



**GAYLORD FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT: 206**

**ENTRY YEAR: 2009**  
**Compartment Acreage: 1,882**  
**County: Cheboygan**

---

**Revision Date:** April 13, 2007

**Stand Examiner:** Ken Phillips

**Legal Description:** T35N - R01E Sections 5, 8 and 17.

**Management Goals:** To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

**Soil and Topography:** With the exception of the slopes which lead down to the river corridor, this compartment is quite flat. On the east side the transition from uplands to the lowlands along the river is very steep and abrupt. On the west side of the river this transition is more subtle often stepping down in elevation across a series of gradual ridges. Soils on the uplands are generally excessively drained sands while those within the river corridor are poorly drained mucks.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** With the exception of a 40 acre privately owned parcel in the northeast corner of Section 5, this compartment is entirely State-owned land. The lands within and surrounding the compartment are primarily used for dispersed recreation.

**Unique, Natural Features:** Stand #39 is a unique stand for this geographic area. It contains many large diameter white pine which surround a very small lowland bog.

**Archeological, Historical, and Cultural Features:** None were identified.

**Special Management Designations or Considerations:** Several stands along the banks of the Black River were previously designated as stand condition "8". Past disturbances to this flood plain area have been limited due to the steep ridges that lead down from the uplands to the river valley. This stretch of river is also unique due to its importance as a prime spawning area for Lake Sturgeon.

**Watershed and Fisheries Considerations:** This compartment is in the Black River watershed, and contains a portion of the Upper Black River, below Kleber Dam. This area is important lake sturgeon spawning habitat, and is frequently used by researchers, volunteers protecting the sturgeon from poachers, and general public learning about this threatened species. As a result, this area receives a lot of use, and unfortunately, is prone to erosion. A group is currently seeking funding to address these erosion concerns. For the compartment prescriptions, a narrow buffer should be left at the top of the bluff to prevent erosion, particularly in stands 44 and 65. Also, road closures would be appropriate for safety and erosion prevention. Access should remain, however, so that researchers and volunteers have access to monitoring sites.

**Wildlife Habitat Considerations:** This compartment consists of a large lowland area along the Black River and upland areas consisting mostly of oak, aspen and red pine. The swamp area along the river is used by bear, deer, otter, and numerous amphibians. The upland area has numerous age classes of aspen and oak. Stand 65 will be treated to regenerate oak and islands will be left to maintain mast production. Stands 38 and 44 will be cut to maintain early successional habitat for deer, grouse, turkey and woodcock. Stands 30, 34, 21 and 15 will be cut next year of entry to maintain some age class diversity. Fir will be left in stand 71 and cut at a later date to provide horizontal cover for snowshoe hare.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel and dune sand. The glacial drift thickness varies between 50 and 200 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is used for stone and cement products. Afton Quarry is located eight miles to the west. Gravel pits are located in the area, and there is potential. The nearest oil and gas production, the Niagaran reef play, is located 12 miles to the south. The Antrim Shale is absent in this area and there is no known oil and gas potential.

**Vehicle Access:** Most upland portions of this compartment are easily accessible via numerous roads that parallel the river corridor on both the east and west sides. Two segments of trail roads on the east side of the river have been recommended for closure in an effort to reduce the access to the river along this important stretch of Lake Sturgeon spawning grounds. These suggested closures will be discussed during the compartment review process.

**Survey Needs:** It is possible that the 40 acre privately owned parcel in Section 5 will need to be surveyed if no nearby existing control corners can be identified.

**Recreational Facilities and Opportunities:** The Red Bridge motorcycle trail, the Midland–Mackinac hiking trail and the Alpena-Mackinac rail/trail are all found within this compartment.

**Fire Protection:** Most of the cover types that occupy the upland portions of this compartment are all highly volatile and could pose severe control challenges. Many of these stands have been harvested in the past, however, which has reduced the immediate threat.

**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 potential old growth**

5/4/2007 11:35:52 AM

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

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: 206

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		94	71	30	4	12		86	69	30									396
Black Spruce										36									36
Cedar										42									42
Grass	4																		4
Jack Pine		39		62					22										123
LowInd Brush	4																		4
LowInd Poplr			9		2					14									25
Mx Swmp Cnfr										283									283
Oak					40			47	215	55									357
Red Pine							34	143	65										242
Swamp Hrdwds													238						238
Upland Brush	4																		4
Water	56																		56
White Pine									47	25									72
<b>Total</b>	<b>68</b>	<b>133</b>	<b>80</b>	<b>92</b>	<b>46</b>	<b>12</b>	<b>34</b>	<b>276</b>	<b>418</b>	<b>485</b>			<b>238</b>						<b>1882</b>

