



**NEWBERRY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 103 ENTRY YEAR: 2008

Compartment Acreage: 3381 (GIS Calculated) County: Luce

Revision Date: 10/16/06

Stand Examiner: Jason Tokar

Legal Description: T46N R11W Sections 19 - 21, 28 - 30, & 31 - 33

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. Treatments prescribed will increase age class and structural diversity, ensure the sustainability of the forest resource and enhance the quality of the wildlife habitat within the area. Sensitive areas around the Tahquamenon River and a few tributaries found within the compartment will be protected.

Soil and Topography:

Lowland muck soils (Carbondale, Lupton and Tawas) dominate the compartment. Forested cover types on these lowland soils are mainly cedar, tamarack, swamp conifer, black spruce and treed bogs. Subtle ridges and higher ground, mainly in the southern reaches of the compartment, are comprised of fine sand loams producing forested cover types of aspen (upland and lowland), and low quality northern hardwoods. The topography of the compartment is primarily level, low ground with some higher ground in the southern portions 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 north and to the south, while additional State owned land borders the compartment to the east and west. Land use and development are substantial to the south of the compartment with many private parcels containing permanent residences of the greater metropolitan area of McMillan and the associated suburbs. 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 an occurrence of Frigga Fritillary and Osprey within the compartment. There is the potential for various wildlife such as spruce grouse, blacked-back woodpecker, wood turtle, eagle, goshawk, moose, wolf, and ebony boghaunter. There’s also the potential for unique plants such as yellow pitcher plant, English sundew, black crowberry, calypso orchid, lapland buttercup, ram’s head lady’s slipper, and a host of others.

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:

The Tahquamenon River flows through the center of the compartment. No prescribed management activities will impact the communities and features associated with the river system. The western portion of Sections 19 and 30 between Syphon Creek and Laketon Slough (stands 58, 59, 61) are part of the “Tahquamenon Spreads”, a unique hydrologic occurrence within the Tahquamenon River system. Those stands have been designated as a Special Conservation Area (SCA).

Watershed and Fisheries Considerations**Fisheries Values**

Good-to-Excellent. Downstream from the Spreads, the Tahquamenon River is classified as SQCW, as is the slough, Red Creek and Beaver Run Creek. East and Syphon Creeks are FQCW. All of these waters contain native brook trout; there has been no trout stocking in the Tahquamenon River since 1998.

Wildlife Habitat Considerations:

Compartment 103 lies in western Luce county in the Seney Sand Lake Plain ecological sub-subsection. The compartment is also entirely within the McMillan deer yard which supports high numbers of deer during stressful winter periods. The compartment is dominated by cedar, spruce, and swamp conifer and stands have relatively low species diversity. The Tahquamenon river runs through the compartment and serves as excellent wetland habitat and a well used travel corridor. Pre-settlement vegetation patterns appear to be consistent with current vegetation in this region of the subsection.

Cedar will be left throughout the compartment. Conifers will be left in swamp aspen stands and species and structural diversity will be maximized in final harvest spruce and fir stands. Nest and den trees, snags, and woody debris will be maintained in stands where they exist. Travel corridors along streams and drainages will be preserved during harvest. Wildlife species potentially using this compartment include white-tailed deer, moose, black bear, bobcat, gray wolf, coyote, fox, fisher, mink, beaver and otter.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 19 – 21 & 28 - 33, T46N-R11W, Luce County

Surface sediments consist of peat & muck and minor 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. A gravel pit is located in Section 36 and should be potential along the southern edge. There is no economic oil and gas production in the UP.

Vehicle Access:

The compartment is located ¼ mile north of Highway M-28 along County Road 415. Due to the lowland aspect of the compartment, access is limited. County Road 415 provides the only passenger vehicle access through the compartment. Canadian National Railroad runs through the southern portion of the compartment. All other access to the compartment would be via boat on the Tahquamenon River.

Survey Needs:

For management activities to occur, the following corners need to be set: N1/16, NE1/16 and E1/16 of Section 33. Additional survey needs are dependent on access issues. If access is gained and timber management occurs, the following additional line work and associated corner establishment will be needed: N1/16 line through Sections 31 & 32. These survey needs will be prioritized once it is certain whether or not access can be acquired.

