



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 176

ENTRY YEAR: 2009
Compartment Acreage: 1,080
County: Cheboygan

Revision Date: April 12, 2007

Stand Examiner: Dan Heckman

Legal Description: T35N R02W Sections 13, 14, & 15

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: The Grayling-Rubicon Association dominates this compartment. This association is deep, nearly level to gently rolling, excessively drained, sandy soils that formed in sandy deposits; on outwash plains, delta, and lake plains.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State land bounds this compartment to the north and south, while the east and west boundaries are adjacent to private land. There is one isolated privately owned 40 acre parcel that would be ideal for the state to purchase in Section 14.

Unique, Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: This compartment is in the Pigeon River watershed, and contains portions of the Pigeon River, Little Pigeon River, Silver Creek, and Silver Lake. The Little Pigeon River and the Pigeon River are designated trout streams. The Little Pigeon River and Silver Creek have type 1 trout stream regulations, while the Pigeon River in this compartment has type 4 trout streams regulations. A buffer of approximately 75-100 feet should be kept on top of the ridge adjacent to Little Pigeon River (stand 26). A similar buffer should also be maintained in Stand 38 at the top of the ridge where the steep valley walls get close to the Little Pigeon River and Silver Creeks.

Wildlife Habitat Considerations: This is a diverse compartment with hardwood and conifer swamps, mixes and pure stands of aspen, red pine, jack pine and oak. The species diversity and age class diversity will be maintained by managing for red pine through some timber treatments and aspen/mixed stands through others.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and minor ice-contact sand and gravel. The glacial drift thickness varies between 50 and 400 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is used for stone and cement products. Afton Quarry is located in Section 36. Gravel pits are located in the area, and there is potential. The nearest oil and gas production, the Antrim Shale gas play, is located 15 miles to the southwest. The Antrim Shale is absent in this area and there is no known oil and gas potential.

Vehicle Access: There are several seasonal county and dirt roads which lead in to and/or near this compartment.

Survey Needs:

Recreational Facilities and Opportunities: There are no designated trails or recreational sites in this compartment.

Fire Protection:

Additional Compartment Information:

Cover Type details, Proposed Treatments, and Stand listings are listed in the attached reports:

- ◆ **Cover Type by Age Class**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**
- ◆ **Stand Listing – Forested**
- ◆ **Stand Listing – Non Forested**
- ◆ **Special Conservation Area (SCA) Details**

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**
- ◆ **SCA – Special Conservation Areas**



Stage 1 Acres Summary By Level 3 Cover Type By Age

Compartment: 52176

Date: 5/2/2007

	0	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89	Uneven Age	Grand Total
Aspen Types	0	135.6	8.4	8.9	0	21	0	4.7	75.1	17.6	0	10.4	281.7
Emergent Wetland	20	0	0	0	0	0	0	0	0	0	0	0	20
Low-Density Trees	43.4	0	0	0	0	0	0	0	0	0	0	0	43.4
Lowland Coniferous Forest	0	0	0	0	0	0	0	0	0	5.8	64.8	91.7	162.3
Lowland Deciduous Forest	0	0	0	0	40.1	0	0	0	0	17.9	19.9	0	77.9
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	27.7	0	0	27.7
Lowland Shrub	4.4	0	0	0	0	0	0	0	0	0	0	0	4.4
Mixed Upland Deciduous	0	0	0	0	0	0	0	27.9	0	0	0	0	27.9
Mixed non-forested wetland	43.9	0	0	0	0	0	0	0	0	0	0	0	43.9
Natural Pines	0	0	0	0	0	0	0	45.9	0	46.8	78.9	36.6	208.2
Planted Pines	0	8.3	0	0	0	36.2	0	0	0	0	0	0	44.5
Upland Mixed Forest	0	0	87.9	0	0	0	0	0	47.4	0	0	0	135.3
Water	2.4	0	0	0	0	0	0	0	0	0	0	0	2.4
Grand Total	114.1	143.9	96.3	8.9	40.1	57.2	0	78.5	122.5	115.8	163.6	138.7	1079.6

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

S t a n d	Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 1
38	38	51.8	4136 - Aspen, Mixed Conifer	9	78	76	Clearcut with Reserves	Regeneration	Aspen	
<u>Rev</u> Good access.										
<u>Cmnt:</u>										
<u>Rev</u> Final Harvest, cut 2" and up, leave Oak. Mark leave islands where Red Pine is heaviest. Harvest merchantable WP. Need to buffer little pigeon river										
<u>Spec:</u> stream corridor and Silver creek to prevent Beaver activity. Acceptable species for regeneration include Aspen species and mixed hardwood species.										
<u>Next</u> Regeneration survey										
<u>Steps:</u>										
50	50	47.4	4311 - Pine, Aspen Mix	6	76	78	Clearcut with Reserves	Regeneration	Aspen, Jack Pine	
<u>Rev</u> Natural regen of aspen and jack pine.										
<u>Cmnt:</u>										
<u>Rev</u> Final harvest, cut 2" and up, follow retention guidelines. Use two track as south boundary. Acceptable species for regeneration include Aspen species,										
<u>Spec:</u> Jack Pine, White Pine, Red Pine, and mixed hardwood species.										
<u>Next</u> Regeneration Survey										
<u>Steps:</u>										
43	52176043-3rd row thin	11.1	42110 - Planted Red Pine	6	45	45	Systematic Thinning	Intermediate Cut	Planted Red Pine	
<u>Rev</u>										
<u>Cmnt:</u>										
<u>Rev</u> 3rd row thin, no need to mark rows.										
<u>Spec:</u>										
<u>Next</u>										
<u>Steps:</u>										
48	52176048- Clear cut	17.6	4133 - Aspen, Mixed Pine	6	83	0	Clearcut with Reserves	Regeneration	Aspen, Mixed Pine	
<u>Rev</u> Pvt line work needed.										
<u>Cmnt:</u>										
<u>Rev</u> Harvest all trees 2" and up, leave pine species. No aspen retention for regeneration purposes. Acceptable species for regeneration include Aspen										
<u>Spec:</u> species and mixed hardwood species.										
<u>Next</u> Regeneration Survey										
<u>Steps:</u>										
51	52176051-Cut	17.2	42120 - Planted Jack Pine	6	46	0	Systematic Thinning	Intermediate Cut	Planted Red Pine	
<u>Rev</u>										
<u>Cmnt:</u>										
<u>Rev</u> Harvest all JP, Mark RP to harvest where needed. Target residual BA is 100 BA/acre.										
<u>Spec:</u>										
<u>Next</u>										
<u>Steps:</u>										
58	52176058- thinning	7.9	42110 - Planted Red Pine	6	45	45	Crown Thinning	Intermediate Cut	Planted Red Pine	
<u>Rev</u>										
<u>Cmnt:</u>										
<u>Rev</u> Thin stand to 100 BA.										
<u>Spec:</u>										
<u>Next</u>										
<u>Steps:</u>										