5/4/2007 11:36:07 AM

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

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: 206

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	396																										396
S Black Spruce		36																									36
C Cedar				42																							42
G Grass					4																						4
J Jack Pine							110												13								123
L LowInd Brush									4																		4
P LowInd Poplr										25																	25
Q Mx Swmp Cnfr												283															283
O Oak	70													287													357
R Red Pine															242												242
E Swamp Hrdwds																			238								238
U Upland Brush																							4				4
Z Water																									56		56
W White Pine																										72	72
<b>Total</b>	<b>466</b>	<b>36</b>		<b>42</b>	<b>4</b>		<b>110</b>		<b>4</b>	<b>25</b>		<b>283</b>		<b>287</b>	<b>242</b>				<b>13</b>	<b>238</b>			<b>4</b>		<b>56</b>	<b>72</b>	<b>1882</b>

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: **206**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	12487 Cds	Hardwood	3662 Cds
Hardwood	23 Mbf	Softwood	809 Cds
Softwood	9881 Cds	Sum CutVol	4471 Cds
Softwood	1079 Mbf		
Sum TotVol	24572 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	
1882		234	

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
2	J6	9	74	45	spruce-fir (uplands-including upland black spruce)	mature	final harvest	2		
comnts Fmd : DENSE STAND OF LARGE DIAMETER JACK PINE. HARVEST WHEN THE ADJOINING ASPEN IS CUT. RECOMMEND PROTECTING THE FIR UNDERSTORY AND ALLOWING THIS TO CONVERT TO FIR. SOME ASPEN AND RED MAPLE REGENERATION MIGHT ALSO OCCUR FOLLOWING THE HARVEST ESPECIALLY ALONG THE EDGE WITH STAND #7. NO NEED TO LEAVE ANY RETENTION SINCE THE STAND IS SO SMALL. RETENTION ISLANDS WILL BE LEFT IN THE ADJOINING ASPEN STAND.										
3	J6	3	74	45	spruce-fir (uplands-including upland black spruce)	mature	final harvest	2		
comnts Fmd : DENSE STAND OF LARGE DIAMETER JACK PINE. HARVEST WHEN THE ADJOINING ASPEN IS CUT. RECOMMEND PROTECTING THE FIR UNDERSTORY AND ALLOWING THIS TO CONVERT TO FIR. SOME ASPEN AND RED MAPLE REGENERATION MIGHT ALSO OCCUR FOLLOWING THE HARVEST ESPECIALLY ALONG THE EDGE WITH STAND #7. NO NEED TO LEAVE ANY RETENTION SINCE THE STAND IS SO SMALL. RETENTION ISLANDS WILL BE LEFT IN THE ADJOINING ASPEN STAND.										
4	J6	1	74	45	spruce-fir (uplands-including upland black spruce)	mature	final harvest	2		
comnts Fmd : DENSE STAND OF LARGE DIAMETER JACK PINE. HARVEST WHEN THE ADJOINING ASPEN IS CUT. THERE IS NOT AS MUCH FIR IN THE UNDERSTORY OF THIS STAND AS COMPARED TO STANDS #2 AND #3 BUT I WOULD STILL RECOMMEND PROTECTING THE FIR UNDERSTORY. SOME ASPEN AND RED MAPLE REGENERATION MIGHT ALSO OCCUR FOLLOWING THE HARVEST ESPECIALLY ALONG THE EDGE WITH STAND #7. NO NEED TO LEAVE ANY RETENTION SINCE THE STAND IS SO SMALL. RETENTION ISLANDS WILL BE LEFT IN THE ADJOINING ASPEN STAND.										
7	A6	46	77	50	aspen (upland)	mature	final harvest	2		
comnts Fmd : THIS STAND IS HIGHLY VARIABLE. SOME AREAS OF SMALLER DIAMETER TIMBER EXIST ESPECIALLY TOWARDS THE SOUTH END WHERE SOME MATERIAL WAS APPARENTLY REMOVED IN 1978. THERE ARE OTHER AREAS, HOWEVER, OF REALLY NICE QUALITY MATURE TIMBER. THE STAND WAS PRESCRIBED TO BE CUT LAST Y.O.E. BUT IT NEVER WAS PUT UP. RECOMMEND HARVESTING THE ENTIRE AREA TO RE-ESTABLISH A SINGLE AGE CLASS. RETENTION ISLANDS SHOULD BE LEFT. SOME OF THESE LEAVE AREAS SHOULD INCLUDE CONIFERS AS WELL AS ASPEN FOR BIO-DIVERSITY.										
10	A6	9	77	50	aspen (upland)	mature	final harvest	2		
comnts Fmd : TREAT ALONG WITH STAND #7. A LOW LYING AREA SOUTH OF STAND #9 SHOULD BE LEFT AS A RETENTION AREA. THIS WETTER AREA WAS TOO SMALL TO MAP BUT IT IS DISTICTLY DIFFERENT FROM THE ADJACENT STANDS. THE FIR UNDERSTORY IS QUITE THICK IN THE PRIMARY STAND BUT I SEE NO REASON TO PROTECT IT. INSTEAD I WOULD PREFER TO ENCOURAGE ASPEN REGENERATION AS MUCH AS POSSIBLE BUT REALIZING THAT FIR WILL UNDOUBTABLY MAKE UP A PORTION OF THE REGENERATION AS WILL RED MAPLE AND WHITE BIRCH.										
38	A6	24	64	50	aspen (upland)	mature	final harvest	1		
comnts Fmd : THIS IS A LOW QUALITY SITE BUT IF CUT ASPEN SHOULD REGENERATE FAIRLY WELL. THE REGENERATION WILL BE MIXED THOUGH ALONG WITH WHITE PINE, RED MAPLE AND HOPEFULLY SOME OAK. WE WILL MARK CLUMPS OF OAK RESIDUAL TO LEAVE. SOME OF THESE CLUMPS COULD BE EXPANDED TO INCLUDE SOME ASPEN AND MAPLE TO BECOME MINI-ISLANDS.										
44	A6	62	64	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : STAND LIES BETWEEN A GRADUAL RIDGE OF UPLANDS TO THE WEST AND A STEEP RIDGE LEADING DOWN TO THE RIVER CORRIDOR TO THE EAST. NOT BAD ASPEN OVERALL ALTHOUGH THERE IS AN AREA OF SEMI-OPEN, LOW QUALITY JACK PINE IN THE SOUTHERN PORTION OF THE STAND. WOULD RECOMMEND FINAL HARVESTING EVERYTHING EXCEPT FOR SCATTERED RETENTION ISLANDS OF OAK AND ASPEN. WOULD EXPECT GOOD ASPEN, MAPLE AND PINE REGENERATION ALONG WITH SOME OAK STUMP SPROUTS. MAY WANT TO MOVE THE MOTORCYCLE TRAIL TO THE WESTERN HARVEST BOUNDARY PRIOR TO TREATMENT. ALONG THE BOUNDARY OF STAND #35, BE SURE TO STAY BACK SLIGHTLY FROM THE DROP OFF IN ORDER TO PREVENT DAMAGE TO THE TOP EDGE OF THE RIDGE THAT COULD LEAD TO FUTURE EROSION.										

