



**NEWBERRY FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 88 ENTRY YEAR: 2007**

**Compartment Acreage: 1301 (GIS Calculated) County: Luce**

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**Revision Date: 10/19/05**

**Stand Examiner: Jason Tokar**

**Legal Description: T47N R10W Sections 19, 30 & 31**

**RMU (if applicable):**

**Management Goals:**

Timber management, wildlife habitat, and recreation are the main uses of the compartment. The overriding goal is to maintain or improve the forest health, productivity and diversity of the area to promote and enhance these uses. Treatments prescribed will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat. Aspen and hardwood management will continue with the current sustainable level of management, promoting an array of both age class and structural diversity in the cover types, not only within the compartment boundaries but also in relation to the adjacent resource. Harvest treatments will be increased in red pine stand which are silviculturally ready for management. A stand of mature jack pine is prescribed for final harvest, followed by scarification. All management activities adjacent to Luce County Lease Lands should take into consideration the current management on those afore mentioned lands.

**Soil and Topography:**

The predominant soil type of the compartment is a Liminga-Alcona complex; a fine sand to sandy loam soil type found on ground moraines or lake plains. Kalkaska sand (burned), an outwash sand, is also found throughout much of the compartment. Cover types found on these soil types include mainly aspen and northern hardwoods along with grass openings. Red pine plantations and white spruce plantations are also present. Small pockets of lower ground consisting of bogs and treed bogs are scattered across the compartment. The overall topography of the compartment is level to slightly rolling.

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

Ownership pattern within and adjacent to this compartment is mixed. State lands are adjacent to the north and west with one private parcel bordering on the western compartment boundary. To the south is a mix of State land and private land. The eastern compartment boundary is bordered primarily by private ownership. Within the compartment the State lands form contiguous blocks with numerous small acreage private parcels adjacent to those blocks. While still under State ownership, some parcels within the compartment are under lease with Luce County. Development is moderate with many permanent residences, along with seasonal camps and cabins throughout the vicinity. Land use of the area is high. The main types of land use include hunting, ORV use and snowmobiling.

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

MNFI has not identified any species of concern within the compartment. The potential exists for various animals such as red-shouldered hawk, goshawk, great blue heron, moose, wolf, and ebony bog haunter.

Unique plants with potential of existing in the compartment include sweet coltsfoot, English sundew, round-leaved orchid and yellow pitcher plant.

**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:**

Approximately 200 acres within the compartment are under a lease agreement with Luce County (coded as Luce County Lease Land). Timber management on those lands is performed by Luce County through Grossman Forestry with approval of the DNR. Management on adjacent State land should take into account possible prescriptions and appropriate timing with harvests on Luce County Lease Land. Compartment 90, also a 2007 YOE compartment, is immediately adjacent to the west. This has been factored into proposed management activities for both compartments.

**Watershed and Fisheries Considerations**

Fisheries Values

None.

**Wildlife Habitat Considerations:** Compartment 88- This compartment is located in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. Vegetative diversity of this compartment is excellent with aspen and upland hardwoods comprising much of the total area and scattered conifers mixed throughout. Southern portions of the stand are dominated by red pine and openings. Current species composition appears to represent an increase in aspen and upland hardwood habitats and a decrease in pine habitats from what existed during presettlement times.

Mast producing species and a conifer component will be maintained in hardwood and aspen managed stands to enhance food availability and structural and species diversity. Nest and den trees, snags, and woody debris will be maintained in stands where they exist. Wildlife species expected to be present in this compartment include deer, gray wolf, black bear, fisher, marten, ruffed grouse and sharp-tailed grouse.

**Mineral Resource and Development Concerns and/or Restrictions:**

Sections 19, & 29 – 31, T47N-R10W, Luce County

Surface sediments consist of an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Collingwood and Utica Shales and the Trenton Group subcrop below the glacial drift. The Trenton is quarried for limestone/dolomite in the UP. There are no gravel pits in the area, but there should be potential. There is no economic oil and gas production in the UP, although there was a recent well drilled in Schoolcraft County.

**Vehicle Access:**

The compartment is approximately 8 miles northwest of Newberry. Access to the compartment is very good. County Road 407 runs along the east side of the compartment while County Road 455 and 422 provide east-west access to the compartment. Several woods roads (two track) transect the area providing additional access to the interior of the compartment.

