compartment is entirely State owned. The compartment is bordered by private property to the east and to the north. The western boundary is bordered primarily by two large private land holdings, the Hiawatha Club and the Maranatha Preserve (wildlife preserve). To the south of the compartment lies the Tahquamenon Falls State Park. Land use and development are substantial to the east of the compartment with many small private parcels containing either permanent or seasonal residences along Lake Superior. Land use and development to the north is increasing with the parceling and sale of many private properties. The lands to the west and south of the compartment should see very little development with the State Park and the wildlife preserve. Due to the lowland nature and “inaccessibility” of the compartment, land use within the compartment boundaries will remain minimal.

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

MNFI lists the potential for various wildlife such as osprey, moose, eagle and Blanding’s turtle. There’s also the potential for unique plants such as yellow pitcher plant, English sundew, black crowberry and a host of others. Through old notes, photo interpretation and ground truthing, characteristics associated with patterned fens was found to exist within the compartment, possibly as an extension of the documented Patterned Fen to

the south of the compartment. MNFI has been notified and has recorded the findings. Black Creek flows through the compartment and out to Lake Superior.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

The Bureau of History does not list any records of historical features within the compartment.

Special Management Designations or Considerations:

Most of the compartment is a large complex of unique communities and features associated with the Patterned Fen. Those stands comprising the patterned fen and adjacent area have been designated as a Special Conservation Area (SCA). Possible effects on this system should be carefully considered when management activities take place.

Watershed and Fisheries Considerations

Fisheries Values

None.

Wildlife Habitat Considerations:

Compartment 69 lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection in northern Chippewa County. This compartment is dominated by bogs, marshes and lowland brush with a medium component of swamp conifers and scattered fir, birch and aspen stands. Current vegetation patterns are similar to what was expected during pre-settlement times.

The limited amount of harvesting scheduled for this compartment will ensure that adequate corridors are maintained. Harvested stands will maintain as much structural and species diversity as possible and remaining trees will provide food sources, nest and den trees, and improve stand diversity. Wildlife species potentially using this compartment include white-tailed deer, moose, black bear, gray wolves, grouse, and mink.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 27, 33, 34, T49N-R6W & Sections 3 - 5, T48N-R6W, Chippewa County

Surface sediments consist of lacustrine (lake) sand and gravel and peat and 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. Gravel pits are not located in the area and potential is unknown. There is no economic oil and gas production in the UP, although there was a recent well drilled in Schoolcraft County.

Vehicle Access:

The compartment is located one mile south of Paradise. The main access to the general vicinity of the compartment is via Highway M-123 to the east. Preacher Lakes Road approaches the compartment from the northwest but is gated at the private property. Vehicle access to the actual compartment is limited to those with permission to cross private land. There is some ORV activity in the southwestern portion of the compartment, coming from the adjacent private land.

Survey Needs:

Survey needs are dependent on access issues. If access is gained and timber management occurs, the following corners are needed: W1/16, SW1/16 and S1/16 of Section 27; ¼ corner between Sec 27 and 34; the N1/16, Center, and S1/16 of Section 34; the ¼ corner between Sections 32 and 5; the N1/16, Center, S1/16 of Section 5; the ¼ corner between Sections 5 and 8; and the Section corner common to Sections 4, 5, 8 and 9. These survey needs will be prioritized once it is certain whether or not access can be acquired.

Recreational Facilities and Opportunities:

The Paradise-Raco snowmobile trail runs through the eastern most part of the compartment. Other recreational opportunities are limited due to access through private land, but would include hunting, hiking, and wildlife viewing.

Fire Protection:

This area is part of the Whitefish Zone Dispatch Area. This area will have long response times and lowland conifers may make suppression activities difficult. Due to the presence of the patterned fen and associated sensitive soils, Minimal Impact Suppression Tactic (MIST) should be implemented when suppressing wildfires in the majority of the compartment.

Additional Compartment Information:

None

- **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: 69

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									25	4									29
Black Spruce								51	7	16									74
Bog or Marsh	592																		592
Cedar								13	92	94									199
Jack Pine										4									4
LowInd Brush	71																		71
Marsh	83																		83
Mx Swmp Cnfr								438	85										523
Paper Birch								17		6									23
Red Pine																		27	27
Spruce Fir							46	11											57
Treed Bog	322																		322
Water	7																		7
White Pine																		46	46
Total	1075						46	530	209	124								73	2057

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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: 69

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	29																										29
S Black Spruce		74																									74
V Bog or Marsh			592																								592
C Cedar				199																							199
J Jack Pine							4																				4
L LowInd Brush									71																		71
N Marsh											83																83
Q Mx Swmp Cnfr												523															523
B Paper Birch															23												23
R Red Pine																27											27
F Spruce Fir																			57								57
D Treed Bog																						322					322
Z Water																									7		7
W White Pine																										46	46
Total	29	74	592	199			4		71		83	523			23	27			57			322			7	46	2057

