



**FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 125 ENTRY YEAR: 2008**

**Compartment Acreage: 1222      County: Arenac**

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**Revision Date: August 2006, August 24, 2006**

**Stand Examiner:** Steven Nyhoff

**Legal Description:** T20N, R3E, Sections 20, 28-30

**RMU (if applicable):**

**Management Goals:**

The compartment is heavy to early successional ecosystem of aspen with some areas of pine now coming in. Continue to manage for the current cover types looking for opportunities to increase the conifers and oak component in the compartment where stands are being managed. This may entail marking some conifer and oak to be retained in clearcuts where natural regeneration is expected.

**Soil and Topography:**

The terrain in the compartment is generally level with some undulating relief. The soils are mainly well-drained Rubicon sand on the upland and ridges; somewhat poorly drained Au Gres sand on the mid-slopes and lower plains; and poorly to very poorly drained Roscommon sand in the broad flat depressions and drainages. The water table does vary substantially in the compartment from spring to fall with much of the Roscommon soils being flooded in the spring and drying out in late summer.

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

The state land is in two main blocks and these are associated with larger blocks of state ownership south. A strip of land owned by Consumers Power bisects the compartment along the west 1/16 line in section 29. This land is used for a major overhead transmission line. In addition, through section 28, there is a major gas transmission pipeline.

The private lands in the area are recreational properties that are mainly used for hunting.

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

In the compartment there are records of Doll's merolonche (moth). There is also records of an eagle to the southwest of the compartment.

**Archeological, Historical, and Cultural Features**

There are no known occurrences, and none were detected during the OI process.

**Special Management Designations or Considerations:**

The land east of the Lame Duck Truck Trail and connector loop is in the Lame Duck Foot Access Area (LDFAA). In this area, all mechanically drive vehicles and horse traffic is restricted and is designated as a HCVA. In addition, the land east of Well's Creek, west of I-75, and south to the north edge of T19N R3E has a director order that restricts vehicular traffic.

**Watershed and Fisheries Considerations:**

The compartment has one significant creek in it, Well's Creek. There are currently no scheduled treatments within 100 feet of it. Fisheries concerns are minimal.

**Wildlife Habitat Considerations:****Mineral Resource and Development Concerns and/or Restrictions:**

Surface sediments consist of lacustrine (lake) sand and gravel and fine-textured till. The glacial drift thickness varies between 100 and 400 feet. Beneath the glacial drift are the Pennsylvanian Saginaw Formation and the Mississippian Michigan and Bayport Formations. The Michigan is quarried for gypsum, the Bayport for limestone and the Saginaw is used for clay/shale. A sand pit is located in Section 29 and there may be some gravel potential. North Adams Field is located three miles to the southeast. The Field has produced over 9.5 MBO primarily from the Dundee Formation. The compartment currently has several active leases and the rest of the Compartment has been nominated for the June 2006 lease auction.

**Vehicle Access:**

Access is restricted in much of the compartment by means of two director orders, one for the LDFAA and the other for the land east of Well's creek. The compartment does have a well-developed road system in the east side of the compartment, but gates in compartment 126 control access. The center part of the compartment does have a well-developed road system that provides adequate access.

**Survey Needs:**

Much of the compartment was resurveyed in 2005-2006 and therefore no survey is needed. The exception is the S  $\frac{1}{2}$  of SE  $\frac{1}{4}$  of Section 20, which needs to have the northeast corner put in because of a possible fence trespass. However, this area is being recommended for disposal, so a survey is not critical.

**Recreational Facilities and Opportunities:**

The compartment has no formal recreational facility but it is heavily used for hunting. There is a MDOT rest area in the northeast corner of the compartment for I-75 traffic. The area is fenced and there appears to be little or no use of the state land by the public from the rest area.

**Fire Protection:****Additional Compartment Information:**

The S  $\frac{1}{2}$  of the SE  $\frac{1}{4}$  is recommended for disposal.



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

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

ARENAC COUNTY

COMPARTMENT: 125

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	387													67						23							477
V Bog or Marsh			34																								34
C Cedar				7																							7
G Grass					24																						24
J Jack Pine							52																				52
L LowInd Brush									97																		97
N Marsh											43																43
O Oak														100													100
R Red Pine																35										5	40
E Swamp Hrdwds																				210							210
D Treed Bog																						13					13
M Upland Hdwds																								24			24
Z Water																									28		28
W White Pine																										73	73
<b>Total</b>	<b>387</b>		<b>34</b>	<b>7</b>	<b>24</b>		<b>52</b>		<b>97</b>		<b>43</b>			<b>167</b>		<b>35</b>				<b>233</b>		<b>13</b>		<b>24</b>	<b>28</b>	<b>78</b>	<b>1222</b>