Recreational Facilities and Opportunities:

County Road 415 is used as part of the designated snowmobile trail system (Trail #492). The Tahquamenon River provides plenty of fishing opportunities within the compartment and surrounding area. Waterfowl and deer hunting are also main recreational uses of the compartment.

Fire Protection:

Fires should be small and slow growing because of hardwood and swamp conifer types. Lowland soil types and accessibility may 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:

Stand 12 contains a substantial amount of garbage and debris ranging from old appliances to numerous old vehicles. Possible old dump site? No records found. This may hinder management of the stand. It would be beneficial to find a way to get this site cleaned up and rehabilitated.

- **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: 103

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									9										9
Black Spruce										64	63	17							144
Cedar										63	295	131							489
Grass	10																		10
Hemlock																		6	6
LowInd Brush	573																		573
LowInd Poplr					6		16	65	28										115
Mx Swmp Cnfr						18		186	768	49	54								1075
Non Stocked	25																		25
Tamarack					80		34			107									221
Treed Bog	615																		615
Upland Hdwds																		44	44
Water	55																		55
Total	1278				86	18	50	251	805	283	412	148						50	3381

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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: 103

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	9																										9
S Black Spruce		144																									144
C Cedar				489																							489
G Grass					10																						10
H Hemlock						6																					6
L LowInd Brush									573																		573
P LowInd Poplr										115																	115
Q Mx Swmp Cnfr												1075															1075
X Non Stocked													25														25
T Tamarack																					221						221
D Treed Bog																						615					615
M Upland Hdwds																								44			44
Z Water																									55		55
Total	9	144		489	10	6			573	115		1075	25								221	615		44	55	3381	

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **103**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3330 Cds	Hardwood	2454 Cds
Hardwood	77 Mbf	Hardwood	19 Mbf
Softwood	21338 Cds	Softwood	5135 Cds
Softwood	30 Mbf	Sum CutVol	7627 Cds
Sum TotVol	24882 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	341
3381			

