



**NEWBERRY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 122 ENTRY YEAR: 2007

Compartment Acreage: 2024 (GIS Calculated) County: Luce

Revision Date: 11/05/05

Stand Examiner: Keith Magnusson

Legal Description: T45N R10W Sections 22, 23, 24, 25, 26 & 27

RMU (if applicable):

Management Goals:

Timber management, wildlife habitat and recreation such as hunting, skiing and snowmobiling are the main uses of the compartment. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses through proper management.

Soil and Topography:

Topography is rolling and varies from fairly level to steep and would be mostly characterized as upland. Soil type is mostly made up of Kalkaska and Wallace sands. There are a few small areas of muck which support wetland plant species.

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

The compartment is surrounded by private land on the north and west sides, by State land to the east and a mixture of State and private on the south. Due to its close proximity to the town of Newberry, this land is frequently used by people for a variety of recreational uses such as hunting, skiing, walking, bicycling, cross country running, snowshoeing and snowmobiling. 440 acres of State land in this compartment is leased to Luce County for the purpose of economic development.

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

This compartment contains a majority of the Canada Lakes Pathway, a two mile segment of designated snowmobile trail, one half mile of designated ORV trail, Canada Lakes and a portion of Melvin Lake.

MNFI lists the potential for red shouldered hawk, goshawk, eagle, osprey, moose and osprey. They also list the potential for pine drops, climbing fumitory and false violet in the pine types. They also list the potential for sweet coltsfoot, Wiegand's sedge, English sundew, round-leaved orchis, black crowberry, yellow pitcher plant and panicked screwstem in bog types.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None listed.

Special Management Designations or Considerations:

Due to the close proximity to the town of Newberry, the Canada Lakes Pathway is a frequently used by a variety of recreation enthusiasts. Special consideration should be taken when land management decisions that are made for this area.

Watershed and Fisheries Considerations

Fisheries Values

None.

Wildlife Habitat Considerations:

Compartment 122 lies in the St. Ignace ecological sub-subsection in southern Luce County. The compartment is fairly diverse in upland habitat types with a good mix of hardwoods, aspen, and white and red pine stands. Hardwoods dominate the western portions of the compartment while aspen and pine predominate in the eastern half of the compartment. Pre-settlement forests may have had a higher percentage of conifer stands than current vegetation.

Maintaining structural and species diversity as much as possible in harvested stands will help achieve wildlife objectives in this compartment. The retention of hard and soft mast producing trees, wildlife den and nest trees, snags and the preservation of conifer components in aspen and hardwood stands will benefit wildlife species using the area. Hemlock and a component of beech will be retained in all stands. White-tailed deer, black bear, snowshoe hare, gray wolf, coyotes and fox, marten and ruffed grouse are noteworthy wildlife species using this compartment.

Mineral Resource and Development Concerns and/or Restrictions: Sections 22 – 27, T45N-R10W, Luce County

Surface sediments consist of lacustrine sand and gravel and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Silurian Cabothead Shale and Manitoulin Dolomite subcrop below the glacial drift. The Manitoulin could be quarried for stone. A gravel pit is located in Section 21 and potential is good. There is no economic oil and gas production in the UP, although there was a recent well drilled in Schoolcraft County.

Vehicle Access:

The main access to this compartment is via County Road 403. The Section 34 Road runs across most of the southern part of the compartment. There are several two tracks and woods roads that give access to most of the compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The Canada Lakes Pathway offers skiing opportunities in the winter as well as hiking, walking, cross-country running and bicycling in the summer. A portion of a designated snowmobile trail runs through the compartment as well as a portion of a designated ORV trail. Hunting is also popular in this area.

Fire Protection: The compartment has good road access for fire suppression activities. Small stands of conifer intermixed with hardwoods and a short response time keeps the potential for large fires low in this 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

LUCE COUNTY

COMPARTMENT: 122

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS													All Aged	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
Aspen			60	41		6	147	50										70	374
Black Spruce								3	13										16
Bog or Marsh	16																		16
Grass	11																		11
Hemlock									4									28	32
Jack Pine				5															5
Marsh	1																		1
Mx Swmp Cnfr									25									16	41
Non Stocked	5																		5
Red Pine						91	82												173
Spruce Fir					17	18	63												98
Treed Bog	38																		38
Upland Brush	50																		50
Upland Hdwds		1					15											1059	1075
Water	13																		13
White Pine							11											65	76
Total	134	1	60	46	17	115	318	53	42									1238	2024

