



**NEWBERRY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT #50 ENTRY YEAR: 2004

Compartment Acreage: 2,484 (GIS Calculated) County: Luce

Revision Date: 9/19/2005

Stand Examiner: Brad S. Carlson

Legal Description: T48N R8W Sections 29, 30, 31 and 32.

RMU (if applicable):

Management Goals:

To maintain a healthy sustainable forest with special consideration to wildlife and fisheries habitat.

Soil and Topography:

A wide variety of soil types occur within this compartment. Majority of the upland soil types are sand and sand complexes (Kalkaska and Wallace are most common). There are four lowland soil types in the compartment with the Carbondale, Lupton and Tawas type being the most common. Topography is a mixture of fairly flat to gently rolling hills in the north to more abrupt ridges in the south.

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

State land borders the compartment the north and south. Several small parcels of private ownership border the compartment to the west where some of the owners have harvested timber from their parcels, with the majority using their land for recreational purposes. To the east is a mixture of state and private ownerships. There is a hunting club which owns a large parcel of land which they have clearcut a large portion in the past to increase wildlife habitat. Other private ownerships seem to be using their land primarily for recreation.

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):

Evidence of Past logging activity from the charcoal days of the 1930's is readily available throughout the compartment. Old railroad grades and old logging camp sites can still be distinguished from the surrounding landscape and in some cases old equipment can be found.

Special Management Designations or Considerations:

BMP guidelines should be followed around the intermittent streams, Linton and Baird creek watercourses. Most of the management will occur in the summer months and special care should be taken to keep the Camp Seven road and Charcoal grade good enough shape to be passable with a two wheel drive vehicle as these roads are heavily used to access private ownerships along the Tahquamenon river.

Watershed and Fisheries Considerations

Fisheries Values

Good. Baird, Penny, and the Linton Creek system are designated trout waters. The streams are small and relatively hard to find, but worth the effort. We have not surveyed them recently. Stay 125 feet away from these creeks when harvesting prescribed stands.

Wildlife Habitat Considerations:

Compartment 50 lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. This compartment lies immediately north of a deer yard complex. The compartment is comprised of large hardwood stands mixed with swamp conifers, lowland brush and swamp hardwoods. The compartment appears to have a greater hardwood component than during presettlement times.

Maintaining structural and species diversity as much as possible in harvested stands will help achieve wildlife objectives in this compartment. Hemlock and cedar are being retained compartment wide. Leave trees will provide food sources, nest and den locations and improved stand diversity. Species utilizing this compartment include white-tailed deer, black bear, moose, gray wolf, American marten, fisher, mink, otter, and ruffed grouse.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 20, 29 - 33, T48N-R8W, Luce County. Surface sediments consist of lacustrine (lake) sand and gravel and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau and Munising Formations subcrop below the glacial drift. The Trempealeau could be used for stone. A gravel pit is located in Section 22 and potential is good on the uplands. There is no economic oil and gas production in the UP, although there was a recent well drilled in Schoolcraft County.

Vehicle Access:

Access to the majority of the compartment is readily available to the public through the Camp Seven road which comes off M-123 and passes through sections 29 and 32 where it connects to the charcoal grade which exits the compartment to the south. There are two forest roads which are heavily traveled by vehicles/ATVs that connect the Fordney Tower road to the Camp Seven road.

Survey Needs:

None. Remonumentation survey took place along west township line during the summer. All other corners that border private were located.

Recreational Facilities and Opportunities:

Snowmobile trail runs through compartment and consideration should be given to keep harvesting operations to the snowmobile "off-season".

Fire Protection:

Fires in this compartment should remain small and slow growing because of hardwood and swamp conifer types. The quantity of low ground in this compartment may limit use of fire fighting equipment.

