



**FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT #144 ENTRY YEAR: 2007**

**Compartment Acreage: 1921 County: Iosco**

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**Revision Date:** February 2005: May 2005: July 12, 2005, August 19, 2005

**Stand Examiner:** Steven Nyhoff

**Legal Description:** T21N R6E, Sections 12 & 13  
T21N R7E, Sections 7 & 18

**RMU (if applicable):** None

**Management Goals:**

This compartment has a mix of early and late secessional ecosystems. The early secessional ecosystems are aspen and the later ones are mixed stands of red and white pine and also swamp hardwoods. Try to maintain the current cover types and ecosystems mix.

Much of the compartment is difficult to access because of the extensive wetlands systems that are in the compartment. Some of these areas have good aspen and should be maintained as aspen, but to do this they may need to be habitat cut.

**Soil and Topography:**

The soils in the compartment are a mix of well drained Proper Sand, somewhat poorly drained McIvor Sand, and very poorly drained Wabun Muck. This combination of soils leads to a compartment that has access problems. It also makes the topography complex in the compartment with ridges, large areas of hummocky ground, and broad wet basins.

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

The compartment is situated in the northeast corner of a block of state land. The state ownership is fairly contiguous. The private land in the area is used for a mixture of permanent and seasonal residences, as well as, hunting properties. This compartment is about 3 miles away from Saginaw Bay, which has many fulltime and seasonal homes on small lots.

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

The state land of this compartment is a complex mix of drainages and large wetlands with island of trees. There is also a lot of beaver activity on the various streams and creeks making a large number of open ponds throughout the compartment.

During the Operational Inventory process a possible Osprey nest was located. Also there are records of Wood Turtles to the south and west; and an Eagle to the southeast.

**Archeological, Historical, and Cultural Features**

None known or located during the OI process.

**Special Management Designations or Considerations:**

None

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

Saddler Creek flows through the northwest end of the compartment. Associated with this creek are large areas of lowland brush and marshes. Also there are several drainages that also flow through the compartment; most of these are shallow, mud bottom creeks, so the fisheries are not a major concern.

### **Wildlife Habitat Considerations:**

Compartment 144 consists of 1,921 acres. Aspen acreage (cover types) comprises 16.5 % of the entire compartment area. Swamp Hardwoods make up 31 %. Deer, grouse and woodcock are aggressively targeted by hunters. The aspen type/acreage totals should be managed to prevent additional advancement of the White Pine timber type. From a wildlife perspective, wet lowland E types minimize the occurrence of excessive access – animals have excellent escape cover (safe zones).

Cover types vary considerably, which functions to provide habitat availability to numerous wildlife species.

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

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum. A gypsum quarry is located two miles to the northwest. Gravel pits are not located in the area and potential appears to be limited. The National City Field is located two miles to the west of the Compartment. The field produces gas from the Prairie du Chien. The compartment is not currently leased for oil and gas exploration.

### **Vehicle Access:**

The access to the compartment is limited because of the many drainages and wetlands. There is some access to the compartment off Alabaster Road and off Sand Lake Road through compartment 143.

Along the north side of the compartment runs the Detroit and Mackinaw Rail Road line. This rail is still active and also poses some access problems.

### **Survey Needs:**

Some surveys were done along Sand Lake Road in compartment 143 and there has been some done for Alabaster Road. At the current time there is no strong need for survey.

### **Recreational Facilities and Opportunities:**

There are no established recreation facilities in the compartment. The area is mainly used for hunting. There is some illegal activity with 4x4s and ORVs that use stand 12 as a scramble area. The trails that do exist in the compartment are heavily used to access the compartment, but many do not go deep into the area because of wetlands and beaver activity.

### **Fire Protection:**

Much of the compartment is inaccessible to fire suppression equipment because of the numerous drains and low wet stands. However, much of the timber types in the stand are not composed of explosive cover types and many natural fuel breaks occur in the compartment. However, because of the inaccessibility, if a fire does get started it would take some time to get fire suppression equipment in to the fire.

This site is very isolated in Iosco County. There is a Railroad Line in the northern end that could lead to possible fire ignitions. The only county road frontage to the compartment is along the south edge (Alabaster Road). Access into the interior is limited to only one marginal two-track. There are isolate stands of pine scattered throughout the compartment but a high percentage is lowland brush, standing water, and several flowing streams. This would possess fire suppression problems.

