



**NEWBERRY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 119 ENTRY YEAR: 2008

Compartment Acreage: 1217 (GIS Calculated) County: Luce

Revision Date: 9/7/06

Stand Examiner: Keith Magnusson

Legal Description: T45N R9W Sections 4 & 5

RMU (if applicable):

Management Goals:

Timber, wildlife and recreation are the main uses of this area. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses by maintaining forest productivity, forest health, species diversification, and age class diversification through silvicultural and natural processes.

Soil and Topography:

Level to slightly rolling hardwood/aspen uplands gradually sloping to lowlands and swamp conifers. Upland soil types mainly consist of Kalkaska sand and a Kalkaska/Kaks complex. The lowland soil types mainly consist of Lupton/Tawas/Carbondale mucks.

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

The compartment is entirely State owned. The entire east side of the compartment is adjacent to State land with the remaining south, west and north sides the compartment being privately owned. The private ownership to the north is primarily swampland. The private ownership along the southeast boundary of the compartment has hunting camps/cabins is mainly used for recreational purposes. The entire south side of Section 5 is owned by the Luce County Airport. The private ownership along the west boundary of the compartment has been subdivided and mostly contains permanent residences.

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

There is an active goshawk nest in Section 4. MNFI also notes the potential for red-shouldered hawk, eagle, osprey and great blue heron rookery. Potential for moose and wolf also exists. In addition the potential for ebony boghaunter, incurvate emerald, frigga fritillary, and freija fritillary in the swampland bogs.

Potential plant species are moor rush, sweet coltsfoot, Wiegand's sedge, English sundew, round leaved orchis, black crowberry, yellow pitcher plant, and panicked screwstem in the open wetlands.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): The Bureau of History does not list any historical features.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations

Fisheries Values

None.

Wildlife Habitat Considerations:

Compartment 119 lies in southern Luce County in the Seney Sand Lake Plain ecological sub-subsection. The eastern portion of the compartment lies in the Sage River deer yard which supports high numbers of deer during winter months. This small compartment is fairly diverse with aspen, northern hardwoods and swamp conifer predominating. Cedar, swamp hardwoods, and marshes are also quite prevalent and several small streams run through the compartment. Stands generally have decent species diversity.

Wildlife objectives will be achieved by the retention of hard and soft mast producing trees, wildlife den and nest trees and snags in harvested stands and the preservation of conifer components in aspen and hardwood stands. Cedar will be retained compartment wide with the exception of a few small cedar stands which are suspected to regenerate well. Forested corridors should be maintained to facilitate ease of movement between upland and lowland areas and to preserve wetland wildlife values and habitats. Species of special interest potentially using this compartment include white-tailed deer, black bear, moose, coyote, fox, mink and otter.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 4 & 5, T45N-R9W, Luce County

Surface sediments consist of lacustrine sand & gravel, glacial outwash sand & gravel and postglacial alluvium and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Big Hill Dolomite and Stonington Formation subcrop below the glacial drift. The Big Hill and Stonington could be used for stone. Gravel pits are not located in the area, but there could be potential on the uplands. There is no economic oil and gas production in the UP.

Vehicle Access:

Compartment is located 2 miles SE of Newberry. It is 1 mile north of M-28 with the main access road being County Road 408 which is a seasonally maintained road.

Survey Needs:

The W1/16 between Section 5 of T45N R9W and Section 32 of T46N R9W; NW1/16 of Section 5 T45N R9W; N1/16 between Sections 5 & 6.

Recreational Facilities and Opportunities:

The compartment is used primarily for recreational activities such as hunting and snowmobiling (DNR Sponsored Trail #9). There are some camps/cabins on the private land around the compartment that are used for recreational purposes.

Fire Protection:

Fires should be small and slow growing because of hardwood and swamp conifer types. Lowland soil types and limited access will limit the use of heavy equipment for suppression. Areas of this compartment may lend itself to modified suppression strategies, such as containment and monitoring.

Additional Compartment Information: There are some piles of trash along the two track road (snowmobile trail) leading off of County Road 408 and into stand 51. The trash consisted of bedsprings/mattresses, household garbage, small appliances, etc. If time and/or money are available, it should be picked up.

