



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 8

ENTRY YEAR: 2008
Compartment Acreage: 565
County: OTSEGO

Revision Date: 4/7/2006

Stand Examiner: GATESY

Legal Description: T29N R01W Sections 25 & 26

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: Roselawn, Grayling and Rubicon Sands on the upland and Lupton Muck on the lowlands. Generally the topography is level with gentle slopes however there are steep slopes in some locations adjacent to Big Creek. There are some bogs which are sunken below the general level of the land in the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The northeast corner of the compartment is bounded by 7th Spectacle Lake that has seasonal and year round residents. Hunting, fishing and berry picking are the primary land uses.

Unique, Natural Features: West Branch of Big Creek.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations: The West Branch of Big Creek, which is part of the AuSable River Natural River Designation, flows through the compartment.

Watershed and Fisheries Considerations: W Br Big Creek is still a marginal trout stream at this point due to the lake outlets. It is also a designated Natural River. The selected harvest as prescribed near the river is acceptable from a fisheries perspective.

Wildlife Habitat Considerations: Part of this compartment lies in the Crapo Lake Kirtland Warbler management unit. The compartment is primarily upland and is a mixture of aspen oak, red and jack pine. The west branch of Big Creek runs through the western part of the compartment. There are beaver present on this stream which provides habitat for otter amphibians and waterfowl. There is a Captive Cervid facility on the eastern boundary of the compartment. Much of the compartment is in an early successional state and oak is regenerating very well. In areas prescribed for cutting, some oak will be left in clumps to provide mast. Mature red pine stands will be left along Big creek for aesthetic purposes and to provide structural diversity.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. The Mississippian Coldwater Shale subcrops below the glacial drift. The Coldwater does not have an economic use. The nearest gravel pit is located six miles to the north, but there may be potential on the uplands. The compartment appears to be mostly developed for Antrim Shale gas production and is located south of the Niagaran reef trend.

Vehicle Access: Access is poor due to the restriction of private land, wetlands and Big Creek and its tributaries. Access may be available by use of the Antrim gas roads on private.

Survey Needs: None needed this entry year.

Recreational Facilities and Opportunities: The North Spur of the Michigan Shore to Shore Riding and Hiking Trail runs through the compartment.

Fire Protection: The 1911 acre Big Creek Fire burned 90% of this compartment on May 20, 1981. It has completely recovered.

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**

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

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 8

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 | | | | 114 | | | | | 7 | 9 | | | | | | | | | 130 |
| Bog or Marsh | 1 | | | | | | | | | | | | | | | | | | 1 |
| Cedar | | | | | | | | | | | 10 | | | 15 | | | | | 25 |
| Grass | 13 | | | | | | | | | | | | | | | | | | 13 |
| Jack Pine | | | | 139 | | | | | | | | 5 | | | | | | | 144 |
| LowInd Brush | 6 | | | | | | | | | | | | | | | | | | 6 |
| Marsh | 51 | | | | | | | | | | | | | | | | | | 51 |
| Mx Swmp Cnfr | | | | | | | | | | | | | | | | 10 | | | 10 |
| Non Stocked | 1 | | | | | | | | | | | | | | | | | | 1 |
| Oak | | | | 43 | | | | | | 10 | | 13 | | | | | | | 66 |
| Red Pine | | | | 86 | | | | | | | | 17 | | | | | | | 103 |
| Water | 15 | | | | | | | | | | | | | | | | | | 15 |
| Total | 87 | | | 382 | | | | | 7 | 19 | 10 | 35 | | 15 | | 10 | | 565 | |

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

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 8

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 | 122 | | | | | | | | | | | | | | | | | | | | | | | 8 | | | 130 |
| V Bog or Marsh | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| C Cedar | | | | 25 | | | | | | | | | | | | | | | | | | | | | | | 25 |
| G Grass | | | | | 13 | | | | | | | | | | | | | | | | | | | | | | 13 |
| J Jack Pine | | | | | | | 144 | | | | | | | | | | | | | | | | | | | | 144 |
| L LowInd Brush | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | 6 |
| N Marsh | | | | | | | | | | | 51 | | | | | | | | | | | | | | | | 51 |
| Q Mx Swmp Cnfr | | | | | | | | | | | | 10 | | | | | | | | | | | | | | | 10 |
| X Non Stocked | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 |
| O Oak | | | | | | | | | | | | | | 66 | | | | | | | | | | | | | 66 |
| R Red Pine | | | | | | | | | | | | | | | | 103 | | | | | | | | | | | 103 |
| Z Water | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 15 | |
| Total | 122 | | 1 | 25 | 13 | | 144 | | 6 | | 51 | 10 | 1 | 66 | | 103 | | | | | | | | 8 | 15 | | 565 |