Initial wildland fire suppression for this compartment is done by the U.S. Forest Service out of Oscoda. This is done through a mutual aid agreement formed in 1986 that was updated in 1990 between the U.S. Forest Service and the State of Michigan.

### **Additional Compartment Information:**

Because of the poor access, there are many stands that are now over mature that need to be treated but cannot be done easily. These stands need to be cut to maintain the current cover types, if not cut they will eventually convert to pine and red maple. There may now be enough timber available that we will be able to get a logger interested in building the road that will be needed to harvest the timber.

Also, along the north edge of the compartment a major electric transmission line is present.

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

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

IOSCO COUNTY

COMPARTMENT: 144

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		63			58			65	80	50									316
Grass	7																		7
Lowlnd Brush	470																		470
Marsh	82																		82
Red Pine						19	44	22	16		24				20				145
Swamp Hrdwds					26	17		61	104	340								48	596
Upland Hdwds										19									19
Water	39																		39
White Pine		14	9	14	98	34			33		14		9		13			9	247
Total	598	77	9	14	182	70	44	148	233	409	38		9		33			57	1921

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

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

IOSCO COUNTY

COMPARTMENT: 144

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	316																										316
G Grass					7																						7
L LowInd Brush									470																		470
N Marsh											82																82
R Red Pine																121										24	145
E Swamp Hrdwds																				582						14	596
M Upland Hdwds	19																										19
Z Water																									39		39
W White Pine							10																			237	247
<b>Total</b>	<b>335</b>				<b>7</b>		<b>10</b>		<b>470</b>		<b>82</b>					<b>121</b>				<b>582</b>					<b>39</b>	<b>275</b>	<b>1921</b>

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

IOSCO COUNTY

COMPARTMENT: **144**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8779 Cds	Hardwood	4332 Cds
Hardwood	775 Mbf	Hardwood	379 Mbf
Softwood	2461 Cds	Softwood	247 Cds
Softwood	1185 Mbf	Softwood	412 Mbf
Sum TotVol	15160 Cds	Sum CutVol	6161 Cds
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	452
1921			