- **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: 119

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		100	81	16	97	37		11	70										412
Black Spruce									17	9									26
Cedar									58		49							60	167
Grass	5																		5
LowInd Poplr								6	10									92	108
Marsh	62																		62
Mx Swmp Cnfr						19			141	22								34	216
Paper Birch									14										14
Tamarack									13										13
Upland Hdwds			2															192	194
Total	67	100	83	16	97	56		17	323	31	49							378	1217

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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: 119

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	412																										412
S Black Spruce		26																									26
C Cedar				167																							167
G Grass					5																						5
P Lowlnd Poplr										108																	108
N Marsh											62																62
Q Mx Swmp Cnfr												216															216
B Paper Birch															14												14
T Tamarack																					13						13
M Upland Hdwds																								194		194	
Total	412	26		167	5					108	62	216			14						13				194		1217

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **119**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	9965 Cds	Hardwood	3981 Cds
Hardwood	461 Mbf	Hardwood	242 Mbf
Softwood	10120 Cds	Softwood	2903 Cds
Sum TotVol	21007 Cds	Sum CutVol	7368 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	425
1217			

NEWBERRY FOREST MGT UNIT

Proposed Treatments
With NO Limiting Factors

Compartment: 119 Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	PDF Status
10	A6	9	76	50	aspen (upland)	mature	final harvest	3		
comnts Fmd : Low ground may pose a problem in getting this stand cut. Seasonal restrictions/weather will be important in getting this stand treated as well as the type of equipment used. Soil=Lupton/Tawas/Carbondale.										
Wld : leave cedar and do not disturb cedar canopies										
30	Q6	22	81	45	mixed swamp conifer	mature	final harvest	3		
comnts Fmd : Very thick stand with good canopy cover. Not much for regen on the ground. Cedar, balsam, spruce, tamarack have good quality, straight and sound. Northeast edge of stand has been affected by past beaver activity, trees in the adjacent stand 29 have been flooded out, hundreds of standing snags. Would need a cold winter to access the stand if treated. There is an old logging road running through the stand. It would need some improvement and would need to be froze in to gain access to the stand. Soil=Lupton/Tawas/Carbondale.										
Wld : leave cedar and do not disturb cedar canopies										
32	T6	6	76	50	tamarack	mature	final harvest	3		
comnts Fmd : Stand has some tall tamarack with a mix of spruce, balsam, cedar, birch and aspen. Decent quality timber. Old logging road running through the center of stand. Stand is on somewhat firm ground surrounded by lower/softer ground. 99=03,10 98=20,25. Some of the tamarack in the stand have been affected by Eastern Larch Beetle. A cold winter would be needed to gain access to the stand. The old logging road may need some improvement and would need to be froze in to gain access to stand. Soil=Lupton/Tawas/Carbondale.										
37	M6	21		64	northern hardwood	unevenaged	selection	2		
comnts Fmd : Decent stand of maple, mostly red with a mix of sugar maple and beech. Beech has scale. Active goshawk nest in the center of stand.										
Wld : leave some beech and a few high crotch trees is possible.										
42	M6	31		61	northern hardwood	unevenaged	selection	2		
comnts Fmd : Some sawlog sized trees in here, nothing fell on plots though. The regen in understory is mostly ironwood, very thick in places, about 4-10' tall. Beech in here has scale.										
Wld : leave some beech										
51	M9	74		61	northern hardwood	unevenaged	selection	2		
comnts Fmd : Some aspen scattered throughout stand, cut if treated. Beech in stand has scale. There is some trash located along the two track running through the stand, mattresses, toilets, old burn barrels etc., would be nice to have it picked up.										
Wld : leave any conifers and some beech										
52	A9	8	66	70	aspen (upland)	mature	final harvest	1		
comnts Fmd : Very tall, large diametered aspen trees in this stand. Maple scattered throughout. Aspen is beginning to fall apart and blow down, getting old. If aspen is desired MO, treat stand now.										
Wld : leave any conifers										
53	A6	3	66	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : Aspen is getting old and breaking apart. Sugar maple saps in the understory. If aspen is the desired MO, treat stand.										
Wld : leave a conifer component										
54	P6	3	76	55	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	3		
comnts Fmd : Stand is lowland poplar/hardwood/conifer. Tag alder throughout. Soil is soft and seasonally wet. Birch, cedar, spruce present as well. Winter harvest would be the preferred time of year to harvest stand if treated. Soil=Lupton/Tawas/Carbondale.										
Wld : leave cedar and a birch component										
55	M9	28		65	northern hardwood	unevenaged	selection	2		
comnts Fmd : Stand was lightly thinned in 1991, T.Sale 007-91. Nice quality maple. Beech has scale.										
Wld : leave some beech and a conifer component										
57	M6	38		58	northern hardwood	unevenaged	selection	2		
comnts Fmd : Most of the maple is stand is red, some sugar present. 99=49,07,04.										
Wld : leave a conifer component										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 119 **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
59	P6	58		52	balsam poplar & swamp aspen and swamp white birch	unevenaged	final harvest	2		
<p>comnts Fmd : Stand is mostly low ground, large aspen/balsam/paper birch/red maple overtopping cedar. Cedar is thick in places, some larger DBH cedar (~12"DBH) but most is avg. 8". Some rolling topography in here amongst low ground. Stand is breaking apart, blow down cedar, balsam. Balsam fir throughout with some cedar/lowland hardwood. Ground is low and soft, a cold winter would be necessary to treat stand. If treated, recommend not leaving all cedar. If cedar is to be left, design timber sale to leave patches of cedar completely in tact and cut all cedar in the 'cut' areas (see stand 68 and 69 comments).</p> <p>Wld : Leave patches of cedar as described in FMD comments, winter cut.</p>										
66	P6	3	76	55	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	3		
<p>comnts Fmd : Stand is lowland poplar/hardwood/conifer. Sapling sized elm, black ash present. Tag alder throughout. Soil is soft and seasonally wet. Birch, cedar, spruce present as well. Winter harvest would be the preferred time of year to harvest stand if treated. Soil=Lupton/Tawas/Carbondale.</p> <p>Wld : leave cedar and a birch component</p>										
67	A6	35	76	56	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : Terrain is rolling with low pockets where the ground is seasonally wet and soft. Aspen is large and mature, lowland poplar mixed throughout. Tag alder in places. Lowland conifers throughout. Stand would need to be harvested in the winter if treated due to the nature of the soil. If treated, recommend not leaving all cedar. If cedar is to be left, design timber sale to leave patches of cedar completely in tact and cut all cedar in the 'cut' areas (see stand 68 and 69 comments). Soil=Spot/Finch.</p> <p>Wld : leave cedar in larger patches. Winter cut needed.</p>										
Total Acres.....		339								