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 103 Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
12	P5	6	56	48	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1		
<p>comnts Fmd : Small pocket of aspen with some spruce, white birch and tamarack along the east side of County Road 415. Open areas. Aspen in mature and showing some rot and decline. East and west ends of the stand have more spruce. There appears to be an old dumpsite within the stand. Possible site of old McMillan dump? Numerous old cars and appliances showing through the snow. Also mounds where it looks like other items are buried. Easy access off County Road 415. Winter cut due to the soil type. Management objective of lowland aspen, acceptable alternative management objective of a lowland aspen and lowland conifer mix.</p> <p>Wld : leave some cedar or spruce</p>										
18	Q6	38	88	40	mixed swamp conifer	mature	final harvest	1		
<p>comnts Fmd : Lowland mixed conifer stand. Pockets of higher tamarack basal area (large dbh and tall) and others with more black spruce. Some mortality in the tamarack, but much of it is still healthy, tall and larger diameter especially in the northern portions of the stand. Good balsam component throughout the stand, thick balsam understory also. Scattered white birch. Some cedar pockets. Stand is mature and ready for harvest. Harvest stand with other prescribed stands near the county road along with stand 42. Visual impact will be a concern due to the location along the county road and proximity to McMillan. Leave conifers 4 inches in diameter or less after harvest for visual concerns. Stand 17 will also help reduce the visual impact of the harvest. Western boundary of the stand follows the more open canopy and the higher cedar component (stand 17). Management objective is Q - mixed swamp conifer. Any combination of a lowland conifer species mix is acceptable alternative management objective.</p> <p>Wld : stay out of cedar canopies, not harvesting if cedar. Leave come paper birch</p>										
19	P6	10	56	60	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1		
<p>comnts Fmd : Mainly quaking aspen, black spruce and balsam on a low ground site. Typed as a P6 due to the low ground soils. Stand is semi open in the western end. Aspen is mature (over 50 years old). Prescribed for final harvest with a management objective of aspen (lowland). Will likely get a component of balsam and spruce regeneration also. Winter sale due to soils. Visual impact will be a concern due to stand location. Harvest with adjacent prescribed stands near the county road. Use a sale specification to harvest all conifer down to 2 inches in diameter to promote better aspen regeneration due to the thickness of the balsam understory in spots. This was agreed to by discussion with Wildlife Biologist. This small diameter conifer component will be retained in stand 18 after harvest, along with other harvested conifer stands.</p> <p>Wld : leave a conifer component</p>										
24	Q6	16	94	38	mixed swamp conifer	mature	final harvest	1		
<p>comnts Fmd : Lowland mixed conifer stand with an aspen component (pockets). Black spruce, tamarack and balsam. Some scattered large diameter aspen. Stand consists of taller, larger spruce and tamarack with balsam than the adjacent "Q" stands. Not much of a cedar component. More of a cedar component in stands 25 and 28 - adjacent stands. Understory is more open than the adjacent stands. Stand is mature, ready for harvest. Western boundary of the stand is the N/S ice road. Harvest this stand along with stands 12, 26, 32 and 36 (all east of County Road 415. Access to the stand will be through stand 36. Management objective is mixed swamp conifer. Acceptable alternative management objective of a mix of lowland aspen and mixed swamp conifer. Carbondale, Lupton and Tawas mucks soil.</p> <p>Wld : leave cedar component</p>										
26	S6	15	88	38	black spruce-swamp	mature	final harvest	1		
<p>comnts Fmd : Stand consists of mainly black spruce, some large diameter. Lots of dead tamarack. Healthy, almost solid balsam understory, with scattered red maple saplings. Stand appears to be slightly "drier" than adjacent stands. Stand is mature and showing decline in the spruce and more so in the tamarack. Prescribed for final harvest with a management objective of black spruce. Acceptable alternative management objective of mixed swamp conifer species (Q type). Leave white pine in the stand as residual, and retain conifers 4 inches or less in diameter after harvest to help reduce visual impact due to proximity to McMillan and along county road. Stand can be easily delieated on the ground by the thick balsam understory compared to the adjacent stands. Stand should be harvested with other prescribed stands east of Co Rd 415.</p> <p>Wld : leave white pine</p>										
32	P6	6	58	57	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	2		
<p>comnts Fmd : Small acreage aspen stand along the railroad tracks east of Co Rd 415. Appears to be slightly better ground than the surrounding stands with a good balsam fir understory. Some cedar and spruce in the understory. Aspen is fairly heealthy but showing some decline and rot. Prescribed for final harvest. Harvest with other prescribed stands east of Co Rd 415 as one sale. Remove all conifers down to 2 inches in diameter (except cedar) through harvest to promote better aspen regeneration due to the thick balsam understory. This was agreed to through discussion with the wildlife biologist Survey work will be needed prior to managing this stand. Management objective is lowland aspen. Acceptable alternative management objective is a mix of lowland aspen and lowland conifers.</p> <p>Wld : protect the cedar understory. Leave a conifer component.</p>										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 103 **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
36	P6	25	58	57	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	1		

comnts Fmd : Lowland aspen stand at the NE corner of the railroad tracks and Co Rd 415. Mainly mature aspen. Some balsam poplar mostly in the southern reaches of the stand. Some open lowland areas (P4). Mature black spruce along the edges and throughout the northern half of the stand. Southeast corner of the stand is more large diameter balsam and spruce near the old ice road. West side of the stand contains mature spruce to be included in the stand. Aspen clones are showing rot and decline. Surrounding "Q" stand has smaller diameters of tamarack and spruce without the aspen component. Delineation is fairly easy on the ground. Very slight topography difference from adjacent stands, better balsam component in the understory. Stand continues to the northeast to the old ice road. Stand is prescribed for final harvest with a management objective of lowland aspen. Acceptable alternative management objective of a mix of lowland aspen and swamp conifer. Treat stand along with other prescribed stands east of Co Rd 415 (12, 24, 26, 32). Survey work needed along private land prior to stand being managed. Wildlife biologist agreed to cutting conifer component down to 2 inches in diameter (except cedar) to promote better aspen regeneration due to the thick balsam understory present in the stand. This was agreed to through discussion with the wildlife biologist. Visual concerns of the cut will be lessened by the retention of stand 27 along the county road.

Wld : leave cedar and a conifer component

37	S6	25	86	38	black spruce-swamp	mature	final harvest	1		
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comnts Fmd : Black spruce stand along the west side of Co Rd 415. Larger diameters and taller than adjacent stand to the west. Primarily a black spruce stand with a component of tamarack, balsam and balsam poplar. Much of the tamarack in the stand is dead. Stand is mature. Lots of black spruce 2-3 inches in diameter within the stand. Prescribed for final harvest. Treat with stands 18, 19, and 42. Leave conifers 4 inches or less in diameter after the harvest to help reduce the visual impact of the sale due to the adjacency to the county road and the proximity to McMillan. Will also provide some structural diversity in the stand. Management objective of black spruce. Acceptable alternative management objective of mixed swamp conifer.

