



**GWINN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 96 ENTRY YEAR: 2008
Compartment Acreage: 1709 GIS acres County: Alger

Revision Date: 9/6/2006

Stand Examiner: Jerry Mohlman

Legal Description: T44N R21W Sections 1,12,13

Management Goals: For the 10 yr. period beginning in 2008, We will have 3 Aspen harvests. One harvest is large due to extensive blowdown and overmaturity. This will help balance the age/class distribution of aspen in this area. We will leave all White Pine, Cedar, and Hemlock if present in these harvests. We will have two selection harvests. We will leave den trees and some other trees important to wildlife as well as large remnant old growth trees in these selection sales. No tree species will be eliminated in these selection harvests. The overall goal is to improve the growth and quality of the timber in these stands by removing trees of poor quality and potential competing with the crop trees. Also we are proposing burning to maintain large openings north of Trout Lake road. These openings are being filled in with Aspen and other tree species. Mechanical removal such as roller chopping will be backup if burning does not occur.

Soils and topography: Kalkaska-Waiska Complex, Chippeny-Nahma Mucks, Ensign fine sandy loam, Greylock-Cookson complex, Traunik gravelly fine sandy loam, Kiva fine sandy loam, Greylock fine sandy loam, Reade silt loam, Kalkaska sand, Nahma-Ensign complex, McMaster cobbly sandy loam, Namur-Ruse complex. Mostly level swamps with level or gently rolling uplands. Terraces left from glacial Lake Duluth drainage.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Mostly state land with some private hunting camps northwest. Private residences are along Trout Lake road. Forest Service land east. Some private forestland is southeast.

Unique, Natural Features: Alvar southeast is unique landscape however it is degraded due to exotic invasive species.

Archeological, Historical, and Cultural Features: Old logging camp and homestead sites.

Special Management Designations or Considerations: Special Conservation Areas (formally know as Old Growth stands) are shown on the attached map.

Watershed and Fisheries Considerations: Tributaries of Whitefish River are spring fed ponds and associated streams. Dexter creek.

Wildlife Habitat Considerations: Compartment #96 – Maintain large opening complexes with prescribed fire and mechanical means. Large openings are managed as part of a larger opening system to the north. Strive for the best possible age class distribution and species/structural diversity in aspen. Optimize species and vertical structural diversity and complexity in treated northern hardwoods stands. Enhance horizontal

structural heterogeneity and complexity by maintaining a wide range of basal areas in the array of northern hardwoods stands. Underplant hemlock and/or white pine in stands 7, 12 and 16.

Mineral Resource and Development Concerns and/or Restrictions: Compartment 96 Sections 1, 12 and 13, T44N-R21W, Alger County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and peat and muck. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. The Trenton and Black River are quarried for stone/dolomite elsewhere in the UP. Gravel pits are located in the area and potential appears to be good. This compartment has never been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Good throughout compartment on uplands via Trout Lake Road and Paulsen Road.

Survey Needs: We are not requesting any corners this entry period.

Recreational Facilities and Opportunities: General dispersed forest recreation.

Fire Protection: Fire frequency and intensity is low in this compartment.

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 special conservation areas**

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

ALGER COUNTY

COMPARTMENT: 96

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																Total	
	Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159		All Aged
Aspen		113	408		49	104	106	182											962
Cedar									13	23									36
Grass	136																		136
Lowlnd Poplr			15																15
Mx Swmp Cnfr					4	59			48										111
Spruce Fir				4				29											33
Swamp Hrdwds							2			33									35
Upland Hdwds							84											293	377
Water	4																		4
Total	140	113	423	4	53	163	192	211	61	56								293	1709

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

ALGER COUNTY

COMPARTMENT: 96

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	950				12																						962
C Cedar				36																							36
G Grass					136																						136
P Lowlnd Poplr										15																	15
Q Mx Swmp Cnfr												111															111
F Spruce Fir																			33								33
E Swamp Hrdwds																				35							35
M Upland Hdwds																								377			377
Z Water																									4		4
Total	950			36	148					15		111							33	35				377	4		1709

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

ALGER COUNTY

COMPARTMENT: **96**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10090 Cds	Hardwood	3370 Cds
Hardwood	749 Mbf	Hardwood	9 Mbf
Softwood	3074 Cds	Softwood	565 Cds
Softwood	97 Mbf	Sum CutVol	3953 Cds
Sum TotVol	14856 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	294
1709			

