



**NEWBERRY FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 124 ENTRY YEAR: 2009**

**Compartment Acreage: 1,723 County: Luce**

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**Revision Date:** 7/19/2007

**Stand Examiner:** Theresa Sysol

**Legal Description:** T45N R09W Section(s) 19, 30, 31

**RMU (if applicable):**

**Management Goals:** To maintain forest health and sustainability while enhancing diversity, with emphasis on wildlife and recreation needs. Cover types include ~29% of both aspen and red pine, 17% upland hardwoods, 14% upland brush, grass and bog, 5% spruce, and 3% of both jack and white pine.

**Soil and Topography:** Primarily Kalkaska and Kalkaska, burned. Some rolling terrain, esp. at the south end of the compartment.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Some private lands to the north, but primarily surrounded by State land ownership.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** MNFI has identified the potential for red-shouldered hawk and goshawk. Potential for great blue heron rookery, spruce grouse, black-backed woodpecker, eagle, and osprey. Potential for moose and wolf. Potential for incurvate emerald and ebony boghaunter in boggy areas. Potential for Blanding's turtle.

**Archaeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** None listed with the Bureau of History.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:** Fisheries Values  
None

**Wildlife Habitat Considerations:** Compartment 124 lies in south central Luce county in the St. Ignace ecological sub-subsection. The compartment is largely comprised of aspen and red pine with scattered stands of northern hardwoods, treed bogs, spruce and jack pine. Stands are well intermixed throughout the compartment. Forested corridors should be maintained to facilitate ease of movement between upland and lowland areas.

Wildlife objectives will be achieved by maintaining conifers in aspen and northern hardwood harvests. Hemlock and yellow birch will be enhanced when possible. Hardwood components will be retained in red pine thinnings and soft and hard mast producing species will be left for food and snag production. Existing

nest and den trees, snags, and woody debris will be maintained in stands where they exist. Low ground areas will be buffered to protect wetland wildlife values and habitats.

**Mineral Resource and Development Concerns and/or Restrictions:** Sections 19, 30 & 31, T45N-R9W, Luce County

Surface sediments consist of lacustrine (lake) sand & gravel. There is insufficient data to determine the glacial drift thickness. The Silurian Burnt Bluff Group, Cabothead Shale and Manitoulin Dolomite subcrop below the glacial drift. The Burnt Bluff and Manitoulin are quarried for stone. Gravel pits are located to the northwest and there could be some potential. There is no economic oil and gas production in the UP.

**Vehicle Access:** From M-28/M-123 junction, travel ~ 1 mile east to Co Rd 403. Head south for ~1 ¾ miles to the McLeod Road intersection. A number of two-track sand roads run throughout the compartment.

**Survey Needs:** None

**Recreational Facilities and Opportunities:** Area is heavily used for hunting and recreation (both motorized and non-motorized).

**Fire Protection:** Large fire runs are not likely, because of the diversity of fuel types. Upland ground and a fair number of two tracks provide good access for heavy equipment. Risk to private property should be minimal because of the access and hardwood 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

LUCE COUNTY

COMPARTMENT: 124

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		28	185		10	66	83											120	492
Black Spruce										88									88
Bog or Marsh	5																		5
Grass	14																		14
Jack Pine						42		9											51
Red Pine							182	299										7	488
Treed Bog	68																		68
Upland Brush	157																		157
Upland Hdwds																		301	301
White Pine							30											29	59
<b>Total</b>	<b>244</b>	<b>28</b>	<b>185</b>		<b>10</b>	<b>108</b>	<b>295</b>	<b>308</b>		<b>88</b>								<b>457</b>	<b>1723</b>

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 124

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	476																									16	492	
S Black Spruce		88																										88
V Bog or Marsh			5																									5
G Grass					14																							14
J Jack Pine							51																					51
R Red Pine																488												488
D Treed Bog																						68						68
U Upland Brush																								157				157
M Upland Hdws																								301				301
W White Pine																										59	59	
<b>Total</b>	476	88	5		14		51								488							68	157	301		75	1723	

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **124**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8953 Cds	Hardwood	3257 Cds
Hardwood	525 Mbf	Hardwood	169 Mbf
Softwood	17525 Cds	Softwood	7258 Cds
Softwood	1269 Mbf	Softwood	221 Mbf
Sum TotVol	30066 Cds	Sum CutVol	11295 Cds
<b>Total Cmpnt Acres</b>		Acres Proposed For Cut.....	683
1723			