Wld : leave aspen and birch and a conifer component

Total Acres..... 141

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
42	S6	27	86	42	black spruce-swamp	mature	final harvest	2		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet										
comnts Fmd : Fairly nice black spruce stand. Thick in most of the southern portion of the stand. Lots of spruce less than 4 inches in diameter. Some open areas further north in the stand. Mature spruce. Prescribed for a final harvest with a management objective of black spruce. Acceptable alternative management objective of mixed swamp conifer. Treat with stands 18, 19, and 37 as one sale. Access to the stand is from east along the north side of the railroad. At least one culvert will be needed for a creek crossing. Areas of advanced balsam and spruce regeneration in the stand should be protected if stand is harvested. More remote location. Visual impact is not a concern. Road into the stand for harvesting will be blocked an obliterated after sale is complete.										
Wld : leave any cedar and stay out of cedar pockets										
46	S6	10	98	47	black spruce-swamp	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet										
comnts Fmd : Nice tall black spruce stand. Very uniform diameters. Almost "park like" in areas. Good component of large diameter cedar. Very thick F3 understory in areas where blowdown or mortality has occurred. Mature black spruce. Tamarack in the stand is almost all dead. Hold stand for 10-20 years, then harvest if the prescribed stands to the south are managed this entry year. Access is very questionable.										
Wld : leave cedar and stay out of cedar canopies										
66	S6	48	97	43	black spruce-swamp	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet Adjacent landowner denies access										
comnts Fmd : Mature black spruce stand with tamarack and balsam. Much of the larger diameter tamarack is dead. Good, thick F3 understory. Nice tall spruce throughout the stand. Some areas in the stand are more open with lower overstory basal area. Majority of the stand is very nice, tall black spruce. Access is very questionable due to the location. Multiple culverts and over 1 1/2 miles or winter road for access from the east. Private land to the south along with railroad crossing needed (permits, insurance) really limits the possibility for access. Prescribed for final harvest with numerous limiting factors. If access can be gained to the stand, set up as one sale with stands 67, 68, 82, 83, and 87 (all limiting factored stands north of the railroad. Management objective of black spruce. Acceptable alternative management objective of mixed swamp conifer.										
67	P6	10	67	50	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet Adjacent landowner denies access										
comnts Fmd : Mature balsam poplar stand with spruce, tamarack and some quaking aspen. Much of the larger diameter tamarack is dead. Thick S2 understory in spots, open "L" type in others. Both the balsam poplar and the aspen are in bad shape, dying out. Poor quality stand in need of regeneration. Open areas have smaller diameters. Edges of the stand bordering stands 66 and 68 have more black spruce. Access is very questionable due to the location. Multiple culverts and over 1 1/2 miles or winter road for access from the east. Private land to the south along with railroad crossing needed (permits, insurance) really limits the possibility for access. Prescribed for final harvest with numerous limiting factors. If access can be gained to the stand, set up as one sale with stands 66, 68, 82, 83, and 87 (all limiting factored stands north of the railroad. Management objective of balsam poplar. Acceptable alternative management objective of balsam poplar with a mixed swamp conifer component.										
Wld : leave any cedar										
68	S6	7	98	47	black spruce-swamp	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Road needed (resources not presently available) Too wet										
comnts Fmd : Nice tall black spruce stand. Very uniform diameters. Almost "park like" in areas. Good component of large diameter cedar. Very thick F3 understory in areas where blowdown or mortality has occurred. Mature black spruce. Tamarack in the stand is almost all dead. Stand is prescribed but with limiting factors due to very questionable access. Management objective is black spruce. Acceptable alternative management objective of mixed swamp conifers. Multiple (at least 3) culverts/creek crossings needed and multiple miles of road to freeze in. Access from the south would require permission from private land and crossing permits (requiring very high liability insurance) from the railroad. If stands are able to be harvested, treat stands 66, 67, 68, 82, 83, 87 as one sale to make sure the value of the sale offsets any additional costs associated with accessing the sale.										
Wld : leave cedar and stay out of cedar canopies										

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
69	Q6	5	72	51	mixed swamp conifer	low quality	final harvest	3		