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

CHIPPEWA COUNTY

COMPARTMENT: **69**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1560 Cds	Hardwood	1344 Cds
Softwood	8758 Cds	Softwood	746 Cds
Softwood	261 Mbf	Softwood	29 Mbf
Sum TotVol	10840 Cds	Sum CutVol	2148 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
2057		119	

**Proposed Treatments
With NO Limiting Factors**

Compartment: 69

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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Total Acres..... 0

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 69

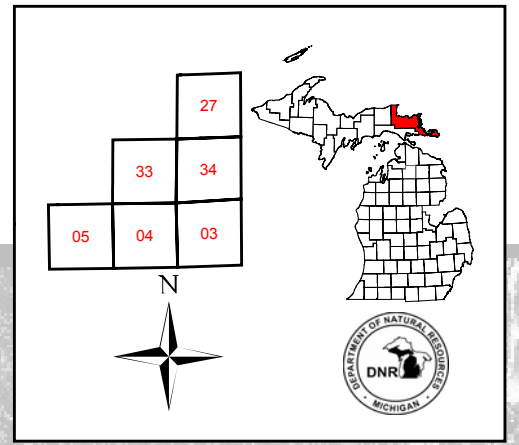
Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
5	F6	1	65	46	spruce-fir (uplands- including upland black spruce)	two aged	final harvest	2		
<p>TREATMENT LIMITING FACTORS: Adjacent landowner denies access Land survey needed Inadequate volume due to small acreage</p> <p>comnts Fmd : Large diameter white pine over lower quality red maple, white birch, spruce and balsam. Similar to stand 10 without the pockets of birch. Access is questionable across various land owners. Very small acreage. Limiting factors. Management objective is balsam fir with a mix of other species. Secondary MO would be northern hardwoods with a mix of other species. Halfaday sands.</p>										
6	F6	10	65	46	spruce-fir (uplands- including upland black spruce)	two aged	final harvest	2		
<p>TREATMENT LIMITING FACTORS: Adjacent landowner denies access Land survey needed</p> <p>comnts Fmd : Large diameter white pine over lower quality red maple, white birch, spruce and balsam. Similar to stand 10 without the pockets of birch. Access is questionable (whitefish township schools). Prescribe for final harvest if we gain access. Limiting factors. Management objective is balsam with a mix of other species. Secondary MO would be northern hardwoods with a mix of other species. Halfaday sands.</p>										
10	F6	46	56	46	spruce-fir (uplands- including upland black spruce)	two aged	seed tree	2		
<p>TREATMENT LIMITING FACTORS: Adjacent landowner denies access</p> <p>comnts Fmd : Mixed stand of maple, white birch, spruce, balsam, white pine, red pine, some red oak and some hemlock. Low quality in the maple, birch, spruce and balsam. Pockets of high BA of white birch with many dead tops. Access could be possible via snowmobile trail off of M-123 across private land. Mortality in the white birch throughout the stand. Harvest all species except white pine, red pine, red oak, and hemlock. Management objective is balsam with a component of white birch, spruce and hardwoods. Secondary MO would be northern hardwoods with a mix of other species. Halfaday sands and Kinross-Augres sand loam as the soil types. Possible to harvest in non-winter months to avoid conflict with snowmobile trail</p>										
32	S6	16	85	30	black spruce-swamp	mature	final harvest	3		
<p>TREATMENT LIMITING FACTORS: Adjacent landowner denies access Land survey needed</p> <p>comnts Fmd : Nice quality spruce stand. Some white pine and scattered white birch. Access is a problem. Prescribe for harvest. Management objective is black spruce. Secondary MO is white pine with a spruce component. Kinross-Wainola soil complex.</p>										
35	B6	17	67	46	paper birch	two aged	seed tree	3		
<p>TREATMENT LIMITING FACTORS: Adjacent landowner denies access Land survey needed</p> <p>comnts Fmd : White birch, red maple, large diameter white pine, some spruce and balsam. Scattered hemlock mainly in lower areas. Some mortality in white birch. Access is a problem. Prescribe for a seed tree harvest. Management objective is white birch. Secondary management objective is northern hardwoods with a white birch component. Deer park-Kinross soil complex.</p>										
37	A6	25	69	50	aspen (upland)	mature	final harvest	3		
<p>TREATMENT LIMITING FACTORS: Adjacent landowner denies access Land survey needed</p> <p>comnts Fmd : Old, mature aspen stand with mortality in the aspen throughout. Some white birch mortality. Thick understory of balsam. Access is very questionable through a gated private club. Management objective is aspen. Secondary MO is white birch with an aspen component. Markey-Kinross-Au Gres soil complex</p>										
46	A6	4	81	46	aspen (upland)	mature	final harvest	2		
<p>TREATMENT LIMITING FACTORS: Adjacent landowner denies access Land survey needed</p> <p>comnts Fmd : Small acreage of mature aspen along the edge of a marsh. Red maple, large diameter white pine and scattered white birch and red oak. Access is questionable (Whitefish Township School property). Prescribed for final harvest. Management objective is aspen. Secondary MO would be northern hardwoods with an aspen component.</p>										

