



## FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 24 ENTRY YEAR: 2009

Compartment Acreage: 4749      County: Gladwin

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**Revision Date:** March 2007, May 2007

**Stand Examiner:** Steven Nyhoff

**Legal Description:** T20N R02W, Section 3-10

**RMU (if applicable):**

### **Management Goals:**

This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events. Therefore, the forest types are managed for early successional ecosystem types that favor grouse for the majority of the acres in the compartment.

In addition, the compartment has the North Branch of the Cedar River and its tributaries that are classified as trout streams. Therefore, along the riparian corridors forest management should be aimed at later successional ecosystem types that favor selective management to discourage beaver activity to protect trout habitat.

Lastly, there are two state forest campgrounds, Trout Lake and House Lake. In the immediate vicinity of these campgrounds, visual management needs to be taken into account because of the heavy public interface. Therefore, timber management should favor cover types that can be managed by selection or group selection to minimize the visual impact.

### **Soil and Topography:**

The main soil types are Chelsea associations and Rubicon associations. The terrain is a mix of flat to rolling hills. This topography is the result of a glacial activity. The slopes in the area range from mild <10% to steep >25%. Some of the hills have mild to moderated slope on most aspects except south aspects, which are often steep. In addition, because much of the terrain is influenced by glacier action, many of the stands have small ice contact depressions that result in areas of lowland brush or areas for vernal ponds.

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

The compartment is 8 solid sections of state ownership except for one-acre parcel in the southeast corner. The land use in the area is mainly residential. The town of Meridith is to the west of the compartment; a mix of smaller private ownership and sub-divisions to the south; some larger private ownerships to the west; and Mid-Forest Lodge Hunt Club to the north. The private land is mainly used for permanent residences with a few farms. Also among these private ownerships are some state ownership, compartment 1 to the west, compartment 25 to the south, and compartment 26 to the south and east.

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

There are records of spotted turtles using the lake and wetland in the compartment. The area is also used by bald eagles but no known nest sites are within the compartment boundaries.

### **Archeological, Historical, and Cultural Features**

There are no records of sites in the area and no sites were located during the OI process.

### **Special Management Designations or Considerations:**

This compartment is the Gladwin Field Dog Trail Area, and it hosts a number of local, state, and national dog trial events from early spring through late fall. The birds used for the trials are natural birds, this makes the area special for many other areas use hand raised birds. To keep the area producing natural birds the management of the area should favor aspen and early successional ecosystems that favor the birds. This should be done where the soils and current cover types allow.

### **Watershed and Fisheries Considerations:**

There are 3 lakes within the compartment boundaries, House, Trout, and Hoister Lakes. In addition, Rust Eaton Lake is on the northern boundary of the compartment and goes into Roscommon County. In addition, there is a trout stream with tributaries in the compartment (North Branch of the Cedar River). Along these river corridors should be managed to discourage aspen reproduction and to discourage beaver activity, which can degrade trout habitat.

### **Wildlife Habitat Considerations:**

“The Gladwin Field Trial Area (GFTA) is located in T20N, R2W, Sections 3 – 10 (within Gladwin County) and is a small component of the Gladwin Forest Management Unit.

In 1916, much of the above area now referred to as the GFTA was purchased as a public grouse field trial area. Since that time, field trialing has remained the priority use of this area. On September 20, 1957, the Conservation Commission, under authority of Act 82, as amended, established/dedicated the GFTA. At the same time, it was designated a special use zone within the state forest, then referred to as the Tittabawassee River State Forest. An approved management plan, developed in 1977, has been closely followed and implemented by two administering divisions, Wildlife and Forest, Mineral, and Fire Management.

Wildlife management, particularly grouse production, has remained the key value of the plan. Only hunting seasons or other activities that do not conflict with the primary intent of the area have been promoted and allowed in the GFTA. Off-road vehicles are not legal in the GFTA – only street licensed vehicles.

One of the truly unique characteristics of the area is that field trial events are conducted with native wild grouse – birds produced on-site that represent end products of the management plan. The GFTA remains highly regarded as one of the nation’s premiere field trial event locations”

Timber management should focus on the following priorities:

1. Maintenance of preferred grouse producing timber types.
2. Maximization of stem densities.
3. Dispersed forested age class distribution.
4. Bio-diversity considerations that parallel objectives of the GFTA (variable retention guidelines should be exempt for this area or significantly minimized).
5. All forested cover types should be evaluated for their potential as grouse management stands.