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

ARENAC COUNTY

COMPARTMENT: 125

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	4825 Cds	Hardwood	2162 Cds
Hardwood	462 Mbf	Hardwood	143 Mbf
Softwood	2249 Cds	Softwood	718 Cds
Softwood	254 Mbf	Softwood	105 Mbf
Sum TotVol	8506 Cds	Sum CutVol	3376 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	259
1222			

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 125 Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>8</b>	<b>R9</b>	12	53	70	red pine	mature	thinning	2		
comnts Fmd : The stand is a natural red pine that is variable in density. It could be thinned but windthrow could be a problem in the areas. Red Pine growth appears to be ok with space between whorls being 1-2 feet averaging 1.5 feet at least initially. Stand appears to be regenerating naturally with seeding of jack pine, red pine, and white pine present in the stand.										
<b>14</b>	<b>A6</b>	50	56	60	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : Area was burned in 1950. The stand has minor wet draws running through it. The cover type is very variable going from E3 to E6 and A4 to A5. The area is mixed with oak, tag alder and grasses. If the stand is to be maintained as aspen it needs to be clearcut during late summer through winter to max regeneration. When it is harvested leave 10-20 BA of oak for seed and mast were possible. Mixed hardwood are a mix of green ash, black ash, and mixed oaks.										
<b>19</b>	<b>J6</b>	22	45	50	jack pine	immature	final harvest	2	planting	
comnts Fmd : The stand is somewhat hummocky with the density of trees going from well stocked to medium stocked. The ground cover is predominately bracken fern with some areas of blueberry and shrub less than 2'.										
<b>22</b>	<b>M6</b>	17	80	53	northern hardwood	mature	final harvest	2	natural regeneration	
comnts Fmd : The stand is on a ridge that goes around stand 24, to the east of the stand is Well's Creek. The stand is a mix of well stocked pockets and poorly stocked pockets. Harvest the stand by clearcut to the top of the ridge above Well's Creek. There are areas along the ridge that have slopes that are harvestable. In these area leave a buffer of 25-50' feet from the tag alder edge of the flood plain to avoid sedimentation into the creek. The stand is expected to regenerate naturally but if not inter plant with red pine to get full stocking. The stand may also regenerate to and aspen stand mixed with oak and maple this is acceptable.										
<b>24</b>	<b>R6</b>	15	59	60	red pine	immature	thinning	2		
comnts Fmd : Stand was set up to be harvested last YOY but came back to the state. The marks on the trees are still present but faded and will need to be redone. The stand still needs to be 3rd row thinned and have all the misc. hardwood remove unless the removal will cause unacceptable damage to residual pine.										
<b>29</b>	<b>O5</b>	25	61	46	oak	mature	final harvest	1	natural regeneration	
comnts Fmd : The stand is fairly dry with areas that are hummocky and seasonable wet. Overall the stand is sparse but could be clearcut to try and increase stocking. Aspen has a low site index just above merchantability. If harvest clearcut leave oak <4" DBH. The stand should be harvested during the dormancy period. It should regenerate to a med stocking of aspen, maple and oak. If not interplant the area with red pine. The stand may also regenerate as an M-Type with an aspen and oak componet, this is acceptable.										
<b>30</b>	<b>R9</b>	3	51	50	red pine	mature	final harvest	2	planting	
comnts Fmd : The stand is a small stand with larger diameter pine in it. The trees are not of the highest quality being somewhat branchy with lot of dead branches. The stand should be clearcut and replanted to Red Pine.										
<b>42</b>	<b>E6</b>	10	80	66	swamp hardwoods	old growth (potential or actual)	selection	2	natural regeneration	
comnts Fmd : The cedar in the stand is concentrated along the west side. It could be harvest during dry summer or cold winter. Harvest the stand by removing all the aspen and some of the large swamp hardwood retain all the conifer convert the area fully to swamp hardwood. The stand has trace species of basswood and american elm. This stand after harvest will have a variable BA because the aspen is on slight ridges. The Variable BA is acceptable. The stand should regenerate well and be a mix of oak and maple. This stand if it does not regenerate naturally it will be at least a medium stock stand. The stand is in the LDFAA so it is a HCVA.										
<b>52</b>	<b>A6</b>	15	51	46	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : This stand is variable and is a mix of open areas and well stocked areas. But it is wet overall. Because of the soils, rutting could be a problem and so could regeneration. It is expected to regenerate naturally to a medium stocked aspen and red maple with some oak. If regeneration fails the stand should be interplanted with jack pine. Also part of the stand is visable from Roseburg road so visual should be considered.										
<b>54</b>	<b>E6</b>	30	66	66	swamp hardwoods	immature	final harvest	2	natural regeneration	
comnts Fmd : The stand goes from dry to wet and back to dry. The soils change from Rubicon to AuGress to Roscommon. The stand shows sign of standing water in the spring.										
<b>65</b>	<b>A6</b>	10	60	50	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : The stand is along Roseberg Rd and is variable going from wet to dry. The soil goes from Au Gres to Roscommon to Rubicon and back to Au Gres. The cover type grades from an E-Type to A-Type. The stand is mature and needs to be harvested. Reserve pulpwood size conifers and oak < 4" DBH for visual cut the rest of the species to 2" DBH. When stand is harvested it should regenerate as a aspen type mixed with oak and red maple.										