Total Acres..... 119

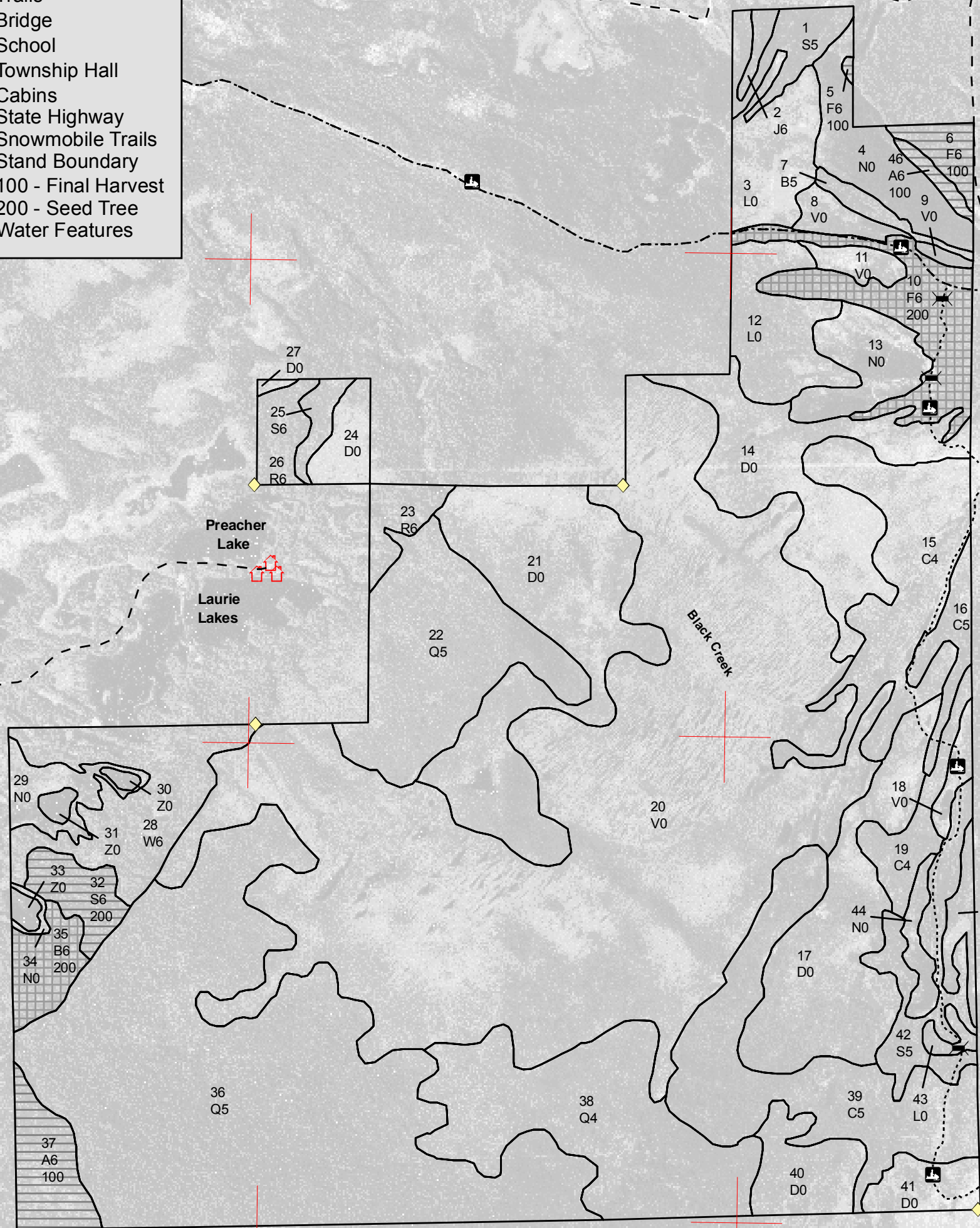
Field Map

Compartment 69
 T48N, R6W, Sec. 3-5
 T49N, R6W, Sec. 27, 33, 34
 County: Chippewa
 Unit: Newberry
 YOE: 2007
 Acres: 2,057 GIS Calculated
 Stand Examiner: Jason Tokar
 Map Revised: 11/04/2005
 Map Phase: Pre-review



Legend

- ◆ RLS Corners
- Miris Corners
- - Poor Dirt Roads
- ⋯ Trails
- ⌵ Bridge
- 🏫 School
- 🏠 Township Hall
- 🏠 Cabins
- 🛣️ State Highway
- 🚙 Snowmobile Trails
- ▭ Stand Boundary
- ▨ 100 - Final Harvest
- ▩ 200 - Seed Tree
- Name** Water Features



Whitefish Township School
 Whitefish Township Hall