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
17	B6	8	76	48	paper birch	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Blocked by other physical obstacle										
comnts Fmd : Stand sits on on a subtile knob, low ground surrounding it. Beaver damage to the stand. Beavers chewed down many of the aspen, trees down all over the place as well as a few blow downs. Stand may prove to be difficult to access if treated due to low wet ground. Soil = Lupton/Tawas/Carbondale.										
Wld : leave a conifer component if present										
18	S6	17	76	40	black spruce-swamp	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet										
comnts Fmd : Decent spruce stand. Mix of various other species- paper birch, balsam, tamarack and aspen as well. Stand may be difficult to access with the low/wet mucky nature of the soil in and around the stand, good winter winter cutting conditions will be a must. Soil=Lupton/Tawas/Carbondale.										
19	A6	3	76	50	aspen (upland)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet										
comnts Fmd : A small isolated stand of aspen/birch surrounded by lowland conifers. Stand may be prove difficult to access with the low/wet mucky nature of the surrounding soils, good winter cutting condntions will be a must to access the stand. Soil = Lupton/Tawas/Carbondale.										
Wld : leave a conifer or birch component										
20	B6	4	76	46	paper birch	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet										
comnts Fmd : Wet mucky ground on the N. edge of stand, there is and intermittant flow of water there. Access to the stand may prove difficult if treated due to the low/wet mucky nature of the surrounding soil. Good winter conditions will be a must if stand is treated. Soil=Lupton/Tawas/Carbondale.										
Wld : leave a conifer component										
21	C6	5	91	35	cedar	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet										
comnts Fmd : Low/wet organic soil making up soft mucky ground. Thick groves of cedar in stand, some cedar is large diametered 14+"DBH. If stand is treated, a good cold winter will be needed.										
Wld : winter cut										
22	P5	6	66	46	balsam poplar & swamp aspen and swamp white birch	low quality	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet Inadequate volume due to low stocking/small diameter/etc.										
comnts Fmd : Stand is in low/wet organic soil, mucky. Intermittant surface flow of water seasonally runs through the stand. Tag alder thick in places. Would need a good cold winter if this stand is treated. 80=11,15 99=41,02,03.										
Wld : winter cut										
23	A9	7	76	55	aspen (upland)	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Water quality/bmps										
comnts Fmd : Intermittant flow of water on the north and west sides of stand. Would need to be addressed if stand is treated to protect the integrity of the waterfow. South end of stand is on faily firm ground but as you move north the ground gets low/wet and mucky. Timber is decent in stand. Soil=Paquin.										
Wld : leave a conifer component, winter cut										