**Survey Needs:**

For management activities to occur the following corners need to be set: E1/16 of Section 30; N1/16, Center of Section 30. The ¼ corner between Sections 30 and 31 should be checked for proper location (edge of new road).

**Recreational Facilities and Opportunities:**

Recreational facilities within the compartment include the Silver Creek ORV Trail and the Three Mile Snowmobile Trail. Other recreational opportunities include hunting, hiking, wildlife viewing and fishing on some private lakes in the area. The proximity of the compartment to the town of Newberry lends to a high amount of hunting activity. Numerous camps and permanent residences are located within the compartment boundary. Oswald's Bear Ranch is also located nearby. Interpretive opportunities exist for local school kids through the guidelines of the Luce County Lease Lands located within the compartment.

**Fire Protection:** The compartment has good road access for fire suppression activities. Small stands of conifer intermixed with hardwoods and a moderate response time can keep 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: 88

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		27	64	10	77	28	118	62	21										407
Black Spruce								2	15										17
Bog or Marsh	45																		45
Grass	89																		89
Jack Pine							6												6
Lowlnd Brush	1																		1
Mx Swmp Cnfr									22										22
Non Stocked	2																		2
Red Pine		27				70	140												237
Spruce Fir						129			16									11	156
Treed Bog	29																		29
Upland Hdwds		5																273	278
Water	11																		11
White Pine																		1	1
<b>Total</b>	<b>177</b>	<b>59</b>	<b>64</b>	<b>10</b>	<b>77</b>	<b>227</b>	<b>264</b>	<b>64</b>	<b>74</b>									<b>285</b>	<b>1301</b>

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Michigan Department of Natural Resources - Operations Inventory System  
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LAKE SUPERIOR STATE FOREST

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LUCE COUNTY

COMPARTMENT: 88

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	407																										407
S Black Spruce		17																									17
V Bog or Marsh			45																								45
G Grass					89																						89
J Jack Pine							6																				6
L LowInd Brush									1																		1
Q Mx Swmp Cnfr												22															22
X Non Stocked													2														2
R Red Pine																237											237
F Spruce Fir																			156								156
D Treed Bog																						29					29
M Upland Hdws																								278			278
Z Water																									11		11
W White Pine																										1	1
<b>Total</b>	<b>407</b>	<b>17</b>	<b>45</b>		<b>89</b>		<b>6</b>		<b>1</b>			<b>22</b>	<b>2</b>			<b>237</b>			<b>156</b>			<b>29</b>		<b>278</b>	<b>11</b>	<b>1</b>	<b>1301</b>

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **88**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	13671 Cds	Hardwood	4949 Cds
Hardwood	161 Mbf	Hardwood	19 Mbf
Softwood	10300 Cds	Softwood	4748 Cds
Softwood	750 Mbf	Softwood	601 Mbf
Sum TotVol	25793 Cds	Sum CutVol	10937 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	434
1301			