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

LAKE SUPERIOR STATE FOREST

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LUCE COUNTY

COMPARTMENT: 122

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	374																										374
S Black Spruce		16																									16
V Bog or Marsh			16																								16
G Grass					11																						11
H Hemlock						32																					32
J Jack Pine							5																				5
N Marsh											1																1
Q Mx Swmp Cnfr												41															41
X Non Stocked													5														5
R Red Pine																173											173
F Spruce Fir																			98								98
D Treed Bog																							38				38
U Upland Brush																								50			50
M Upland Hdwds																								1075			1075
Z Water																									13		13
W White Pine																										76	76
Total	374	16	16		11	32	5				1	41	5			173			98			38	50	1075	13	76	2024

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 122

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	25675 Cds	Hardwood	9033 Cds
Hardwood	2229 Mbf	Hardwood	498 Mbf
Softwood	8448 Cds	Softwood	2000 Cds
Softwood	1051 Mbf	Softwood	160 Mbf
Sum TotVol	40683 Cds	Sum CutVol	12349 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
2024		973	

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 122 Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
1	M6	13		60	northern hardwood	unevenaged	selection	3		
comnts Fmd : Old logging roads within the stand. Black-knot on Cherry. Aspen is large/tall. Large WP scattered throughout the stand. Balsam fir is merchantable and is a significant component to the stand. Beech has scale. Access will have to be through PVT land to treat stand. 99=03,01										
Wld : leave scattered white pine, leave hemlock and yellow birch if any										
2	M9	7		60	northern hardwood	unevenaged	selection	3		
comnts Fmd : Old logging road through stand. If treated, stand will have to be accessed through PVT land. Large WP scattered through stand. Trees have defects; if treated quality of timber may be improved/enhanced. 99=03,49,01. Beech has scale.										
Wld : leave hemlock, yellow birch, a beech component and scattered conifer										
13	M6	39		63	northern hardwood	unevenaged	selection	2		
comnts Fmd : Stand was lightly thinned/TSI's in 1978, T.Sale#017-78. Treat stand to encourage regeneration and enhance residual stand. Beech scale present. Quality site. Access may be problem, PVT land all the way around. Old abandoned deer blinds throughout stand. 99=07,03,49,61.										
Wld : leave a beech component and a conifer component if present										
16	M6	17		60	northern hardwood	unevenaged	selection	2		
comnts Fmd : Old road running through stand leading from the Old Engadine Road. Beech has scale, black knot on cherry. Good site, but many of the trees had defects/form problems. 99=03,07										
Wld : leave conifer and a cherry component										
19	M6	9	50	60	northern hardwood	mature	improvement	3		
comnts Fmd : Stand was cut about 50 years ago. It looks to have been cut hard with a few large SM left standing. The stand came back to b. fir, maple and cherry and is essentially even aged. Remove b. fir to release maple regen. Some 4-5 stick balsam in here, avg. is 3 sticks.										
Wld : leave yellow birch, hemlock and cherry and conifer component										
20	M6	30		61	northern hardwood	unevenaged	selection	2		
comnts Fmd : Stand contains rolling topography, it gets steep on the east side of the stand, the topography is the reason for the difference between stand 20 & 21. Use judgement when running boundary lines keeping operability of equipment in mind. Beech has scale. Quality site. 99=03,07.										
Wld : leave a cherry component and conifers. Leave hemlock if present										
21	M6	17		61	northern hardwood	unevenaged	selection	2		
comnts Fmd : This stand is situated on rolling to steep topography that may be inoperable in places. If stand is treated, mark only the areas where it is operable for equipment. Beech has scale. 99=03,07										
Wld : leave a beech component and any hemlock										
22	M6	145		63	northern hardwood	unevenaged	selection	2		
comnts Fmd : Stand has rolling topography. Part of this stand was thinned in 1998, T.Sale#097-01. BA's still around~100-120. Beech has scale. This is a high quality hardwood site. 99=49,07,03.										
Wld : leave cherry component and all the conifer										
24	M9	3		60	northern hardwood	unevenaged	selection	3		
comnts Fmd : Stand falls on a hillside that may be difficult to access with the low pocket to the east and the PVT land to the north and west. 99=07,04,49										
Wld : leave hemlock, and a cherry and yellow birch component										
26	M9	29		62	northern hardwood	unevenaged	selection	2		
comnts Fmd : Quality hardwood site. Some trees are getting old and defective. Nice poles coming along, not much for young saps. Some large/old aspen scattered in the stand as well as occassional WP. Beech has scale. 99=04,07,03.										