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 144 Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
1	E6	14	78	55	white pine	mature	shelterwood-seed	2	natural regeneration	
comnts Fmd : the stand is hummocky but not too wet. The stand could have the hardwoods removed converting the stand to a pine stand. The soil under the stand is McIvor Sand.										
4	W6	9		55	white pine	unevenaged	shelterwood-seed	2	natural regeneration	
comnts Fmd : The stand has smaller tree in the west end being poles mainly going to saw log in the east end. The soils under the stand also change from McIvor Sand to Crosswell-Proper Sand association. The area of larger diameter trees is mainly in the north east corner of the stand. Harvest by removing hardwood and thin down the areas of thick pine to 80 to 90 BA. To maintain the BA of 80 to 90 some hardwood may need to be maintained this is acceptable.										
7	W1	10	7	53	jack pine	sparse		0	direct seeding	
comnts Fmd : This stand was harvested and did not regenerate well. The stand is currently a W1 with only a little aspen and red maple scattered in it. The soil under the stand is McIvor Sand. The stand need to be interplanted with jack pine because of the moist soils to bring it up to full stocking.										
23	A6	46	75	65	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : The stand has a trail along the west side of the stand that is mainly a ORV trail. It is a mix of low ridges and wet swales and needs to be harvested. May want to clearcut leaving everything less than 4" DBH to keep the water pumped down. The aspen is not the best quality and is mainly chipper wood. Retaining the trees less than 4 inches DBH may in the long run convert the stand to swamp hardwood which would be acceptable. The soil under the stand is Proper Sand. Access to the stand will be difficult because of drainages in the compartment.										
24	A6	23	85	50	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : The stand need to be harvested but access will be difficult. The stand is poor quality aspen that has a lot of rot. Regeneration is a concern because of poor tree vigor will need to harvest the stand in the dormancy peiord. The stand may regenerate as a oak stand after harvest which would be acceptable. If natural regeneration fails the stand would have to be planted or interplanted to pine red or jack with red being preferred.										
28	E6	38	75	65	swamp hardwoods	mature	final harvest	2	natural regeneration	
comnts Fmd : The stand is humocky with lots of standing water in swales between the dryer ridges of pine and aspen. It is in sorry shape and need to be harvested. Access to the stand is restrictive and because of the wet drainages and wet soil. Access may be able to be gotten from the private to the east. That property owner has havarested his property. May want to use a 4" clearcut to keep the water pumped down. The stand is expected to regenerate as a swamp hardwood stand, but in harvesting the stand it may convert to an aspen stand which would be acceptable. The soil under the stand is McIvor Sand.										
32	R9	24	90	55	white pine	two aged	final harvest	2	natural regeneration	
comnts Fmd : The stand is a two aged stand of pine over maple and aspen. The ground is hummocky with ridges of pine and draws of L-Type to E5/L. the stand needs to be harvested to 4" clearcut. The pine in the stand is very limby and the aspen is in poor shape. The aspen in the stand will probably not hold another 10 years. The stand is expected to become a mixed stand of aspen, red maple and pine any combination of species is acceptable. The soil under the stand is McIvor Sand.										
36	E6	40	85	60	swamp hardwoods	immature	final harvest	2	natural regeneration	
comnts Fmd : This stand is a mix of aspen ridges and swamp hardwood draws. It could be harvested as a 4"-6" spec clearcut. This may be needed because of the high water table in the area. The soil under the stand is McIvor Sand. The aspen in the stand is in really poor shape and will probably not hold 10 years. The stand is expected to remain a swamp hardwood stand.										
37	W9	23	70	63	white pine	mature	selection	2	natural regeneration	
comnts Fmd : This stand could be harvested by removing all the hardwood and marking some of the pine to retain 70-80 BA of pine. This stand is variable with pockets of thick white pine and some areas have more hardwoods. The ground is hummocky and the ground cover is a mix of blueberry, braken fern, sheep laural, and juneberry. In harvesting the hardwood some areas may have less than 70 BA and this is acceptable. The soil under the stand is Proper Sand.										
39	A6	26	75	65	aspen (upland)	immature	final harvest	1	natural regeneration	
comnts Fmd : The stand looks a lot like stand 24 but there is a greater precent of red maple and birch in this stand. The ground in hummocky. There is a good layer of white pine regeneration in the stand, and the access to the stand will be difficult. Harvest the stand as a 4" clearcut to regenerate the stand. The natural regeneration should be a mix of aspen, red maple and other swamp hardwoods any combination of these species is acceptable. The soil under the stand is Proper Sand.										
44	A6	11	58	46	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : The stand is overmature and needs to be harvested. The access to the stand is a problem because of the rail road tracks and the wet drainages. Most of the aspen is in poor shape and has significant rot. The stand also has lots of downed wood that should be preserved if the stand can be harvested. The soil under the stand is Proper Sand.										
45	E6	39	58	50	swamp hardwoods	mature	final harvest	1	natural regeneration	
comnts Fmd : This stand is on the soil type of Proper Sand. The area is hummocky with many depressions, most of which hold water. The stand needs to be harvested but access will be difficult and will probably have to come from compartment 143. The stand is a mix of red maple, aspen, other swamp hardwood, and some pine. This mixed stated is what is expected from the natural regeneration and any combination of species is acceptable.										