**NEWBERRY FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 88**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>10</b>	<b>A6</b>	9	55	55	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : Mature aspen showing signs of decay and rot. Poor quality red maple. Pockets of higher BA of maple than aspen. Scattered large diameter, pulp quality white pine. Occasional black cherry. Stand is mature, recommend final harvest. Access is via the fuel break to the south through stand 4. Management objective is aspen. Alternative MO is a mixed stand of aspen, northern hardwoods (red maple and cherry) and white spruce. Kalkaska sand.</p> <p>Wld : leave some white pine and black cherry</p>										
<b>11</b>	<b>M6</b>	17		51	northern hardwood	unevenaged	selection	1		
<p>comnts Fmd : Mostly red maple with some hard maple and black cherry. A few small sawlog diameter trees. Some good quality staight boles. Less quality along Co Rd 422 (both sides). Stand was non-commercially thinned in the past. Recommend a selection harvest. Remove low quality red maple and hard maple. Management objective is northern hardwoods. Alternative management objective is northern hardwoods with a balsam component. Kalkaska sand.</p> <p>Wld : leave yellow birch and a beech component</p>										
<b>16</b>	<b>M6</b>	13		50	northern hardwood	unevenaged	selection	1		
<p>comnts Fmd : Some good quality in the stand. Straight boles in both red maple and hard maple. Tall trees. Rolling hills. Pockets with a thicker balsam understory. Good quality throughout. Recommend selection harvest along with stand 11. Management objective is northern hardwoods. Alternative management objective is northern hardwoods with a balsam component. Liminga-Alcona soil complex.</p> <p>Wld : leave a beech component</p>										
<b>30</b>	<b>A6</b>	21	69	63	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : Mature aspen with red maple and balsam. Some spruce along the bog bordering the stand. Aspen showing rot and mortality. Open areas through the stand. Lots of edge effect with adjacent openings. More balsam and spruce mixed in the north and east part. Clones of large diameter aspen. ORV trail goes through the stand. Recommend for final harvest. Stand continues into Compartment 90 (less than 10 acres).. Put it all up as one sale. Management objective is aspen. Alternative MO is a mixed stand of aspen and northern hardwoods (maple, cherry and beech). Liminga-Alcona soil complex.</p> <p>Wld : leave a cherry component, a conifer component and a beech component</p>										
<b>53</b>	<b>M6</b>	16		55	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : Mix of hard maple and red maple. Mostly pulp size with a few sawlog trees. Scattered yellow birch and beech. Stand is silviculturally ready for a selection harvest. Remove low quality trees. Access is from the southwest from Co Rd 453. Set up as a sale with stand 55 and possibly with stands prescribed along the same two track road in Compartment 90. Management objective is northern hardwoods. Alternative MO is northern hardwoods with a balsam component. Liminga-Alcona soil complex.</p> <p>Wld : leave yellow birch, and a beech component</p>										
<b>55</b>	<b>A6</b>	24	58	64	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : Aspen with red maple and scattered large spruce. Nice M3 understory. Some rot in the aspen. Pockets of hardwoods. Lots of maple in the understory. Aspen is mature and ready to be harvested. Recommend a final harvest. Access is from the west from Co Rd 453. Set up as sale with stand 53 and prescribed stands in Compartment 90 along the same road. Management objective is aspen. Alternative MO is a mixed stand of aspen, northern hardwoods, and a conifer component. Kalkaska sand.</p> <p>Wld : leave yellow birch if any, paper birch and the large scattered spruce</p>										
<b>61</b>	<b>A6</b>	16	60	60	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : Aspen stand with a lot of variability. Pockets of A5/M5, some open areas, small pockets of red pine. Scattered spruce and white pine. Rot and mortality in aspen is patchy. M3 understory is thick throughout the stand. Stand is ready for a final harvest. Leave white pine and red pine as residual (will account for less than 10 BA). Management objective is aspen with scattered residual white pine. Alternative MO is a mixed stand of aspen, northern hardwoods, white pine and scattered residual white pine.</p>										
<b>63</b>	<b>R6</b>	10	45	60	red pine	immature	thinning	1		
<p>comnts Fmd : Planted 1960. Rows run roughly north and south and are approx. 12ft apart. Thick plantation. Ready to be thinned. Either 3rd row thin or if rows are tootight, take 2 rows and leave 3 rows. Management objective is to thin the stand to increase growth and vigor of the residual stand. Alternative MO is not needed. Liminga-Alcona soil complex.</p> <p>Wld : leave any white pine</p>										
<b>71</b>	<b>M6</b>	19		52	northern hardwood	unevenaged	selection	1		
<p>comnts Fmd : Tall, straight maple. Some good quality in both the hard maple and red maple. Scattered black cherry. Drainage flowing west to east through the middle of the stand (from bog to west to the pond to the east). Slightly less quality in the north portion of the stand. Possible winter cut to get to the north part of the stand with a culvert to cross the drainage. Stand is ready to be managed by selection harvest. Management objective is northern hardwoods. Alternative MO is northern hardwoods with a balsam component. Liminga-Alcona soil complex.</p> <p>Wld : leave black cherry and paper birch</p>										