TREATMENT LIMITING FACTORS: Adjacent landowner denies access
Land survey needed

comnts Fmd : Lowland stand of white birch, spruce, balsam and cedar. Some black ash and balsam poplar. Mortality in some white birch and balsam. Low quality stand. Understory of balsam and black ash. Prescribed for final harvest with a management object of mixed swamp conifer. Acceptable alternative management objective of lowland aspen/birch with a mix of swamp conifer. Access is very questionable due to the location (multiple culverts needed and over a mile of winter road construction. If access is gained through the private, set up as one sale with stands 66, 67, 68, 82, 83, and 87 (all limiting factored stands north of the railroad). Carbondale, Lupton and Tawas mucks.

Wld : leave any cedar

70	P6	15	72	51	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	2		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access
Land survey needed

comnts Fmd : Lowland stand of white birch, black ash, balsam poplar, balsam and cedar. Some of the white birch is in bad shape, dying out. Small diameter black ash. Areas of "Q", "P", and "E". Balsam is healthy. Cedar is patchy. Stand is mature. Scattered large diameter spruce. Understory of balsam and black ash. Prescribed for final harvest with a management object of lowland aspen. Acceptable alternative management objective of lowland aspen with a mix of swamp conifer. Access is from the south through the private land. Access could be limited. Survey work is also needed. Winter cut. If access is gained through the private, set up as one sale with stands 73, 78, and 84 (all accessed through the private). Carbondale, Lupton and Tawas mucks.

Wld : leave large spruce and any cedar

73	A6	9	72	68	aspen (upland)	mature	final harvest	2		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access
Land survey needed

comnts Fmd : Stand is mainly large, mature and overmature aspen with some balsam poplar, hard maple and soft maple. A few clumps of basswood. Thick F3 understory in most of the stand. Stand is located on a slope with a few drainages, fingers with "seepages" on the hillside. Slope appears to be manageable for harvesting. Care will have to be taken due to the number of drainages. Portions of the stand may need to be excluded from the harvest around these drainages. Harvest as much of the stand as possible without damage to the site. Large diameter aspen throughout. Stand is prescribed for final harvest. Access is through the private to the south and survey work is needed. If access is gained through the private, set up as a sale with stands 70, 78, and 84 (all will be accessed through private to the south). Management objective is aspen. McMillan fine sandy loam soil.

Wld : leave a conifer component

78	M6	18		55	northern hardwood	unevenaged	selection	2		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access
Land survey needed

comnts Fmd : Stand was partially harvested by stump diameter cut in 1974 (west half). Portions of the stand that were cut harder have good advanced regeneration with less quality in the overstory. Other parts of the stand have very little understory but very nice quality in the overstory. Decline in the red maple throughout the stand. Beech bark disease. Occasional yellow birch and black cherry. Stand is ready for harvest and prescribed for a selection cut. Areas with lower quality overstory and good advanced regeneration can be thinned to 60-70 basal area. Mark for a residual basal area of 80 on average in the areas with better overstory quality. Management objective of northern hardwoods. Access is from the south through the private land. Access could be limited. Survey work is needed also. Stand has a moderate slope to it but it is manageable (harvested in the past). Old road from previous cut should be used as a main skid trail but not as a haul road. If access is gained through the private, set up as one sale with stands 70, 73, and 84 (all accessed through private. Possible winter or dry summer month cutting restrictions due to the drainages and "seepages" within the stand along the hillside. McMillan fine sandy loam soil.

Wld : leave a conifer component

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
82	P6	10	75	55	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	3		

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

comnts Fmd : Large diameter aspen, all pulp quality, limby and overmature over balsam, spruce and a few tamarack. Lowland (soil type) aspen out in the middle of the swamp conifer stand. Less quality and lower basal area in the souther portion of the stand. Access to the stand is very quesitonable due to the location. Multiple culverts needed and approx. 2 miles of winter road for access from the east. Private land and railroad to the south negates access from that direction, further limiting the access possibilities. Prescribed for final harvest with limiting factors. If access is gained, set up as one sale with stands 66, 67, 68, 83, and 87 (all limiting factor stands north of the railroad). Management objective of lowland aspen. Acceptable alternative management objective of lowland aspen mixed with swamp conifer.