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 96

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
4	A3	12	16	70	grass	immature		0	other - specify in remarks	
<p>comnts Fmd : A3A2 Good stocking 2" DBH clones and some 1" areas. Some sparse areas. This area was all typed grass last entry period but has regenerated to aspen except small area north still typed grass. Mostly pure aspen with not much other species. Will attempt to remove aspen by roller chopping and put back into an open area.</p> <p>Wld : Use roller-chopper to re-establish opening in conjunction with stand 400 and adjacent opening to north in compartment 97.</p>										
5	A6	43	58	70	aspen (upland)	mature	final harvest	2	natural regeneration	
<p>comnts Fmd : Mature 5 Stick Aspen recommend harvest. A few cedar which will be left if stand is harvested. Patches of hardwood south to separate out and mark, probably less than 2 acres. This stand could hold also if needed for age/class distribution. Some areas only 4-5 stick especially west side of stand and along North edge. Some Fir in spots 3-4 stick.</p> <p>Wld : Leave some scattered white spruce poles and sawtimber. Leave all white birch, cherry, and elm.</p>										
7	M6	28		59	northern hardwood	unevenaged	selection	2	natural regeneration	
<p>comnts Fmd : Patches of aspen and fir but overall good potential on hardwood. Mostly 2-4 stick smaller trees with scattered large old residual trees of poor timber quality. Some of these have good wildlife value and will be retained but some will be removed to allow increased growth on the good quality pole-sized hardwood. Probably designate all fir to be removed from stand except under 1 stick and mark spruce, leaving some in the stand. Some areas have small trees with not much to mark.</p> <p>Wld : Retain some overstory aspen trees for eventual snag recruitment and grouse budding purposes. Leave all white spruce. Promote diversity of overstory species and size-class distribution. Underplant hemlock and/or white pine.</p>										
12	E6	2	56	31	swamp hardwoods	immature		0	planting	
<p>comnts Fmd : This stand changed to E6 from former L. Mostly E6E4Q4 with small upland hardwood hummocks in stand. Trees smaller 2-3 stick. Wildlife division may plant hemlock in the understory after the sale.</p> <p>Wld : Underplant hemlock and/or white pine as part of mesic conifer initiative in surrounding stand 7.</p>										
16	M6	31		59	northern hardwood	unevenaged	selection	2	natural regeneration	stand with fdf potential
<p>comnts Fmd : Good quality potential for timber. Some aspen. Stand is thin and small diameter timber in center and in other areas but most of stand would benefit from a thinning. Some areas heavy to mature fir that should be removed. Those areas will be lower BA after harvest but regeneration should be no problem in this stand. We will leave den trees and other trees with wildlife value at harvest. Thinning will emphasize crop tree release favoring good pole-size hardwoods with good timber potential to leave, while removing the trees with low forks, canker and other defects.</p> <p>Wld : Promote diversity of overstory tree species and size-class distribution. Leave some overstory aspen for eventual snag recruitment and grouse budding purposes. Retain all white spruce. Underplant hemlock and/or white pine.</p>										
19	A6	38	51	70	aspen (upland)	mature	final harvest	2		
<p>comnts Fmd : More mature and well-stocked south. Cedar stand typed out but actual stand boundary may be different. There is a seasonal stream and spring in that area. North is A6A5 sparse in areas. More spruce/fir near to cedar and wetter area. Some 1/2 acre F3 gaps.</p> <p>Wld : Small inclusions of F5/F6. Leave 2 stick and smaller balsam fir to maintain conifer cover/seed component for habitat complexity. Leave all cherry, white spruce, and white birch. Leave some scattered overstory aspen along Q6 boundary to south for grouse budding purposes and to soften edge effect to lowland conifer.</p>										
28	M6	15		70	northern hardwood	unevenaged	selection	6	natural regeneration	
<p>comnts Fmd : Thinned 1988. Managed with compartment west and is being marked now. Not quite as good quality as farther west. Den trees left as well as other good wildlife values. Overall stand timber quality is to be improved with thinning by releasing crop trees and removing poor quality trees such as those with disease, low forks, etc.</p>										
32	A5	139	61	70	aspen (upland)	high risk	final harvest	1		
<p>comnts Fmd : Most of stand has a lot of blowdown about 2 years old. Some areas of up to 1/2 acre have no standing trees. East is more P4 or F4 and converting to fir. West is converting to hardwood, Understory is 2" fir or 1" maple respectively. Beaver active along stream and is converting there. Only about 1/2 of stand is A6. Younger trees in center but elsewhere older aspen.</p> <p>Wld : Retain blown-down trees. Leave all white spruce, white birch, elm, and cherry. Leave 2-stick balsam fir.</p>										
52	A3	130	16	70	aspen (upland)	immature		0	opening maintenance	
<p>comnts Fmd : A3A2 Good stocking 2" DBH clones and some 1" areas as well as some larger. Some sparse areas. This area was all typed grass last entry period but has regenerated to aspen. Mostly pure aspen with not much other species but a few scattered fir and spruce. Part of stand will be converted to G after rollerchopping treatment between existing openings.</p> <p>Wld : Roller-chop along western edge of stand as part of effort to maintain stand 401. Will roller-chop SW portion of stand to provide opening to connect stands 401 and 423.</p>										

GWINN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 96

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
401	G0	73		70	grass	nonstocked		0	opening maintenance		
<p>comnts Fmd : Stand is much smaller than typed last time. Aspen invading on edge. Also cherry and fir in stand. Recommend burning open area to eliminate fir and set back cherry. Mechanical removal as backup for burn.</p> <p>Wld : Use chainsaws or other removal methods to remove any undesirable woody plants left after Rx fire.</p>											
423	G0	11		70	grass	nonstocked		0	opening maintenance		
<p>comnts Fmd : Stand is much smaller than typed last time. Aspen invading on edge. Also cherry and fir in stand. Recommend burning open area to eliminate fir and set back cherry. Mechanical removal as backup for burn.</p>											
Total Acres.....		522									

**Proposed Treatments
With Limiting Factors**

Compartment: 96

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 96
 T44N, R21W, Sec. 1, 12, 13
 County: Alger
 Unit: Gwinn
 YOE: 2008
 Acres: 1,709 GIS Calculated
 Stand Examiner: Gerald Mohlman
 Map Revised: 9/06/2006
 Map Phase: Pre-review

01
 12
 13



Legend

- Miris Corners
- - - County Gravel
- Paved Roads
- Poor Dirt Roads
- Water Features
- Stand Boundary
- Biodiversity/Old Growth Area
- 027 - Opening Maintenance/Prescribed Burning
- 100 - Final Harvest
- 148 - Final Harvest/Natural Regeneration/Other
- 848 - Selection/Natural Regeneration/Other