**GLADWIN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

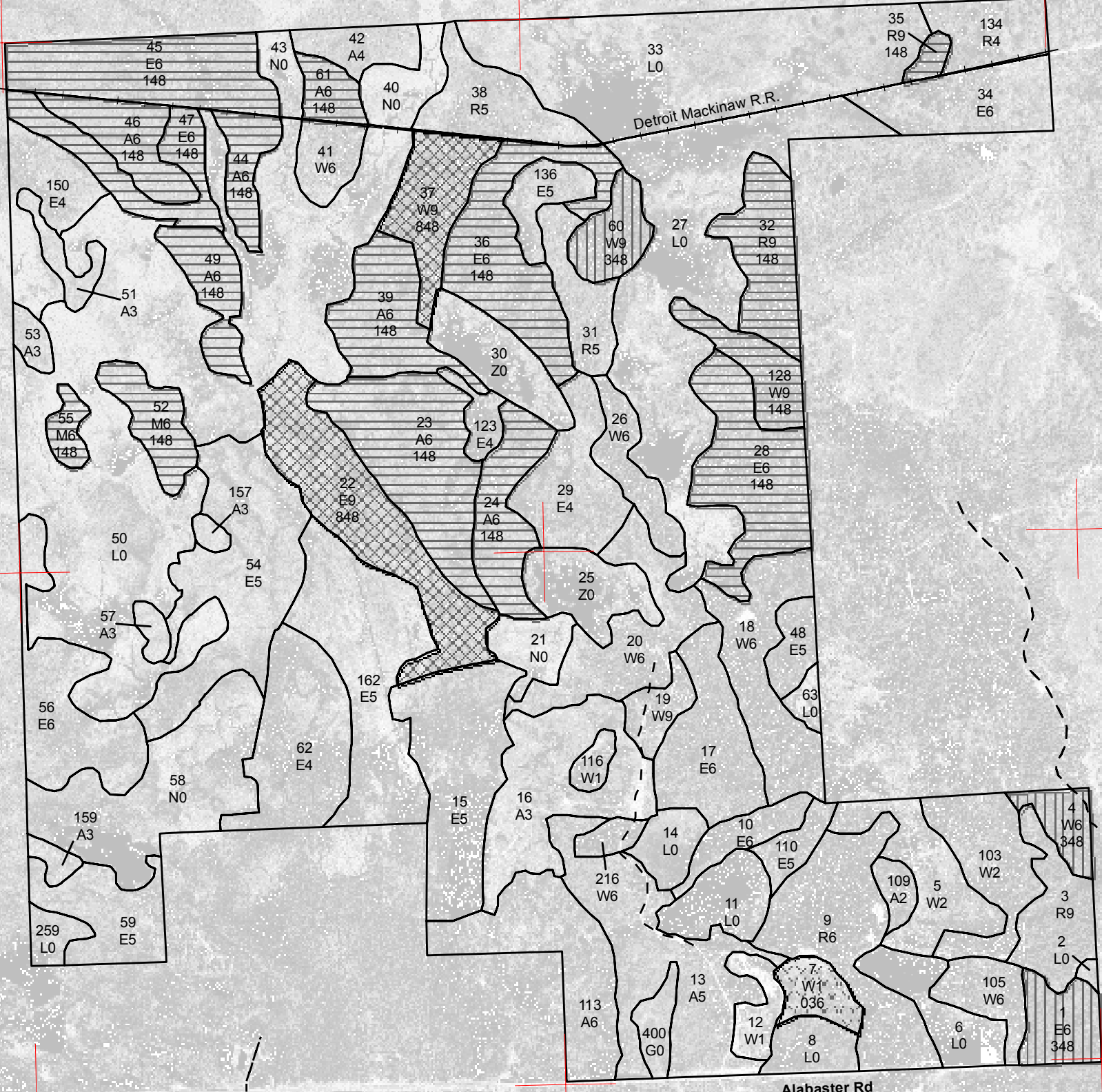
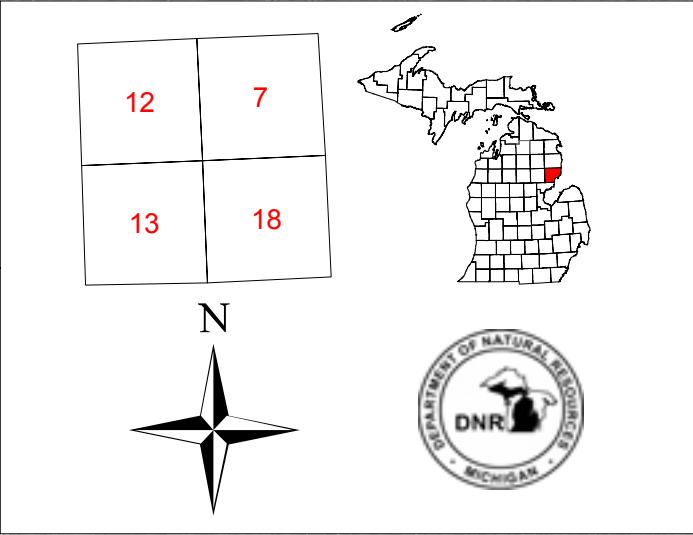
**Compartment: 144**    **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
<b>46</b>	<b>A6</b>	17	58	60	aspen (upland)	mature	final harvest	1	natural regeneration		
<p>comnts Fmd : The stand is a low ridge of Proper Sand. The stand is mature and needs to be harvested. The birch and aspen in the stand are in poor shape. Access will be difficult and will probably have to come from compartment 143. The aspen is expected to come back as an aspen stand but it will be mixed with swamp hardwood. As the stand regenerate there may be pockets that are dominated by swamp hardwood which will be acceptable.</p>											
<b>47</b>	<b>E6</b>	21	85	60	swamp hardwoods	mature	final harvest	2	natural regeneration		
<p>comnts Fmd : The stand lays along the edge of 2 soil types (Proper Sand and Wabun Muck). The stand needs to be harvested but should be cut to a 4" spec on the clear cut to allow for some trees to be left to act a water pumps. The stand has a lot of blown down trees. The stand is expected to stay a swamp hardwood site.</p>											
<b>49</b>	<b>A6</b>	16	85	60	aspen (upland)	high risk	final harvest	1	natural regeneration		
<p>comnts Fmd : This stand is on a ridge and is overmature and needs to be harvested. The is no good access to the stand. The access will probable have to come from compartment 143. The stand is expected to regerated as an aspen stand but may convert to a swamp hardwood stand because the understory is mainly upland red maple. This conversion would be acceptable. The soil under the stand is Proper Sand.</p>											
<b>61</b>	<b>A6</b>	8	75	60	aspen (upland)	mature	final harvest	2	natural regeneration		
<p>comnts Fmd : The stand is hummocky and is a mix of pine, swamp hardwood and trembling aspen. Access to the stand will be difficult. The soil under the stand is Proper Sand.</p>											
<b>128</b>	<b>W9</b>	14	90	60	white pine	mature	final harvest	1	natural regeneration		
<p>comnts Fmd : This stand is on a ridge that come from the private land to the east. The access to the stand is limited and will need to be from the privated land more then likely. The stand should be clearcut to a 4" spec.</p>											
<b>Total Acres.....</b>		<b>379</b>									