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

Surface sediments consist of ice-contact and glacial outwash sand and gravel, postglacial alluvium, coarse-textured till and an end moraine of coarse-textured till. The glacial drift thickness varies between 200 and 800 feet. Beneath the glacial drift are the Pennsylvanian Saginaw and Grand River Formations. The Saginaw Formation is used for clay/shale in other areas of the State. A gravel pit is located in Section 15 and there is good potential. This area has had limited oil and gas development. None of the compartment is currently leased.

### **Vehicle Access:**

The compartment has a well-developed road system with a main east west road that joins Joy Road, M-18, and Chapel Dam roads. In addition, several season roads are open most of the year for access except during spring break up. During this time, the roads are gated closed to protect the roads from vehicular damage. There are also several permanently gated roads. These are useable for management and fire suppression purposes. Overall, the access to the compartment is good.

## **Survey Needs:**

The north boundary has been surveyed and many of the monuments are in place. The south boundary has some surveying done, but there are some discrepancies between private and state surveys that need to get resolved. Currently no new surveys are needed.

## **Recreational Facilities and Opportunities:**

The compartment has 2 state forest campgrounds in it. House Lake Campground, which has 2 loops, and Trout Lake Campground that has 3 loops, for a total of 78 camp sites. In addition, a 2.7-mile hiking trail goes around Hoister and Trout Lakes. This pathway currently needs some work because beavers have dropped numerous trees across it. There is also a snowmobile trail in the west end of the compartment. This trail connects to the trail head on Meridith Grade. There is also a day use area at the north end of Hoister Lake which is often used for swimming.

This area is heavily used for fishing, swimming, berry picking, mushroom hunting, snowmobiling, and cross-country skiing. The area has been closed to ORVs since 1971, and gas motorized boats since 1993. Horse riding and mountain bikes have been restricted to a portion of section 3 since June of 2002. In addition, hunting is restricted to deer rifle season, late bow and muzzleloader. All other hunting is not allowed, but trapping of otter and beaver is allowed in the area.

## **Fire Protection:**

## **Additional Compartment Information:**

**\*\*\*\* Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

- 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 on the attached compartment maps:**

- Base feature information, stand numbers, cover types**
- Proposed treatments**
- Proposed road access system**
- Suggested potential old growth**



AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 24

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	2127													48													2175
S Black Spruce		47																									47
V Bog or Marsh			2																								2
C Cedar				184																							184
G Grass					51																						51
H Hemlock						5																					5
L LowInd Brush									22																		22
P LowInd Poplr										9																	9
N Marsh											35																35
Q Mx Swmp Cnfr												22															22
O Oak														1571													1571
R Red Pine	4														134												138
E Swamp Hrdwds																			33								33
U Upland Brush																							8				8
M Upland Hdwds	10																							319			329
Z Water																									93		93
W White Pine																										25	25
<b>Total</b>	<b>2141</b>	<b>47</b>	<b>2</b>	<b>184</b>	<b>51</b>	<b>5</b>			<b>22</b>	<b>9</b>	<b>35</b>	<b>22</b>		<b>1619</b>	<b>134</b>				<b>33</b>				<b>8</b>	<b>319</b>	<b>93</b>	<b>25</b>	<b>4749</b>

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: **24**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	35236 Cds	Hardwood	12729 Cds
Hardwood	5306 Mbf	Hardwood	1928 Mbf
Softwood	6634 Cds	Softwood	67 Cds
Softwood	495 Mbf	Sum CutVol	16652 Cds
Sum TotVol	53472 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	1046
	4749		