**NEWBERRY FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 88**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>80</b>	<b>R6</b>	56	46	55	red pine	immature	thinning	2		
<p>comnts Fmd : Red Pine plantation planted in 1959. East and west rows. Some larger (12-14" dbh) trees that are fairly limby. Low quality logs. More aspen in the east half of the stand. No evidence of the stand ever being thinned. High basal area. Prescribe for a thinning, 3rd row thinning if spacing between rows allows. If tight in areas, go to a method of removing 2 rows and leaving 3 rows. Management objective is to thin the stand and improve the growth and vigor of the residual trees. No alternative MO is needed. Liminga-Alcona soil complex.</p> <p>Wld : leave any white pine</p>										
<b>97</b>	<b>R6</b>	12	56	50	red pine	mature	thinning	1		
<p>comnts Fmd : Planted in fall of 1949. Stand is a mix red pine, jack pine and smaller maple and some aspen. Alternating rows of red pine and jack pine. Pockets of maple and aspen. Jack pine is mature, showing decline and needs to be harvested out of the stand. Harvest the stand by thinning. Remove all jack pine, maple and aspen. Some red pine may be marked in areas for maneuverability if needed. Manage the stand for red pine. Set up for sale with stand 98. Management objective is to thin the stand to improve the growth and vigor of the residual red pine. No alternative management objective is needed. Liminga-Alcona soil complex.</p> <p>Wld : leave any white pine</p>										
<b>98</b>	<b>J6</b>	6	56	50	jack pine	mature	final harvest	1	natural regeneration	
<p>comnts Fmd : Mature jack pine with scattered red pine. Stand was originally part of same stand with stand 97 to the north. Separated out as a separate stand due to the species composition. Jack pine is mature and showing decline. Some blowdown. Management objective for the stand will be jack pine. Final harvest to remove all jack pine and any aspen and hardwoods within the stand. Retain red pine after harvest. Scarification to follow the harvest to promote jack pine regeneration. Machine planting to follow scarification if necessary. Set up as a sale with stand 97. Access will be from the south to avoid trucks turning onto newly paved Co Rd 455. Management objective is jack pine. Alternative management objective is a mix of jack pine and red pine, with a possible hardwood component.</p> <p>Wld : leave red pine in the stand</p>										
<b>101</b>	<b>R6</b>	8	56	55	red pine	immature	thinning	1		
<p>comnts Fmd : Planted in 1949. Thinned in 1980. Thinned again in 1999 (#026-97). Appears that larger diameter pine was removed in the last thinning. Good mix of pulpwood and sawlog size diameters. Some utility pole quality trees. Crowns are crowded. Recommend another thinning to open up the crowns and add some diameter to the residual stand. This thinning should add diameter to the stand (R9). Reduce the basal area of the stand to an average of 110. Manage as a red pine plantation. Management objective is improving the growth on the residual red pine.</p> <p>Wld : leave large maple on the south end</p>										
<b>109</b>	<b>A6</b>	66	55	66	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : Slightly larger diameters, taller and higher basal area than adjacent aspen stands (stands 104 and 105). Pockets of balsam in the understory. Common stand boundary between the stands is hard to delineate. Stand boundary between this stand and stand 105 follows the thicker conifer understory is stand 105. Clones of larger aspen throughout the stand. Small components of spruce, white birch and cherry within the stand. Stand is silviculturally ready for a final harvest. Leave any white pine as residual. Snowmobile trail runs through the stand. Harvest should be a summer time harvest to avoid conflicts with snowmobile trail. Management objective is aspen. Alternative management objective is a mixed stand of aspen, northern hardwoods and a possible component of conifers (balsam and spruce). Liminga-Alcona soil complex.</p> <p>Wld : leave yellow birch and a paper birch and beech component</p>										
<b>739</b>	<b>M6</b>	12		50	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : LUCE COUNTY LEASE LAND. Stand sold as a sale in 2001. Thinned from 2001-2003. Multiple stems, lower quality. Most of larger diameter trees removed in the most recent harvest. The western portion of the original stand (stand 21) was clearcut. The county is planning to evaluate the stand for a traditional thinning/selection in 2009 when stand 740 and 741 are harvested.</p>										
<b>740</b>	<b>R9</b>	2	55	70	red pine	immature	final harvest	2	planting	
<p>comnts Fmd : LUCE COUNTY LEASE LAND. Stand was thinned between 1999-2001. Nice tall red pine with M3 understory. Adjacent to Co Rd 407. January 2004 Administrative Update - Luce County Lease Land lists this stand scheduled for harvest again in 2009. The plan of the county is to evaluate for final harvest, followed by site preparation and planting back to red pine. Treatment should be within the guidelines established in the management plan of the Luce County Lease.</p>										
<b>741</b>	<b>R9</b>	14	55	70	red pine	immature	final harvest	2	planting	
<p>comnts Fmd : LUCE COUNTY LEASE LAND. Stand was thinned between 1999-2001. Nice tall red pine with M3 understory. Adjacent to Co Rd 407. January 2004 Administrative Update - Luce County Lease Land lists this stand scheduled for harvest again in 2009. The plan of the county is to evaluate for final harvest, followed by site preparation and planting the site back to red pine. Treatment should be within the guidelines established in the management plan of the Luce County Lease.</p>										
<b>774</b>	<b>R0</b>	27	1	60	red pine	in process of regeneration		0	planting	
<p>comnts Fmd : LUCE COUNTY LEASE LAND. Stand was originally planted in 1960. Recently final harvested in 2003-2004. Management plan states that the stand is to be re-planted to red pine after final harvest. Grossman Forestry will have a planting plan developed next spring to replant the stand back to red pine. The site will be herbicided, trenched and planted, followed by a release.</p>										