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

LUCE COUNTY

COMPARTMENT: 50

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			19	20					11										50
Black Spruce											9							16	25
Bog or Marsh	4																		4
Cedar							19												19
Grass	52																		52
LowInd Brush	122																		122
Mx Swmp Cnfr				51														51	572
Spruce Fir			7	46	7	90												45	195
Swamp Hrdwds				41														104	145
Treed Bog	2																		2
Upland Hdwds							12											1286	1298
Total	180		26	158	7	90	31		11		9							1972	2484

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

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 50

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	50																										50
S Black Spruce		25																									25
V Bog or Marsh			4																								4
C Cedar				19																							19
G Grass					52																						52
L Lowlnd Brush									122																		122
Q Mx Swmp Cnfr												572															572
F Spruce Fir																			195								195
E Swamp Hrdwds																				145							145
D Treed Bog																						2					2
M Upland Hdwds																								1298			1298
Total	50	25	4	19	52				122			572							195	145		2		1298		2484	

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **50**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	34087 Cds	Hardwood	12366 Cds
Hardwood	3450 Mbf	Hardwood	2512 Mbf
Softwood	19333 Cds	Softwood	1951 Cds
Softwood	2149 Mbf	Sum CutVol	19341 Cds
Sum TotVol	64618 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	1179
2484			

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 50

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
11	M6	314		52	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Soils= Adams loamy sand. Large aspen scattered throughout stand, several dying or dead. Stand transitions from solid sugar maple on higher ground to solid red maple on lower sites. BBD scale present on few beech in stand. Cut all aspen balsam and beech in stand. Ground cover has sheild and lady fern present. 91= species 20, 39 and 04. Northern hardwoods is the management objective for this stand.</p> <p>Wld : leave all hemlock, yellow birch and a beech component.</p>										
17	M6	234		60	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Nice stand of northern hdwds with large aspen scattered throughout. Stand transitions from solid sugar maple to solid red maple in areas. Areas along old road and railroad grades are thick to balsam along with areas to the north of stand 18. Remove balsam when thinning maple. 99= species 04, 07 and 49. 98= species 20 and 21. Excellent access to stand from nearly all directions. BBD scale notices on the few beech that are in the stand, remove beech when harvesting. Northern hardwoods is the management objective for this stand.</p> <p>Wld : leave white pine, hemlock, yellow birch and a beech component</p>										
20	M6	25		60	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : A drainage separates this stand from stand 8 to the NE. Old grade runs north through stand. A well used forest road/ atv trail runs east west through stand. Good amount of large aspen along road and grade in stand, some of it is dying. Remove all aspen and balsam when harvesting. Mountain ash seen in stand. BBD scale noticed on the few beech that are in the stand, remove beech when harvesting. Northern hardwoods is the management objective for this stand.</p> <p>Wld : leave a beech component, mountain ash and a conifer component. Leave all hemlock</p>										
23	M6	94		55	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Old railroad grade provides excellent access into stand form the east edge of stand through the grassy opening. Understory is a mix of balsam and red maple saplings. 99= beech, yellow birch and Amelanchier. BBD scale noticed on few beech in stand, remove beech when harvesting. Intermittent stream to the south and a few drainages in southern part of stand. Northern hardwoods is the management objective for this stand.</p> <p>Wld : leave a beech and conifer component. Leave yellow birch and hemlock.</p>										
37	M6	12		55	northern hardwood	unevenaged	selection	3		
<p>comnts Fmd : Soils are Zandi silt loam. Stand is a ridge which connects stands 11 to 40 and 42. Ridge is steep on east side of road which runs through the stand. Should be combined with stand 40 or 42 when harvesting. Northern hardwoods is the management objective of this stand.</p> <p>Wld : leave hemlock, yellow birch and cedar.</p>										
39	M6	27		60	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Ridge on north side of stand may pose skidding problems. Nice stand of poles and logs. Access will have to be gained from the compartment to the east off the charcoal grade. Separated from stand 40 by a low drainage area. Soils are a Laminga fine sand. Northern hardwoods is the management objective for this stand.</p> <p>Wld : leave any hemlock, yellow birch and a conifer component</p>										
40	M6	38		65	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Soils are a Zandi Silt loam. Stand has a few low wet areas in, most of them occur on the south side of road where there are some pockets of blowm over trees. 98= species 30, 20 and 21. Cut some spruce and balsam when harvesting. Northern hardwoods is the management objective for this stand.</p> <p>Wld : leave all hemlock and some spruce, balsam, or white pine. Leave Yellow birch</p>										
42	M6	34		55	northern hardwood	unevenaged	selection	3		
<p>comnts Fmd : Soils are a Zandi Silt loam. Stand is a ridge of nicley stocked poles, that has a few wetter swails running through it. These swails resemble more of an "E" type, consider these when considering time of year to harvest. Northern hardwoods is the management objective of this stand.</p> <p>Wld : leave white pine, yellow birch and any hemlock.</p>										
45	M6	74		50	northern hardwood	unevenaged	selection	3		
<p>comnts Fmd : soils are a Auger silt loam. Old railroad grade runs through stand and could be used for access. There is an old road starting from the charcoal grade in the "G" type running NW until it hits the old railroad grade which also provides excellent access. Some areas in stand are of lower basal area and could wait one more rotation. Balsam pockets in stand are the site of old clearings and roads. 99= ironwood and yellow birch. A few drainages in stand. Northern hardwoods is the management objective for this stand. Intermittent stream to the south in cedar stand.</p> <p>Wld : Leave hemlock, yellow birch, white pine and spruce component</p>										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 50