Wld : leave a white pine component, a beech and cherry component, and hemlock										
27	M9	12		61	northern hardwood	unevenaged	selection	3		
comnts Fmd : Stand was treated in 1973, sale #025-73. Saps/seedlings on the ground ~5-20' tall. Lightly treat again to further release and enhance stand. Beech has scale. Quality site. 99=07,03,49,01										
Wld : leave conifers and a beech component										
30	M6	9		60	northern hardwood	unevenaged	selection	2		
comnts Fmd : This stand is situated on ridges that are steep in places and possibly inoperable on the N. end of stand. Use judgement if treated with establishing boundary lines and marking stand. Beech has scale. Quality site.										
Wld : do not cut any conifers, leave a beech component										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 122 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
33	M6	24		60	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Stand has a lot of poor quality stems, defective. Beech has scale. Stand has plenty of maple seedlings/saplings in the understory, M2/M3. SW corner of stand has spruce/balsam with F2/M2 understory. Treat stand to remove some undesirable trees and release saps/encourage new regen. 99=03,07</p> <p>Wld : leave a beech and a conifer component and all hemlock.</p>										
35	M6	2		63	northern hardwood	unevenaged	selection	3		
<p>comnts Fmd : Stand is very similar to surrounding stand 22. The only difference is topography. Most of this stand falls on a steep hillside that may be inoperable. If treated, use judgement when marking keeping equipment limitations in mind. Beech has scale. 99=07,49,03</p> <p>Wld : leave a beech and cherry component and conifers</p>										
36	M6	2		63	northern hardwood	unevenaged	selection	3		
<p>comnts Fmd : Stand is very similar to surrounding stand 22. The only difference is topography. Most of this stand falls on a steep hillside that may be inoperable. If treated, use judgement when marking keeping equipment limitations in mind. Beech has scale. 99=07,49,03</p> <p>Wld : leave beech and cherry component and conifers</p>										
37	M9	28		63	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Much of the hardwood within the stand is large, overmature and defective making the quality of timber lower. The site has good potential though. Beech has scale. There are occasional hemlock, WP and yellow birch throughout stand. Stand has some sensitive areas that may be prone to rutting if harvested in the wrong time of year. Mid-summer cut would be optimal.</p> <p>Wld : leave hemlock, yellow birch and a beech component. Leave white pine.</p>										
38	M9	15		63	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Many trees have defects, black knot on cherry, cankers on maple, scale on beech. Some poor form trees. Site has good potential. 99=07,04,49.</p> <p>Wld : leave conifers, and a cherry, beech and yellow birch component and all hemlock</p>										
39	M9	14		63	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Stand is mostly situated along the back of a ridge. There is an old ski trail along the top of this ridge. A lot of old, overmature, defective trees. West side of ridge has a thick b. fir understory. Beech has scale. 99=49,07,04,07</p> <p>Wld : leave a beech, cherry and yellow birch component. Leave hemlock and a conifer component</p>										
41	M9	2		63	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd :</p> <p>Wld : leave a yellow birch, beech and cherry component. Leave all hemlock</p>										
45	M9	23		55	northern hardwood	unevenaged	selection	3		
<p>comnts Fmd : Stand is situated on rolling topography. Conifers mixed throughout and around stand. Many of the hardwood trees have defects and/or poor form. Beech has scale. 99=10,49,04,07 98=49,20,21,30,39</p> <p>Wld : leave all conifers, and a beech, cherry and yellow birch component</p>										
54	M6	62		60	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Stand has aspen mixed throughout. Harvest aspen and mark some hardwood species. Aspen is tall and large in diameter. Beginning to die out. Beech has scale. 99=04,07 Secondary Management Objective would be aspen.</p> <p>Wld : leave hemlock, yellow birch and whit epine. Leave a cherry and paper birch component</p>										
56	A5	64	55	50	aspen (upland)	mature	final harvest	3		
<p>comnts Fmd : Stand mostly aspen and maple with white pine mixe throughout. WP is limby/bushy. WP and maple regeneration is thick throughout stand. Aspen is not the best quality. Cherry, balsam and spruce mixed through stand. Secondary Management Objective would be White Pine or a mix that is currently here.</p> <p>Wld : leave white pine, cherry, hemlock and a few patches of conifer</p>										
58	R6	78	55	60	red pine	mature	thinning	3		