Wld : leave cedar

83	P6	3	75	55	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	3		
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TREATMENT LIMITING FACTORS: Road needed (resources not presently available)
Too wet

comnts Fmd : Large diameter aspen, all pulp quality, limby and overmature over balsam, spruce and a few tamarack. Lowland (soil type) aspen out in the middle of the swamp conifer stand. Access to the stand is very quesitonable due to the location. Multiple culverts needed and approx. 2 miles of winter road for access from the east. Private land and railroad to the south negates access from that direction, further limiting the access possibilities. Prescribed for final harvest with limiting factors. If access is gained, set up as one sale with stands 66, 67, 68, 82, and 87 (all limiting factor stands north of the railroad). Management objective of lowland aspen. Acceptable alternative management objective of lowland aspen mixed with swamp conifer.

Wld : leave cedar

84	M6	14		55	northern hardwood	unevenaged	selection	2		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access
Land survey needed

comnts Fmd : Stand is fairly nice hardwoods. Mix of red maple, sugar maple, with some yellow birch beech and basswood. Clumps of aspen along the north edge of the stand. Thinned in 1975 - old notes state by stump diameter cut. Overall quality of the overstory is good. Some nice pockets of sugar maple sawlogs. Some decline in the red maple throughout the stand. Beech bark disease. Stand is ready for harvest and prescribed for a selection cut with a residual basal area of 70 sq ft. Management objective of northern hardwoods. Present basal area of the stand is 110-120 sq ft. Manage the stand now with the adjacent stands because of access. Access is from the south through the private land. Access could be limited. Stand has a moderate slope to it but it is manageable (harvested in the past). West end of the stand may be difficult to manage due to the slope. If access is gained through the private, set up as one sale with stands 70, 73, and 84 (all accessed through private. Possible winter or dry summer month cutting restrictions due to the drainages and "seepages" within the stand along the hillside. McMillan fine sandy loam soil.

Wld : leave a conifer component

87	P6	24	58	57	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	3		
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TREATMENT LIMITING FACTORS: Road needed (resources not presently available)
Too wet

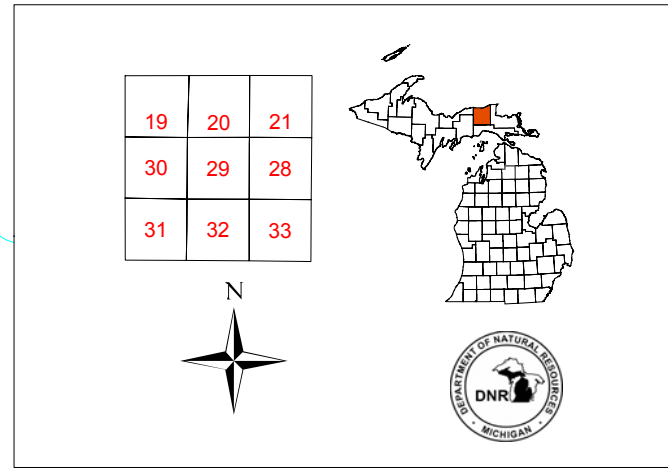
comnts Fmd : Lowland aspen stand. Open "center" of the stand ("L"). Edges of the stand have more tamarack where it transitions to the adjacent stands. Numerous dead spruce and tamarack throughout the stand, mainly west and south. Apen appears to be fairly healthy, nice heights, good diameters. Mature. Access is very questionable due to the stand location. Multiple culverts and over 2 miles of winter road construction needed for access to the east. Private land and railroad negates access from the south. Prescribed for final harvest with limiting factors. If access is gained, set up as one sale with stands 66, 67, 68, 82, and 83 (all limiting factor stands north of the railroad). Management objective of lowland aspen. Acceptable alternative management objective of lowland aspen and mixed swamp conifer.

Wld : leave any cedar

Total Acres..... 200

Field Map

Compartment 103
 T46N, R11W, Sec. 17-21, 28-33
 County: Luce
 Unit: Newberry
 YOE: 2008
 Acres: 3,381 GIS Calculated
 Stand Examiner: Jason Tokar
 Map Revised: 11/8/2006
 Map Phase: Pre-review



Legend

- Miris Corners
- Highways
- County Paved Roads
- County Gravel Roads
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Railroads
- Water Features
- Residences
- Bridges
- State Highway
- Stand Boundary
- Biodiversity/Old Growth Area
- 100 - Final Harvest
- 800 - Selection