NEWBERRY FOREST MGT UNIT

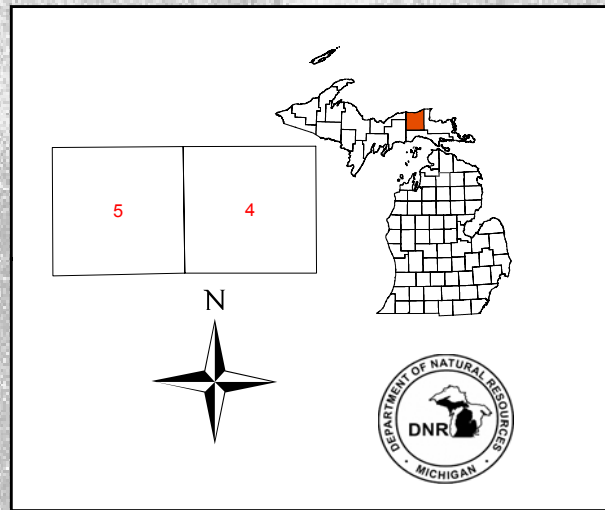
**Proposed Treatments
With Limiting Factors**

Compartment: 119 **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
24	A6	6	76	55	aspen (upland)	mature	final harvest	3		
<p>TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet</p> <p>comnts Fmd : Nice stand of aspen. Low/wet mucky ground to the south, would need to be crossed to get to this stand. Cold winter conditions would be needed to treat this stand. Soil=Lupton/Tawas/Carbondale.</p> <p>Wld : leave a conifer component, winter cut</p>										
25	C6	4	76	40	cedar	mature	final harvest	3		
<p>TREATMENT LIMITING FACTORS: Too wet Road needed (resources not presently available)</p> <p>comnts Fmd : Stand is mostly cedar with large overtopping aspen. Stand would be difficult to treat without cutting cedar. Cedar has some quality to it. Difficult stand to access due to the low/wet mucky ground. Good winter conditions would be needed to access the stand if treated.</p> <p>Wld : winter cut</p>										
26	C6	5	76	40	cedar	mature	final harvest	3		
<p>TREATMENT LIMITING FACTORS: Too wet Road needed (resources not presently available) Water quality/bmps</p> <p>comnts Fmd : Some nice quality to the cedar, it is sound and straight. Mix of aspen and birch in stand as well as other conifer species. Aspen overtops the cedar. There is a small spring at the north end of stand and an intermittent drainage on the south end where the soil is mucky. A cold winter would be needed if this stand is treated.</p> <p>Wld : winter cut</p>										
27	Q6	9	76	45	mixed swamp conifer	mature	final harvest	3		
<p>TREATMENT LIMITING FACTORS: Road needed (resources not presently available)</p> <p>comnts Fmd : Decent stand of timber, mixed bag of species- mostly lowland conifer with lowland hardwoods, balm and red maple mixed in. There is a pocket of tamarack on the south end of stand. A lot of blowdown on the south edge of stand where it borders and old timber sale. Would need to be a winter harvest if treated. Soil=Lupton/Tawas/Carbondale.</p> <p>Wld : winter cut</p>										
28	Q6	10	76	45	mixed swamp conifer	mature	final harvest	3		
<p>TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet</p> <p>comnts Fmd : Very thick stand with good canopy cover. Not much for regen on the ground. Cedar, balsam, spruce, tamarack have good quality, straight and sound. North and west edge of stand has been affected by past beaver activity, trees in the adjacent stand 29 have been flooded out, hundreds of standing snags. Would need a cold winter to access the stand if treated.</p> <p>Wld : winter cut</p>										
33	Q6	2	76	45	mixed swamp conifer	mature	final harvest	3		
<p>TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage</p> <p>comnts Fmd : Stand is on soft ground at the base of upland types. Decent quality timber, small acreage though. Treat if stands in the SE1/4 of section 4 are treated.</p> <p>Wld : winter cut</p>										
Total Acres.....		86								

Field Map

Compartment 119
 T45N, R09W, Sec. 4-5
 County: Luce
 Unit: Newberry
 YOE: 2008
 Acres: 1,217 GIS Calculated
 Stand Examiner: Keith Magnusson
 Map Revised: 11/8/2006
 Map Phase: Pre-review



- Legend**
- ◆ RLS Corners
 - Miris Corners
 - ▬ County Gravel Roads
 - - - Poor Dirt Roads
 - ⋯ Closed Roads
 - ⋯ Abandoned Skid Trails
 - - - Trails
 - Water Features
 - × Berms
 - ⊕ Springs
 - ⊞ Snowmobile Trails
 - ▭ Stand Boundary
 - ▨ 100 - Final Harvest
 - ▩ 800 - Selection