<p>comnts Fmd : Entire stand was thinned in 1999; T.sale#001-98. South 2/3 of stand was thinned in 1989; T.sale#004-87. Stand BA ranges from 120-190. Could be thinned again, crown canopy has begun to close up. Mark trees within the rows that were left. Soil=Kalkaska (burned).</p> <p>Wld : leave white pine and hemlock</p>										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 122 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
62	A6	70		62	aspen (upland)	unevenaged	selection	2		
<p>comnts Fmd : Stand is a mix of aspen and white pine with maple, cherry, spruce, balsam and p. birch throughout. If treated, harvested aspen, birch, spruce, balsam, maple and cherry. Leave WP. Stand is mixed age, old/young WP/aspen/balsam. Secondary Management Objective would be White Pine or a mix that is currently here.</p> <p>Wld : leave white pine, hemlock, paper birch and cherry component</p>										
65	A6	28	60	68	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : If treated, harvest all aspen, spruce, balsam, paper birch and red maple. Leave all WP, hemlock and red pine. Secondary Management Objective would be White pine or a mix of what is currently here.</p> <p>Wld : leave all red and white pine and hemlock and yellow birch if any</p>										
67	M9	4		63	northern hardwood	unevenaged	selection	3		
<p>comnts Fmd : Rolling topography within the stand, lower pockets has hemlock, beech and yellow birch. If treated, mark hardwood species, leave hemlock/white pine. Secondary Management Objective would be hemlock or a mix of what is currently here.</p> <p>Wld : leave all hemlock and white pine. Leave beech and yellow birch components</p>										
68	A9	22	60	68	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : Stand is situated along a ridge. Ski trail runs along the top of the ridge. If treated, harvest aspen, spruce, balsam, p. birch and hardwood. Leave all WP, hemlock, red pine. Secondary Management Objective would be White pine or a mix of what is currently here.</p> <p>Wld : leave all red and white pine and hemlock.</p>										
69	A4	6	55	46	aspen (upland)	low quality	final harvest	3		
<p>comnts Fmd : Stand is predominantly low quality aspen, b. cherry. Reindeer moss, grass and bracken fern on the ground. Trees are suppressed. Treat with surrounding stand if that is treated, if not use limiting factors of low volume. Secondary Management Objective would be white pine.</p> <p>Wld : leave any conifers</p>										
70	A5	20	55	50	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : Aspen is poor quality in some places within stand. Aspen is getting old and dying out. WP, R. Maple, spruce and balsam mixed throughout stand with regeneration present in all species. If treated, harvest aspen, maple, p. birch, spruce and balsam. Leave pine. Secondary Management Objective would be White pine or a mix of what is currently here.</p> <p>Wld : leave all pine and hemlock if present</p>										
71	R9	4	52	65	red pine	mature	improvement	2		
<p>comnts Fmd : Stand was planted with red pine in 1953 but is a mixed bag of RP/WP/aspen and r. maple. If treated, cut all aspen, r. maple, p. birch. Mark some RP/WP. Secondary Management Objective would be aspen.</p> <p>Wld : leave white pine and hemlock</p>										
72	R6	45	45	58	red pine	mature	thinning	1		
<p>comnts Fmd : Stand was planted in 1953 and again in 1960. It looks like some trees survived from the 1953 planting but most ages are from 1960. Never been thinned. Rows are not the straightest, if treated, mark stand to improve manuverability. Soil=Kalkaska (burned).</p> <p>Wld : leave white pine and hemlock</p>										
73	W6	4	52	58	white pine	mature	improvement	3		
<p>comnts Fmd : Stand was planted in 1953. Mostly WP with aspen/r.maple mixed in. Aspen is getting old. If treated, remove aspen and r. maple. Leave all WP. Soil = Kalkaska (burned). Secondary Mangement Objective would be aspen or a mix of what is currently here.</p> <p>Wld : leave all white pine</p>										
74	A9	21	55	60	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : If treated, harvest all aspen and maple. Leave pine. Hazel brush. Soil=Kalkaska (burned)</p> <p>Wld : leave pine, hemlock and paper birch</p>										
77	R6	44	45	68	red pine	mature	thinning	1		
<p>comnts Fmd : Stand was planted in 1953 and again in 1960. Some trees survived from the 53' planting. Never been thinned. Soil=Kalkaska (burned)</p> <p>Wld : leave white pine</p>										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 122 **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
86	W9	61		53	white pine	unevenaged	selection	2		

comnts Fmd : Stand is predominantly a mix of aspen and WP/RP. Red Maple, spruce, balsam and cherry scattered throughout. If treated, remove all aspen, r. maple, spruce and balsam. Leave all pine. Secondary Management Objective would be aspen or a mix of what is currently here.

Wld : leave cherry, hemlock, and red and white pine

Total Acres..... 973

**Proposed Treatments
With Limiting Factors**

Compartment: 122 **Entry Year: 2007**

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