**NEWBERRY FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 124 Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
<b>9</b>	<b>M9</b>	85		60	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Variable stand of hardwoods; south end contains more pole timber w/softwood interspersed along edges. Quite a bit of forked sugar maple stems. Red maple, aspen and beech within - beech with scale. Remove any aspen from stand - overmature. Non-commercial thinning (FTP 297/46) completed in the spring, 1978: WORC crews thinned and left free firewood for residents. 1999: stand 11</p> <p>Wld : leave large white pine and all conifers less than or equal to 4 inches. Cherry is in low volume, leave a component of it in various age classes.</p>										
<b>11</b>	<b>R6</b>	85	58	58	red pine	immature	thinning	1		
<p>comnts Fmd : Stand was originally planted in the spring, 1951 with alternate rows of red and jack pine (2-0 stock of each). Site was furrowed, and planting spacing was 7.5 x 7.5. Stand has never been thinned; alternate MO could be for JP. Some aspen and cherry present; aspen should be harvested. Soils are Kalkaska (burned). 1999: stand 14</p> <p>Wld : leave cherry and red maple</p>										
<b>12</b>	<b>R6</b>	69	58	58	red pine	immature	thinning	1		
<p>comnts Fmd : Stand was originally planted in the spring, 1951 with alternate rows of red and jack pine (2-0 stock of each). Site was furrowed, and planting spacing was 7.5 x 7.5 feet. Manual pruning of red pine (at 8-10 feet above ground) was completed (FTP42-47). Stand has never been thinned; alternate MO could be for JP. Both the snowmobile and ORV trail(s) run through the stand. Soils are Kalkaska (burned). 1999: stand 14</p> <p>Wld : leave maple and cherry understory and beech/birch if any is merchantable.</p>										
<b>16</b>	<b>R6</b>	27	58	53	red pine	immature	thinning	2		
<p>comnts Fmd : Mixed rows of R,J planted Sp, 1951 with 2-0 R,J. (Row width of 5 x 7.5). Planting record notes: "F, 1956 - very severe "needle droop" injury on RP, none on JP. 1958 - Many RP recovering from "needle droop" by sprouting forth new branches close to stem. August, 1959 - perhaps 15-20% JP attacked by WP weevil." The ORV trail runs through this stand; maintain trail integrity. Soils are Kalkaska, burned. MO2 = J. 1999: stand 17</p> <p>Wld : leave cherry and other hardwood for diversity</p>										
<b>17</b>	<b>J6</b>	42	44	55	jack pine	high risk	final harvest	1	natural regeneration	
<p>comnts Fmd : Stand originally planted F, 1951 with 2-0 RP and 3-0 JP (7.5 x 7.5 spacing). E. side of road replanted F, 1952 with 2-1 RP (Notes: "15-20% survival of JP - branchy, with 80% survival of RP.") W. side of road replanted F, 1953 with 3-0 RP (N/S direction). Check in Sp, 1961 noted, " Severe frost damage and needle droop on 3 RP plantings; 5-10% survival on original JP planting - plant 2-0 JP." October, 1965, stand was hand planted w/2-0 JP (6 x 6 spacing); W. side of road planted w/ Wyman stock, E. side w/ Lower Peninsula stock. Trees were dipped in an Aldrin mixture. Small aspen area w/in center of stand was avoided when planted - remove mature aspen now, with harvest. Currently, stand has suffered some fairly severe windstorm damage (blowdown, snapped off tops) and should be harvested at this time. If natural regeneration is unsuccessful, replant back to JP. The ORV trail runs through the stand; maintain trail integrity. 1999: stand 16.</p> <p>Wld : leave cherry and other hardwood for diversity. Leave a few mature aspen.</p>										
<b>20</b>	<b>A5</b>	7	48	40	aspen (upland)	low quality	final harvest	3		
<p>comnts Fmd : Junk aspen clones within opening/U-type. The ORV trail runs through the stand. Possibly treat with adjacent stands, otherwise volume is insufficient for sale. Soils are Kalkaska, burned. 1999 : stand(s) 21,24</p> <p>Wld : leave conifer unless needed for maneuverability and some cherry</p>										
<b>23</b>	<b>S6</b>	33	86	40	black spruce-swamp	mature	final harvest	2		
<p>comnts Fmd : Stand transitions from upland to treed bog. Ground cover noted=sphagnum. Quite a bit of blowdown present. Harvesting will be difficult due to soils. Spruce galls on ~ 50% of trees. Some aspen along upland edges. Stand continues into adjacent compartment (C. 125 stand 51 w/ TMP=2). Soils are Crowell/Spot (no code). 1999: stand 19</p> <p>Wld : leave something in here to maintain what diversity there is within the stand.</p>										
<b>29</b>	<b>A6</b>	13	44	50	aspen (upland)	two aged	final harvest	2		
<p>comnts Fmd : This stand was set up and sold last entry as "Pullup Lake Aspen", #007-00-2, but producer never cut it. Aspen is scattered in clumps along ridge w/some white pine, red maple noted. Aspen TSI (FTP #30) completed sometime in the 60's following harvest (#80-63, #55-64), but neither harvest nor TSI were entirely complete, as there are older, larger diameter aspen clones within. 1999: stand 25</p> <p>Wld : leave white pine and cherry</p>										
<b>31</b>	<b>A5</b>	2	44	50	aspen (upland)	two aged	final harvest	2		
<p>comnts Fmd : Small knob of aspen clones scheduled last entry, but never harvested. Soils are Kalkaska, burned. 1999: stand 25</p>										