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
<b>22</b>	<b>E9</b>	48		62	swamp hardwoods	unevenaged	selection	3	natural regeneration		
TREATMENT LIMITING FACTORS: Too wet											
comnts Fmd : This stand is variable there are areas of dry ridges but also larger wet depressions. The trees are very large in diameter and many have cavities. The trees have large fluted butts and a shallow root system. There is a lot of blow down in the stand. It is wetter in the north end and dries out toward the south. The only harvest that could be done would be to make regeneration opening. The opening would have to be small < 60' diameter and have 1 to 2 opening per acre. Also Saddler Creek flows along part of the west side of the stand and it has a defined bed and bank. It is only about 6-12" below the grade of the stand. The soil under the stand is McIvor-Wakeley. The stand could be harvested or left for biodiversity and as a wildlife corridor.											
<b>35</b>	<b>R9</b>	3	47	65	red pine	mature	final harvest	3	natural regeneration		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle											
comnts Fmd : This stand is a pocket of red pine that needs to be harvested but has very limited access because of rail road and wet drainages. The soil under the stand is McIvor Sand.											
<b>52</b>	<b>M6</b>	14	85	60	aspen (upland)	mature	final harvest	1	natural regeneration		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle											
comnts Fmd : This stand is an island in an extensive wetland with no way to access the stand except on foot. The stand need to be habitat cut. The M-Type in the stand is mainly upland red maple and the soil under the stand is Proper Sand.											
<b>55</b>	<b>M6</b>	5	85	60	aspen (upland)	mature	final harvest	1	natural regeneration		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle											
comnts Fmd : This stand is an island in an extensive wetland with no way to access the stand except on foot. The stand need to be habitat cut. The M-Type in the stand is mainly upland red maple and the soil under the stand is Proper Sand.											
<b>60</b>	<b>W9</b>	13	128	60	white pine	mature	shelterwood-seed	2	natural regeneration		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle											
comnts Fmd : The stand is at the end of a ridge that goes along stand 27. The soil under the ridge is Proper Sand. The trees in the stand are fairly large but some what sparse. The stand is thick and should be seed tree harvested leaving 10-20 BA of Pine.											
<b>Total Acres.....</b>		<b>83</b>									

# Field Map

Compartment 144  
 T21N, R6E, Sec. 12, 13  
 T21N, R7E, Sec. 7, 18  
 County: Iosco  
 Unit: Gladwin  
 YOE: 2007  
 Acres: 1,921 GIS Calculated  
 Stand Examiner: Steve Nyhoff  
 Map Revised: 8/23/2005  
 Map Phase: Pre-review



**Legend**

- Miris Corners
- - Poor Dirt Roads
- + Railroads
- Stand Boundary
- ▤ 036 - Direct Seeding
- ▥ 148 - Final Harvest/Natural Regeneration/Other
- ▧ 348 - Shelterwood-seed/Natural Regeneration/Other
- ▨ 848 - Selection/Natural Regeneration/Other

**Name** County Paved Roads