**GAYLORD FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 206 Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>65</b>	<b>O6</b>	70	74	45	aspen (upland)	mature	final harvest	1		
comnts Fmd : THIS STAND IS SIMILAR TO STAND #61 ADJACENT TO THE SOUTH. THIS STAND THOUGH HAS VERY LITTLE RED PINE YET IT HAS A BIT MORE ASPEN. I WOULD LIKE TO TREAT THIS STAND NOW AND LEAVE STAND #61 FOR TEN YEARS. THE OAK IS EXTREMELY LOW QUALITY SO IT SHOULD BE CUT TO ENCOURAGE SOME STUMP SPROUTING. I WOULD EXPECT MOST AREAS WILL COME BACK FAIRLY WELL TO A MIX OF NATURAL ASPEN AND OAK SPROUTING ALONG WITH SOME PINE REGENERATION. RATHER THAN LEAVE SCATTERED RESIDUAL, I WOULD PREFER LEAVING UNCUT RETENTION ISLANDS. WE WOULD LIKE TO OBLITERATE THE ROAD ON THE WEST SIDE OF THE STAND AS PART OF THE HARVEST OPERATIONS. REQUIRE THE PRODUCER TO LEAVE STUMPS, TOPS AND OTHER DEBRIS IN THE ROAD BED.										
<b>71</b>	<b>A6</b>	10	87	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : VERY NICE ASPEN WITH A HEAVY FIR UNDERSTORY. THERE IS A PRIVATE CABIN NEAR THE NORTH LINE OF THIS STAND. WE SHOULD LEAVE SOME MINI-ISLANDS FOR RETENTION ESPECIALLY THOSE WHERE THE FIR UNDERSTORY IS VERY HEAVY. I COULD NOT FIND ANY EVIDENCE OF A PROPERTY CORNER NEAR THE CABIN SO THE PROPERTY LINE WILL NEED TO BE ACCURATELY LOCATED.										
<b>Total Acres.....</b>		<b>234</b>								

**Proposed Treatments  
With Limiting Factors**

**Compartment: 206**

**Entry Year: 2009**

<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>
--------------	-----------------------	--------------	------------	-----------------------	--------------------	------------------	-----------------------	-----------------------------	--------------------------	----------------------

---

TREATMENT LIMITING FACTORS:

---

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

Compartment 206  
 T35N, R01E, Sec. 5, 8, 17  
 County: Cheboygan  
 Unit: Gaylord  
 YOY: 2009  
 Acres: 1,882 GIS Calculated  
 Stand Examiner: Ken Phillips  
 Map Revised: 4/13/2007  
 Map Phase: Pre-review

# Field Map

05  
 08  
 17



**Legend**

- Miris Corners
- - - Gravel, County
- Gravel,
- - - Poor Dirt,
- Powerline
- - - Trails
- Motorcycle Trails
- Snowmobile Trails
- Stand Boundary
- Biodiversity/Old Growth Area
- 100 - Final Harvest