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
48	A6	11	75	75	aspen (upland)	mature	final harvest	2		

comnts Fmd : Stand is large overmature aspen that should be harvested this rotation. Stand has excellent access. Soils are an Auger silt loam. 99= species 01 and 03. Aspen is the management objective of this stand, but a regenerating stand of spruce-fir mix would an acceptable secondary management objective.

Wld : keep a conifer component

Total Acres..... 863

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
1	M6	55		55	northern hardwood	unevenaged	selection	2		
TREATMENT LIMITING FACTORS: Other Dept./Div. procedures or practices (describe in comment)										
comnts Fmd : 99= species 04, and 07. 98= species 20, 21, and 25. Areas of stand could be considered M7. Stand is ready to be selectively harvested, but should be held off until stand 58 in Comp 48 to the north is prescribed. There is much better access to the north. Land owner to the east has a stick blind located in the stand. Balsam and spruce should be cut and cedar, white pine and hemlock should be retained. There is a small volume of beech which should be cut in stand because it is severely. Northern hardwoods is the management objective for this stand. Soils are a Adams loamy sand.										
Wld : do not cut cedar, hemlock, white pine or yellow birch										
3	M6	16		55	northern hardwood	unevenaged	selection	3		
TREATMENT LIMITING FACTORS: Other Dept./Div. procedures or practices (describe in comment) Road needed (resources not presently available)										
comnts Fmd : Best access appears to be from the north. Should be harvested along with stand 1 if access permits. Stand boundry adjacent to L type shows beaver activity. Northern hardwoods is the management objective for this stand. BBD is in surrounding stands and may be in this stand, if found infected stems should be removed.										
Wld : leave a beech component, Leave yellow birch and hemlock. Retain a conifer component										
6	M6	29		65	northern hardwood	unevenaged	selection	2		
TREATMENT LIMITING FACTORS: Other Dept./Div. procedures or practices (describe in comment)										
comnts Fmd : A lot of nice stems. Access is better if combined with stand to the north in Comp 48. Old clear cut is to the east between stand and Camp Seven road. Large aspen scattered throughout. Soil is Auger Silt loam. 98= species 30 and 39. Northern hardwoods is the management objective for this stand.										
Wld : leave hemlock, white pine and yellow birch.										
26	M6	111		60	northern hardwood	unevenaged	selection	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available)										
comnts Fmd : Possible access through private on west, a road enters stand from west (through private) to west 1/4 corner. If access cannot be obtained a 1000 feet of road will need to be put in along west property line trough stands 17 and 25. A culvert will be needed in stand 25 where an intermittent stream exists. Once that road is in the old railroad grade running east- west in sec 31 may be used to access east half of stand and stand 32. 99= species 01, 04 and 07. BBD scale noticed on the few beech in stand and should be taken out. Northern hardwoods is the management objective of this stand.										
Wld : leave a beech component. Leave yellow birch and hemlock.										
28	M6	1		55	northern hardwood	unevenaged	selection	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Other Dept./Div. procedures or practices (describe in comment)										
comnts Fmd : Stand is separated by stand 29 by a drainage swail that is thick with hemlock (look on photo). Very poor access through state, a lot of road work needed. Can be accessed through private, but several easements need to be obtained and last attempts have failed. Old logging activity evedent. Hunting activity noted in stand. 98= species 20 and 30, cut balsam and leave white pine. Northern hardwoods is the management objective of this stand. If treatments are attempted, it is best to combine with compartment to the south.										
Wld : leave beech component, all hemlock and yellow birch . Retain white pine										
29	M6	4		60	northern hardwood	unevenaged	selection	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Other Dept./Div. procedures or practices (describe in comment)										
comnts Fmd : More rolling terrain than other stands in comp, more variability. Old roads coming into stand from south and west that are currently being used by atv's to access their deer blinds. Access is fairly lengthy if easement is granted through the Bernice Bishop lands coming off M-123 and then through compartments 80 and 77. Roads do exist and have been used by atv's but need minor improvements for log truck traffic (replacing a few culverts and blading off brush). May be better off waiting until stands in either comp 80 or 77 are harvested. Stand is separated by other stands by drainages that are thick to hemlock. Northern hardwoods is the management objective of this stand.										
Wld : leave hemlock, yellow birch, and a beech component.										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 50