## NEWBERRY FOREST MGT UNIT

Proposed Treatments  
With NO Limiting Factors

Compartment: 124 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
38	J5	9	67	40	jack pine	low quality	final harvest	3	natural regeneration	
comnts Fmd : Jack pine seeding in slowly, expanding stand size. Some aspen, with add'l ground cover of bracken, lichen and moss. Soils are Kalkaska, burned. 1999: N/A (part of stand 44)										
Wld : leave red pine unless needed for maneuverability										
40	R6	16	50	45	red pine	immature	thinning	2		
comnts Fmd : 3 - 0 RP planted F, 1960 @ 7.5 x 5.75 spacing. (Entire planting completed by Sp, 1963; a light white grub population was noted.) Regeneration check in 1968 = 190 t/ac, 1-2' tall. Soils are Kalkaska, burned. Variable rows - mark as third row thinning, where possible. 1999: stand 30										
Wld : leave any hardwood species present except for aspen										
41	A6	8	57	46	white pine	mature	delayed removal	2		
comnts Fmd : Aspen overtopping WP, which was planted F, 1960 with 2-0 stock. A lot of the aspen has been breaking apart and contains hypoxolon. Planted WP is ~ 3 - 6" dbh and heavily weeviled. Soils are Kalkaska, burned. Remove aspen, and protect as much of the WP regeneration as possible. Continue to manage for WP, with aspen as secondary objective. 1999: stand 31										
Wld : leave a few large white pine if present and maintain a conifer component										
42	R6	3	50	45	red pine	immature	thinning	2		
comnts Fmd : 3 - 0 RP planted F, 1960 @ 7.5 x 5.75 spacing. (Entire planting completed by Sp, 1963; a light white grub population was noted.) Regeneration check in 1968 = 190 t/ac, 1-2' tall. Soils are Kalkaska, burned. Variable rows - mark as third row thinning, where possible. 1999: stand 30										
Wld : retain cherry and maple if present										
43	R6	2	50	45	red pine	immature	thinning	2		
comnts Fmd : 3 - 0 RP planted F, 1960 @ 7.5 x 5.75 spacing. (Entire planting completed by Sp, 1963; a light white grub population was noted.) Regeneration check in 1968 = 190 t/ac, 1-2' tall. Soils are Kalkaska, burned. Rows are fairly easy to follow - mark as third row thinning, where possible. Bunchberry ground cover present. WP is heavily weeviled, where present. 1999: stand 30										
Wld : retain cherry and maple if present										
45	A6	28	57	50	aspen (upland)	mature	final harvest	1		
comnts Fmd : Aspen is dying/breaking up. Some nice clones of bigtooth within. Rolling terrain, with a variety of conifers present (R,BF,S,W,J). WP was interplanted Sp, 1963 (3-0 stock) within section 31, and is now 3-4" dbh. Mixed hardwoods noted: red maple, cherry - both could be left in the stand for diversity. Management of both aspen and white pine is acceptable. 1999: stand 28										
Wld : leave cherry and maple. Also leave conifers 4 inches and less and a few larger diameter conifer.										
50	A6	35		50	aspen (upland)	unevenaged	final harvest	1		
comnts Fmd : Aspen was harvested in the 60's; residual white pine, hemlock left within. Some red and sugar maple, and cherry within. Leave cherry, white pine, hemlock. 1999: stand 37, 36										
Wld : leave cherry, white pine, and hemlock										
57	M6	19		60	northern hardwood	unevenaged	thinning	2		
comnts Fmd : Rolling terrain; some H,W within. Beech scale present. 1999: stand 42										
Wld : leave hemlock and white pine and other small conifers. Leave yellow birch and cherry component.										
58	A6	11	49	57	aspen (upland)	mature	final harvest	2		
comnts Fmd : Stand transitions from W to A/B; WP is weeviled. Blowdown aspen/fir within. Heavy fir understory starting (<5' height). Mixed softwood includes: F,H,WS,R. Mixed hardwood includes: YB, beech. Leave WP, RP, H, YB, and mast beech when harvest. MO2=W,B 1999: N/A										
Wld : leave white and red pine, hemlock and yellow birch and large beech.										
62	M6	44		60	northern hardwood	unevenaged	thinning	2		
comnts Fmd : Rolling terrain; some H,W within. Beech scale present. 1999: stand 42										
Wld : leave small diameter conifer and hemlock and white pine. Leave some huge, wolfy aspen, s. maple and yellow birch and some cherry of varying age classes.										
67	A6	6	40	50	aspen (upland)	low quality	final harvest	3		
comnts Fmd : Junk aspen along PVT line (twisted, defects - part of old opening), with healthier clones along east boundary. Some WS, WP within, which should be left when stand is harvested. 1999: stand 35/43										
Wld : leave white spruce and white pine.										