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
23	O9	39	81	70	oak	old growth (potential or actual)	shelterwood-seed	1		
comnts Fmd : The stand is mature and should be shelterwood harvested leaving 30-40 BA scattered on the hills and in groups in the draws. The BA could be 10-20 on the ridges and kept between 40-50 in the draws to break up the cold air drainages and minimize frost pockets. When harvesting leave all the conifers especially in the draws. Harvest the red maple heavily but leave some for diversity. The stand overall appears to be declining some what and there is diffiently a lack of aspen in the stand. The stand is expected to regenerate naturally to oak mixed with red maple. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
36	O9	40	75	65	oak	old growth (potential or actual)	shelterwood-seed	1		
comnts Fmd : The oak in the stand is showing some sign of decline. The terrain is rolling hills have some area of fairly steep slopes. Harvest the stand as a shelterwood-seed tree leaving around 40-50 BA of oak. The oak is to be left in clumps and some scattered trees. The clumps should be in the cold air drainages to minimize frost affect on young oak. The stand look like it will regenerate well because where there are natural opening there is an O3 understory. When harvesting try and keep some healthy trees from all species but favoring the retension of Red Oak. The stand should regenerate naturally. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
42	A6	48	39	75	aspen (upland)	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : The stand is mainly in a valley or draw around stand 43. There is a high concentration of maple along the east side. In the NE corner of the stand there is a pocket of white pine that may want to reserve for diversity. The rest of the stand should be harvest without retension for field trail use. The stand should regenerated naturally to a mix of aspen and maple. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
43	O6	11	102	72	oak	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : The stand is an oak knob. The west and south slopes are heavy to oak sawlogs and the east and north slopes the sawlogs have declined and now much of it is on the ground. Clearcut the stand with stand 42. The south slope of the stand is very steep so some care need to be use if it is able to be harvested. May want to paint it as a unit or paint the area out. If it is painted as a unit and proves to be inoperable it will be easier to buy it back. The stand should retenerate naturally to a mix of oak and aspen. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
48	A6	22	44	75	aspen (upland)	old growth (potential or actual)	final harvest	2	natural regeneration	
comnts Fmd : This stand is to be held till 2014 then cut with stand 257 after stands 256 and 258 have met green up standards. The stand is expected to regenerate to a well stocked aspen stand. The stand should be exempt from retension guidelines. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
79	O6	5	79	70	oak	old growth (potential or actual)	shelterwood-seed	1	natural regeneration	
comnts Fmd : The stand goes up in elevation from south to north. The stand line between stands 379 and 79 is somewhat subjective. This area could be harvested as a shelterwood retaining 30-40 BA favoring the retension of oak and conifers. Species 99/2 mix hardwood is a mix of white oak, paper birch, and red maple. The stand is expected to regenerate naturally to a mix of oak, aspen, and maple. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
81	M9	22	81	75	northern hardwood	old growth (potential or actual)	shelterwood-seed	1	natural regeneration	
comnts Fmd : The stand is a mix stand of a variety of species. The management of the stand should promote oak so shelterwood the stand down to 40-50 BA. Harvest as single selection and group selection to promote a mixed stand of oak, aspen, and maple. Leave all conifer to promote species diversity. This area should regenerate naturally a mix of species. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
84	M9	10	44	80	aspen (upland)	old growth (potential or actual)	final harvest	1		
comnts Fmd : The stand has a mature overstory over aspen. The area should be clearcut retaining some of the overstory oak and maple and decaying aspen for mast, dens and future wood debris. The residual should be kept between 5-15 BA favoring the retention of oak. The stand should regenerate to a mix of aspen, oak and maple. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
89	A6	9	91	56	aspen (upland)	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : The stand has a swale through the center that an E-Type and an old narrow gage RR along the west side. Stand could be harvested as a clearcut that may cause the swale not to regenerate well. The area is expected to regenerate to a medium stocked stand if not interplant Red Pine. In the swale may cut to 4"DBH to keep water pumps and may want to mark a few trees larger then 4" for retention. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
103	O9	7	87	75	oak	old growth (potential or actual)	shelterwood-prep	1	natural regeneration	
comnts Fmd : The stand is mainly a mix of red oak, white oak and maple. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
125	O6	55	89	64	oak	old growth (potential or actual)	shelterwood-seed	2	natural regeneration	
comnts Fmd : The south half of the stand had a dead oak salvage 3-2002 sale #005-02-02. The mortality in the N1/2 is about 10%. Overall it is fairly thick it could be have a shelter wood harvest leaving 30-40 BA. The trees to be left should be left in clumps and single trees with the clump being left in the cold air drains. The Mix oak in the stand is a mix of black, red and hybrids so it is a middle quality oak stand. When harvesting favor the retention of oak but do not eliminate any one species. Cut the stand to the top of the bank above the flood plain of the river and keep aspen that is within 150 feet of the river to minimize aspen regeneration that might attract beaver activity. This will also leave a narrow buffer of approximately 25' between stand 125 and 123. The stand should regenerate naturally to a mix of oak and maple. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
128	O5	39	64	62	oak	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : REMOVED DEAD OAK FROM EAST THIRD OF STAND 11-18-01. The stand has low quality oak so final harvest. It should regen to a medium stock oak. If the stand does not regenerate interplant jack pine. The stand because of health should be final harvested and retention guideline followed. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
130	A6	36	44	80	aspen (upland)	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : The stand goes from thick aspen in the north end of the stand and grades to oak toward the south end. The stand was approved to be clearcut at the 2008 compartment review. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
161	A6	39	89	65	oak	old growth (potential or actual)	shelterwood-seed	1		