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
32	M6	18		60	northern hardwood	unevenaged	selection	3		

TREATMENT LIMITING FACTORS: Road needed (resources not presently available)

comnts Fmd : Nicest stand of poles in compartment. Very high Quality. Old road located in southern part of stand. Best access is to come from north through stands 25 (see stand 26 comments), 26 and 402. Road will need to be put in off of old railroad grade and through grassy opening (stand 402) to NW side of stand to avoid large ridge that runs from the NW side of stand down the W edge to the south. Balsam on edges of stand. 99= species 04 and 07. BBD scale noticed on the few beech that are in stand. Northern hardwoods is the management objective of this stand.

Wld : leave hemlock and yellow birch. Leave a beech component and conifer component of white pine or balsam

44	M6	38		50	northern hardwood	unevenaged	selection	3		
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TREATMENT LIMITING FACTORS: Road needed (resources not presently available)
Too wet

comnts Fmd : Old white pine stumps still exist in stand. Access is very questionable, old grade from west provides best access, but may be too wet when it crosses stand 35. Nice quality sawlogs in stand. See stand 26 comment for grade access from west (road is needed). 98= species 21, 30 and 39. Small drainages in lower areas. Northern hardwoods is the management objective for this stand.

Wld : leave white pine and hemlock. Leave a beech component if in the stand

49	M9	32		60	northern hardwood	unevenaged	selection	3		
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TREATMENT LIMITING FACTORS: Road needed (resources not presently available)

comnts Fmd : Soils are a Zandi silt loam. Access is very questionable to this stand, very old road appears to enter stand from the south, but am not sure where it comes from (possibly from the Ball camp road from compartment to the south). Stand is of very high quality, vaneer seems to running high. This stand appears to have been missed when area was cut over during the charcoal days in the 1930's. Edges are impeded by beaver activity. Northern hardwoods is the management objective of this stand.

Wld : leave hemlock and white pine if any. Retain beech component if present

54	M6	12		60	northern hardwood	unevenaged	selection	3		
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TREATMENT LIMITING FACTORS: Road needed (resources not presently available)
Other Dept./Div. procedures or practices (describe in comment)













comnts Fmd : More rolling terrain than other stands in comp, more variability. Access is fairly lengthy if easement is granted through the Bernice Bishop lands coming off M-123 and then through compartments 80 and 77. Roads do exist in adjacent stand (stand 29) and have been used by atv's but need minor improvements for log truck traffic (replacing a few culverts and blading off brush), then only a short road and a culvert/portable bridge will need to be put in. May be better off waiting until stands in either comp 80 or 77 are harvested. Separated by other stands by a thick hemlock drainage. Northern hardwoods is the management objective of this stand.

Wld : leave all hemlock and yellow birch. Retain beech component if present

Total Acres..... 316

Field Map

Compartment 50
 T48N, R8W, Sec. 29, 30, 31, 32
 County: Luce
 Unit: Newberry
 YOE: 2007
 Acres: 2,484 GIS Calculated
 Stand Examiner: Brad Carlson
 Map Revised: 11/07/2005
 Map Phase: Pre-review

- Legend**
-  RLS Corners
 -  GPS Corners
 -  Gravel Roads
 -  Poor Dirt Roads
 -  Closed Roads
 -  Abandoned Railroads
 -  Trails
 -  Water Features
 -  Snowmobile Trails
 -  Stand Boundary
 -  100 - Final Harvest
 -  800 - Selection
 - Name Public Gravel Roads
 - Name Water Features