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 8

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

| COMPARTMENT SUMMARY | | | |
|-------------------------|----------|-----------------------------|---------|
| TOTAL VOLUME | | CUT VOLUME | |
| Hardwood | 257 Cds | Hardwood | 189 Cds |
| Hardwood | 97 Mbf | Hardwood | 40 Mbf |
| Softwood | 717 Cds | Softwood | 139 Cds |
| Softwood | 265 Mbf | Softwood | 43 Mbf |
| Sum TotVol | 1698 Cds | Sum CutVol | 494 Cds |
| Total Cmpt Acres | | Acres Proposed For Cut..... | |
| 565 | | 35 | |

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 8

Entry Year: 2008

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDF Status | |
|---|------------|-----------|-----|------------|----------------|-----------|---------------|------------------|---------------------|------------|--|
| 1 | O6 | 10 | 81 | 50 | oak | mature | final harvest | 2 | | | |
| comnts Fmd : Sec 25 NESW. Reproduction can be jack pine, red pine, white pine, red maple, aspen, or oak. Leave white oak. | | | | | | | | | | | |
| 19 | A2 | 8 | 25 | 62 | upland brush | immature | | 0 | opening maintenance | | |
| comnts Fmd : SEC 26 NWSW. Opening maintenance - U type. | | | | | | | | | | | |
| 201 | A6 | 9 | 81 | 50 | aspen (upland) | mature | final harvest | 2 | | | |
| comnts Fmd : Sec 25 N1/2SW. Reproduction can be jack pine, red pine, white pine, red maple, aspen, or oak. | | | | | | | | | | | |
| Total Acres..... | | 27 | | | | | | | | | |

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 8

Entry Year: 2008

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDF Status |
|-------|------------|-------|-----|------------|---------|-----------|------------------|------------------|---------------|------------|
| 13 | O9 | 13 | 99 | 45 | oak | sparse | shelterwood-prep | 2 | | |

TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : SEC 26 NENW. Reproduction can be jack pine, red pine, white pine, red maple, aspen, or oak.

| | | | | | | | | | | |
|----|----|---|-----|----|----------|--------|-----------|---|--|--|
| 15 | R9 | 3 | 101 | 58 | red pine | mature | selection | 2 | | |
|----|----|---|-----|----|----------|--------|-----------|---|--|--|

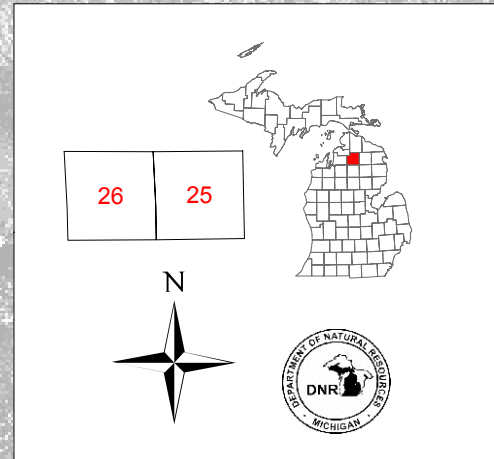
TREATMENT LIMITING FACTORS: Adjacent landowner denies access

comnts Fmd : SEC 26 NENW. Cut with adjacent stand 37, compartment 6. Reproduction can be jack pine, red pine, white pine, red maple, aspen, or oak.

Total Acres..... 16

Field Map

Compartment 8
 T29N, R01W, Sec. 25, 26
 County: Otsego
 Unit: Gaylord
 YOE: 2008
 Acres: 565 GIS Calculated
 Stand Examiner: Gregory Gatesy
 Map Revised: 4/25/2006
 Map Phase: Pre-review



- ### Legend
- Miris Corners
 - County Gravel Roads
 - Poordirt Roads
 - Trails
 - Pipelines
 - Powerlines
 - Water Features
 - Horse Trails
 - Stand Boundary
 - Biodiversity/Old Growth Area
 - 027 - Opening Maintenance/Prescribed Burning
 - 100 - Final Harvest
 - 700 - Shelterwood-prep
 - 800 - Selection