**Total Acres..... 209**

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 125** Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>25</b>	<b>R6</b>	5	51	62	red pine	immature	thinning	2		

TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : the stand is a red pine plantation that needs to be 3rd row thinned. The access is cut off by a drainage, I-75, MDOT rest area, and private land. If access is gained this YOE thin the stand if not look to clearcut it in 10 years. The stand is visable both from the public rest area on I-75 and I-75 itself.

<b>27</b>	<b>A5</b>	3	80	55	aspen (upland)	mature	final harvest	2	natural regeneration	
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access  
Blocked by other physical obstacle

comnts Fmd : The stand is sparse and the ground cover is heavy to sweet fern and raindeer moss. The oak saw logs are 80 yrs old but the aspen in younger. The area is not accessible because of a drainage in stand 26, Well's Creek, the MDOT rest area and private land.

<b>72</b>	<b>A4</b>	16	70	50	aspen (upland)	sparse	final harvest	1	natural regeneration	
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : The stand is sparse and the aspen is declining. The oak in the area is seeding in and it will eventually become an oak stand. If the aspen is to be maintained in the stand it will have to be cut during the dormancy peiord this YOE. The stand is also landlocked and will have to be habitat cut. This landlock 80 is recommended for disposal.

<b>74</b>	<b>A4</b>	12	70	60	aspen (upland)	sparse	final harvest	1		
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : The stand is overmature and if the aspen is to be maintained is will need to be cut this YOE during the dormancy peiord. If the stand is harvested cut all maple and aspen leaving oak for seed and mast. The ability to regeneate the stand is questionable for the stocking is already low, cutting may allow the stand to become med stocked. If the stand does not regeneate plant to jack pine. But this stand is on an 80 that is recommended for disposal.

<b>172</b>	<b>E6</b>	6	70	60	swamp hardwoods	immature	selection	2	natural regeneration	
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TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : The stand is located in a swale that is fairly wet in the spring and dries out in summer. The stand could be thinned but it is on a landlocked parcel that is recomended for disposal. If harvest it is expected to regenerate well.

<b>174</b>	<b>A4</b>	8	70	50	aspen (upland)	mature	final harvest	2	natural regeneration	
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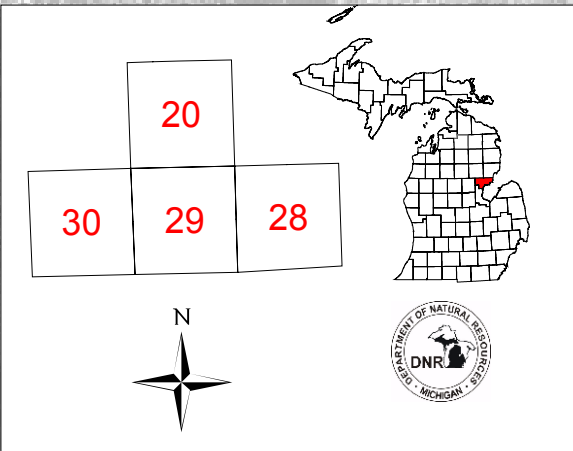
TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : The stand is fairly sparse and it has a mix of scott's pine and oak in the west end of the stand. The overstory is 70 yrs old and is dying and the regeneration current in the stand is approximatly 40 years. The ground is hummocky stand needs to have the aspen cut but the it is land locked and the parcel is recommended for disposal. If cut remove the aspen, maple, scott pine leaving all the oak for seed and mast.

**Total Acres..... 50**

# Field Map

Compartment 125  
 T20N, R03E, Sec. 20, 28, 29, 30  
 County: Arenac  
 Unit: Gladwin  
 YOE: 2008  
 Acres: 1,222 GIS Calculated  
 Stand Examiner: Steven Nyhoff  
 Map Revised: 11/06/2006  
 Map Phase: Pre-review



### Legend

- Miris Corners
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Trails
- Pipeline
- Water Features
- Berms
- Stand Boundary
- Biodiversity/Old Growth Area
- 100 - Final Harvest
- 116 - Final Harvest/Planting
- 148 - Final Harvest/Natural Regeneration/Other
- 400 - Thinning
- 848 - Selection/Natural Regeneration/Other