**Total Treatment
Acreage Proposed: 153.0**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**

Stand	Treatment Name	Acres	Stage1 CovType	Size Density	1st Age	2nd Age	Treatment Method	Treatment Purpose	Cover Type Objective	Pg. 1
26	52176026-Cut	37.0	42210 - Natural Red Pine	9	68	0	Crown Thinning	Intermediate Cut	Natural Red Pine, Mixed Deciduous	

Limiting Factor 2B: Bridge Needed

and Comment: There are water courses to deal with in order to harvest this stand.

Rev Cmnt: Stand will result in mixed aspen/red maple regen under natural redpine.

Rev Spec: Remove all aspen and red maple, thin red pine where needed down to 100 ba/ac.

Next Steps:

27	52176027-Clear Cut	27.9	4191 - Mixed Upland Deciduous with Conifer	9	65	80	Clearcut with Reserves	Regeneration	Aspen, Mixed Pine	
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Limiting Factor 2B: Bridge Needed

and Comment:

Rev Cmnt: Bridge needed in order to harvest this stand, may not work out.

Rev Spec: Final Harvest, leave Pine species, cut 2" and up, follow retention guide lines. Add snowshoe hare spec.

Spec: Acceptable species for regeneration include Aspen species and mixed hardwood species.

Next Steps: Regeneration survey

30	52176030-Clear Cut	4.7	4130 - Aspen	5	65	0	Clearcut with Reserves	Regeneration	Aspen	
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Limiting Factor 2B: Bridge Needed

and Comment:

Rev Cmnt: Bridge need to harvest this stand, may not work out.

Rev Spec: Final harvest, cut 2" and up, leave pine species, no aspen retention to promote regeneration. Add snow shoe hare spec. Acceptable species for

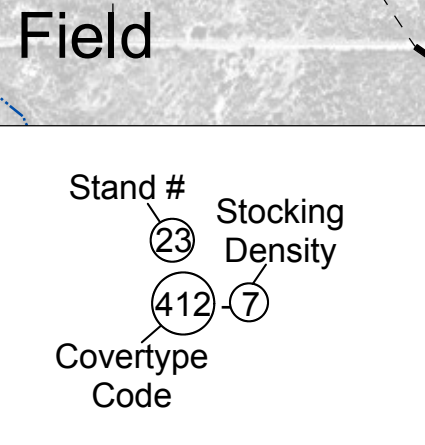
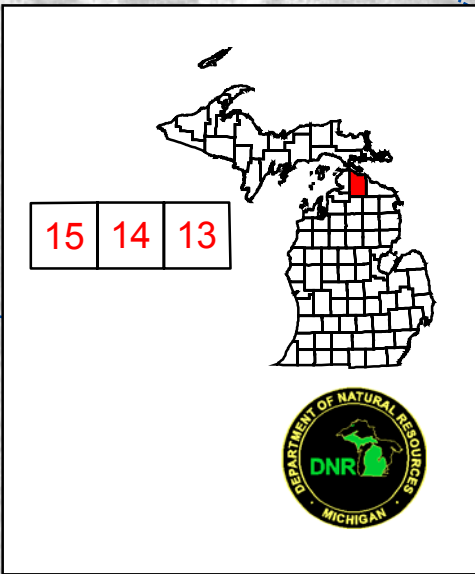
Spec: regeneration include Aspen species and mixed hardwood species.

Next Steps: Regeneration survey

**Total Treatment
Acreage Proposed: 69.6**

Compartment 176
 T35N, R02W, Sec. 13, 14, 15
 County: Cheboygan
 Unit: Gaylord
 YOY: 2009
 Acres: 1,080 GIS Calculated
 Stand Examiner: Daniel Heckman
 Map Revised: 5/05/2007
 Map Phase: Pre-Review

Multipoly stands:
 Stand 21, 2 parts, split by private area
 Stand 43, 3 parts, contained within stand 44



Legend

- - - County Poor Dirt Roads
- Gravel Roads
- - - Poor Dirt Roads
- + Railroads
- Intermittent Stream/Drain
- Stream
- Stands
- Clearcut with Reserves
- ▨ Crown Thinning
- ▩ Systematic Thinning

Forest Stands

- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

Stocking Density	Definition
1	Sapling Low
2	Sapling Medium
3	Sapling Well
4	Pole timber Low
5	Pole timber Medium
6	Pole timber Well
7	Sawtimber Low
8	Sawtimber Medium
9	Sawtimber Well