**NEWBERRY FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 124    Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
69	A6	9		50	aspen (upland)	unevenaged	final harvest	3		
<p>comnts Fmd : Rolling terrain - mixed-age aspen with conifers throughout. Portions of stand were old openings at one time. Planted patch of RP ( ~1-2 acs at most) in SE tip of stand (along PVT - ~140 BA). Will need to be thinned when stand is set-up. Cuttings occurred in the 60's and 70's. Leave WS, WP when stand is harvested. 1999: stand 43</p> <p>Wld : leave white spruce and white pine after harvest and some hardwood (beech, maple and cherry)</p>										
<b>Total Acres.....</b>		<b>553</b>								

**NEWBERRY FOREST MGT UNIT**

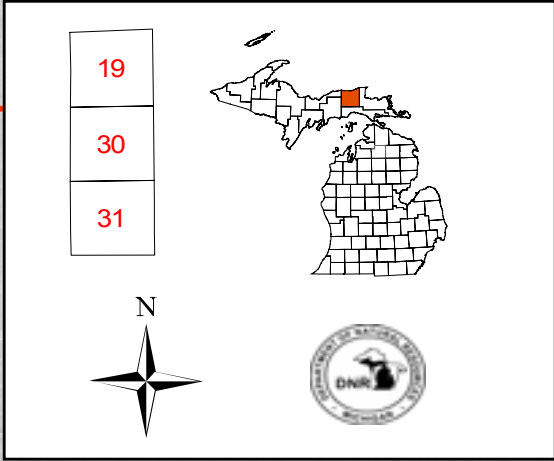
**Proposed Treatments  
With Limiting Factors**

**Compartment: 124**    **Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
<b>1</b>	<b>A6</b>	1	57	50	aspen (upland)	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage										
comnts Fmd : Small stand between road and private property. Aspen is overmature and should be harvested, though acreage is too small to be marketable - may be possible to include with hardwood thinning to the south (stand 9), though. Re-evaluate when hardwoods are marked. Mixed hardwoods include: sugar maple, cherry, elm and ironwood. Retain cherry, elm and ironwood. 1999: (part of) stands 1,6										
Wld : leave cherry, elm and ironwood										
<b>13</b>	<b>A4</b>	3	48	40	aspen (upland)	low quality	final harvest	3		
TREATMENT LIMITING FACTORS: Other special wildlife habitat consideration (desc. In comments)										
comnts Fmd : Local garbage dumping spot. Soils are Kalkaska, burned. Could possibly treat with adjacent stand but, may be better left as a retention stand. 1999: N/A										
Wld :										
<b>14</b>	<b>A5</b>	8	48	40	aspen (upland)	low quality	final harvest	3		
TREATMENT LIMITING FACTORS: Inadequate volume due to low stocking/small diameter/etc.										
comnts Fmd : Soils are Kalkaska, burned. Could possibly treat with adjacent stand (17), but will depend on quantity of aspen to harvest there. 1999: (part of) stand 12										
Wld : LEAVE CONIFERS AND SOME CHERRY. Can take some fir.										
<b>18</b>	<b>R6</b>	118	58	50	red pine	immature	thinning	2		
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity										
comnts Fmd : Planted F, 1951 w/ 2-0 RP; furrowed and "dibble" (hand) planted. (6 x 6 spacing.) Plantation was pruned (FTP42-187?, 42-017?, 42-030?). Stand contains variable densities; some aspen clones within to harvest. Soils are Kalkaska, burned. Stand harvest could be delayed for diversity, due to surrounding proposed treatments and adjacent compartment harvests. 1999: stand 15										
Wld : leave white pine unless for maneuverability and some hardwoods for diversity										
<b>Total Acres.....</b>		<b>130</b>								

# Field Map

Compartment 124  
 T45N, R09W, Sec. 19, 30, 31  
 County: Luce  
 Unit: Newberry  
 YOE: 2009  
 Acres: 1,723 GIS Calculated  
 Stand Examiner: Theresa Sysol  
 Map Revised: 12/07/2007  
 Map Phase: Pre-Review



**Legend**

- ◆ RLS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- - - Poor Dirt Roads
- ⋯ Closed Roads
- - - Trails
- ✕ Gates
- ORV Staging Areas
- ORV Trails
- Snowmobile Trails
- Stand Boundary
- 100 - Final Harvest
- 145 - Final Harvest/Natural Regeneration/Mechanical, other
- 400 - Thinning
- 600 - Delayed Removal
- 800 - Selection