**NEWBERRY FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 88**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
<b>775</b>	<b>R9</b>	27	56	65	red pine	immature	final harvest	2	planting	
<p>comnts Fmd : LUCE COUNTY LEASE LAND. Stand was set up for sale in 2003, thinned between 2003-2004. January 2004 Administrative Update - Luce County Lease Lands list this stand as prescribed for harveste again in 2011. The plan of the county forester is to evaluate the stand for final harvest, followed by site preparation and planting back to red pine, in accordance with the management plan specifications. Treatment should be within the guidelines established in the management plan of the Luce County Lease.</p>										
<b>777</b>	<b>M6</b>	8		54	northern hardwood	unevenaged	selection	2		
<p>comnts Fmd : LUCE COUNTY LEASE LAND. Originally prescribed by county for conversion to red pine. Recommend leaving as hardwood stand. Some quality within the stand. Scattered yellow birch. Basal area ranges from 90-110 sq ft on average. Liminga-Alcona soil complex. The most recent information from the county forester is to maintain as a hardwood stand a evaluate for a traditional thinning/selection within the next 10 years, probably in 2011 when stand 775 is harvested.</p>										
<b>790</b>	<b>R9</b>	67	56	65	red pine	immature	final harvest	2	planting	
<p>comnts Fmd : LUCE COUNTY LEASE LAND. Stand was set up for sale in 2000, thinned between 2000 and 2002. No exact time available. Fairly well spaced crowns. The January 2004 Administrative Update for the Luce County Lease Lands, written by Grossman Forestry Company states that this stand is prescribed for another harvest in 2010. The county forester's plan is to evaluate the stand for final harvest, to be followed by site preparation and planting back to red pine, in accordance with the management plan specifications. Treatment of the stand should be within the guidelines established in the management plan of the Luce County Lease.</p>										
<b>792</b>	<b>A6</b>	2	55	66	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : LUCE COUNTY LEASE LAND. This stand is an extension of Stand 109 on state land. Following notes are from stand 109. Slightly larger diameters, taller and higher basal area than adjacent aspen stands (stands 104 and 105). Pockets of balsam in the understory. Small components of spruce, white birch and cherry within the stand. Stand is silviculturally ready for a final harvest. Leave any white pine as residual. Harvest should be a summer time harvest to avoid conflicts with snowmobile trail. Liminga-Alcona soil complex.</p>										
<b>Total Acres.....</b>		<b>452</b>								

**NEWBERRY FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 88**

**Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
110	A6	9	66	64	aspen (upland)	mature	final harvest	2		

TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity

comnts Fmd : Aspen stand with lots of variability. Pockets of thick mature balsam. Low quality, limby maple. Some cherry and white birch. Scattered yellow birch. Thick aspen clone on west end. Areas of blowdown. Aspen is dying out. Borders a bog with beaver activity to the south. Final harvest the stand before the aspen is all dead. Open areas should be included in the stand when set up for harvest. Access will have to be from the east via two track road from Co Rd 407. Leave any yellow birch as residual. ORV trail runs through the stand. Management objective is aspen. Alternative management objective is a mix of aspen, balsam, and northern hardwoods. Liminga-Alcona soil complex.

Wld : leave yellow birch

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**Total Acres..... 9**