comnts Fmd : The aspen in the stand is greater in the north end then the south end. It is fairly dense and the aspen needs to be harvested. So remove the aspen and reduce the BA of the stand to 30-40. Also because of the stand is not uniform in density or in covertype there are area that will need to have the oak marked to be removed and areas where the aspen may need to be marked to keep to maintain the desired BA. When harvesting the stand leave the strip of trees between the distribution powerline and M-18. The stand is expected to regenerate to a mix of aspen and oak. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
166	O9	42	79	71	oak	old growth (potential or actual)	shelterwood-seed	1	natural regeneration	stand with fdf potential
comnts Fmd : The diameter and density decreases from south to north. The area should be shelterwood to start some regeneration. Thin the stand down to 70 BA and it should regenerate naturally. In the stand the mortality in the oak increases going from south to north. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
168	O6	70	79	60	oak	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : The stand is smaller in diameter than stand 166 and the quality of oak is lower. The cover type is mostly black and white oak but the aspen increases going from east to west. The area should be final harvested. The stand should regenerated to a medium stocked oak stand if not interplant with red pine. Retension guidelines should be followed at minimal levels because the area is part of the field trail area. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
170	A6	31	49	78	aspen (upland)	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : The stand should be final harvested to regenerate aspen now. There is a heavier component of oak especially along stand 169. This area is expected to regenerate to a aspen stand mixed with some oak and maple. Because of the field trial use the stand should be exempt from retension guidelines. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
172	O6	41	84	58	oak	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : The stand is overmature and it is coming down.. There is coarse woody material everywhere. The oak is declining very quickly and needs to have a 4" clear cut done. May want to mark some species of larger size to be retained for diversity, seed source, and mast. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
179	A6	22	39	70	aspen (upland)	old growth (potential or actual)	final harvest	2	natural regeneration	
comnts Fmd : The stand is undulating. It is heavy to aspen but has pockets of oak in it. The soil under the stand is Rubicon. Final harvest stand with out retension for field trial use. The stand should regenerate well to aspen. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
183	M9	46	84	65	northern hardwood	old growth (potential or actual)	selection	2	natural regeneration	
comnts Fmd : This stand has the west loop of trout lake campground in it. It could be thinned removing some of the overstory retaining 70 BA of mixed species. When setting up the sale leave a 3 chain buffer around the campground. Also leave den trees and some of the dying trees for future woody debris, as well as good mast trees. The stand is expected to regenerate naturally to a mix of species. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
192	O6	40	84	59	oak	old growth (potential or actual)	seed tree	1	natural regeneration	
comnts Fmd : There is a lot of wood down on the ground. The oak in the stand is not high quality and is mainly white oak. It looks like it should be harvest as a seed tree with reserve leaving 10-20 BA of the best oak in place for mast. The aspen in the stand is concentrated along the southwest and west edges of the stand. The area is expected to regenerate to a mix of maple and oak mainly with some aspen. If it does not regenerate interplant with red pine. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
194	O9	20	89	63	oak	old growth (potential or actual)	shelterwood-seed	1	natural regeneration	
comnts Fmd : The stand has areas of high oak mortality and areas high in aspen that need to be treated but visual is a concern. The stand is in between two younger final harvest and it is on a ridge visible from Joy road. So harvest the stand retaining 30-40 BA of oak removing all the aspen. The aspen in the stand appears to have a low percentage of soundness so much of it is pulp. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
207	O9	42	92	60	oak	old growth (potential or actual)	shelterwood-seed	1		
comnts Fmd : The stand has a lot of old white pine stumps in it and it looks like the area has had some salvage in the past. The stand has some opening in it that have good regeneration. Also the aspen and maple in the stand increases going west. The stand should be shelter wooded retaining 40-50 BA and it would be expected to regenerate to a mix of oak and aspen. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
213	O9	23	84	61	oak	old growth (potential or actual)	shelterwood-seed	1	natural regeneration	
comnts Fmd : The stand is a fairly dense oak stand that has some good quality red oak in it. Thin the stand to 70 BA. The terrain is fairly flat in the stand so it should be operable even if the density is kept a little high. It is expected to regenerate with oak. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
226	O6	16	84	65	oak	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : The stand has pockets of aspen in it and the oak is for the most part is healthy but there is a noticeable increase in mortality going from south to north. The oak in the stand is moderate quality in the northern 2/3 and the south 1/3 it is good. Harvest the stand as a final harvest with retention of 1-2 oak per acre for mast. The stand should regenerate to a mix of maple and oak with pockets of aspen. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
228	A9	6	74	71	aspen (upland)	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : The stand should be final harvested without retention for field trail use. The stand is expected to regenerate to a mix of aspen, oak and maple. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
229	O6	33	72	66	oak	old growth (potential or actual)	final harvest	1		
comnts Fmd : There are some aspen pockets in the stand but it is an oak stand for the most part. The stand should be final harvested with out reserves and it is expected to regenerate as an oak stand mixed with aspen and maple. If not interplant red pine. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
233	O9	17	84	80	oak	old growth (potential or actual)	shelterwood-seed	1	natural regeneration	
comnts Fmd : The stand has some mortality and the soundness is lower than average. The stand could be shelter wooded retaining 50-70 BA leaving the trees between M-18 and the distribution powerline. The stand is expected to regenerate as a oak mixed with maple. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
253	A6	46	39	75	aspen (upland)	old growth (potential or actual)	final harvest	2	natural regeneration	
comnts Fmd : The stand is a nice aspen stand and is scheduled to be cut in 2014 after stand 43 has met green up requirements. The stand is expected to regenerate as a well stocked aspen stand and because of the field trail area should be exempt from the retention guidelines. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
256	A6	32	44	75	aspen (upland)	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : This stand is part of stand 48 that was agreed upon at the Dec. 15, 2006 review to be cut early as a 2" clearcut without reserve. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 24**

**Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>257</b>	<b>A6</b>	32	44	75	aspen (upland)	old growth (potential or actual)	final harvest	2	natural regeneration	
comnts Fmd : This stand is part of stand 48 that is to be cut in 2014 if after stand 256 and 258 meet greenup requirements. The stand is expected to regenerate as a well stock aspen stand. Because of the field trail area this stand should be exempt from the retention guidelines. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
<b>258</b>	<b>A6</b>	29	44	75	aspen (upland)	old growth (potential or actual)	final harvest	1	natural regeneration	
comnts Fmd : The topography is somewhat undulating. The harvest is to be a 2" clearcut with no reserve as agreed upon at the compartment review Dec. 15, 2006. This stand is part of stand 48 that is to be cut. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
<b>269</b>	<b>A6</b>	44	44	80	aspen (upland)	old growth (potential or actual)	final harvest	2	natural regeneration	
comnts Fmd : The stand goes from thick aspen in the north end of the stand and grades to oak toward the south end. Hold the stand till 2014 then final harvest if stand 130 meet green up requirements. The stand is expected to regenerate to a well stocked aspen stand. This area is part of the field trial area and should be exempt for retention guidelines. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
<b>274</b>	<b>A6</b>	9	89	65	oak	old growth (potential or actual)	shelterwood-seed	1		
comnts Fmd : The stand is a mix of oak and aspen. The aspen needs to be harvested and the stand need to be shelter wooded. When marking the stand retain 40-50 BA favoring the retention of oak and the removal of aspen. There is a narrow strip along M-18 and a distribution powerline that should be left. The area is expected to regenerate to a mixture of oak mixed with some aspen. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
<b>281</b>	<b>O9</b>	23	84	80	oak	old growth (potential or actual)	shelterwood-seed	1	natural regeneration	
comnts Fmd : the stand is an oak stand on rolling terrain. It is very similar to stand 233 and should be shelter wood retaining between 40-50. The site is high quality oak site. The stand is expected to regenerate natural to a mixed oak maple stand. This area was established under act 82 as the Gladwin Field Dog Trail Area and as such, it is an HCVA. The management of this area is to maximize Ruffed Grouse habitat to maintain a strong population of natural birds for dog trial events										
<b>Total Acres.....</b>		<b>1046</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 24**

**Entry Year: 2009**

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

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**Total Acres..... 0**

