

# COMPARTMENT REVIEW PRESENTATION

### GAYLORD FOREST MANAGEMENT UNIT

**COMPARTMENT: 185** 

ENTRY YEAR: 2012 ACREAGE: 1,338 COUNTY: Cheboygan

**Revision Date:** 04/01/2010

**Stand Examiner:** John Scheele

**Legal Description:** T35N - R01W Sections 25, 26, and 27

**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: This compartment is fairly level and consisting of mostly wet and fairly wet non-forested vegetation types. There is a linear steep, narrow ridge that runs northwest to southeast. There are 3 general soil type associations. The Cheboygan-Blue Lake Association soils are located on the eastern side of the compartment and are nearly level to very steep, well drained and moderately well drained, sand soils that either are moderately deep to dense till or are deep and that formed in loamy and sandy deposits; on till plains and moraines. The Tawas-Lupton Association soils are located throughout the compartment and are deep, nearly level, very poorly drained, mucky soils that formed in organic material or in organic material and sandy material; in depressions on lake plains and till plains. The Rubicon-Blue Lake Association soils are located in the center of the compartment and are deep, gently rolling to very steep, excessively drained and well drained, sandy soils that formed in sandy deposits; on lake plains, outwash plains, and moraines.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State ownership is fairly contiguous within the compartment and with the compartments to the north and south. Private parcel ownership is present on the west and east boundary lines of the compartment. There is one 40 acre private parcel in the center of the compartment recommended for acquisition and an 80 acre landlocked state parcel recommended for disposal.

### **Unique, Natural Features:**

**Archeological, Historical, and Cultural Features:** None known. An Archaeological and Cultural Sites Reporting form has been filled out for a possible old building foundation site located adjacent to remnants of an old railroad grade.

**Special Management Designations or Considerations:** None

**Watershed and Fisheries Considerations:** This compartment contains a portion of Stoney Creek, a tributary to Milligan Creek within the Cheboygan River watershed. There continues to be beaver dam issues in this designated trout stream. A 300-foot no clear cut buffer should be maintained adjacent to this stream (Stands 9 and 38), and aspen regeneration should be discouraged near the river to reduce beaver activity and dams.

**Wildlife Habitat Considerations:** This compartment contains mostly lowland habitat with some upland high spots and ridges. Stoney Creek Flooding is in this compartment and is utilized by both Canada Geese, wood ducks, mallards, and various amphibians. The lowland areas of this compartment are utilized by woodcock and grouse. In the upland areas stands 9, 38, and 48 are going to be final harvest to provide early successional habitat utilized by deer, grouse, woodcock, grouse, wild turkey, and the occasional elk. Stands 24 and 35 are also going to be final harvested, but held until the compartment to the north is cut.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse textured till. The glacial drift thickness varies between 10 and 50 feet. The Devonian Traverse Limestone subcrops below the glacial drift and it is quarried for limestone, elsewhere in the state. Gravel pits are located on the uplands and the compartment has good potential. The nearest oil and gas production, the Niagaran Reef Trend, is located 12 miles to the south. There is no known oil and gas potential in this area, however most of the Compartment is leased for development.

**Vehicle Access:** There are 2 seasonal county roads leading to this compartment, Stoney Creek Road from the west and West Brady Road from the east. There is also access to the compartment from the north and south by state dirt roads.

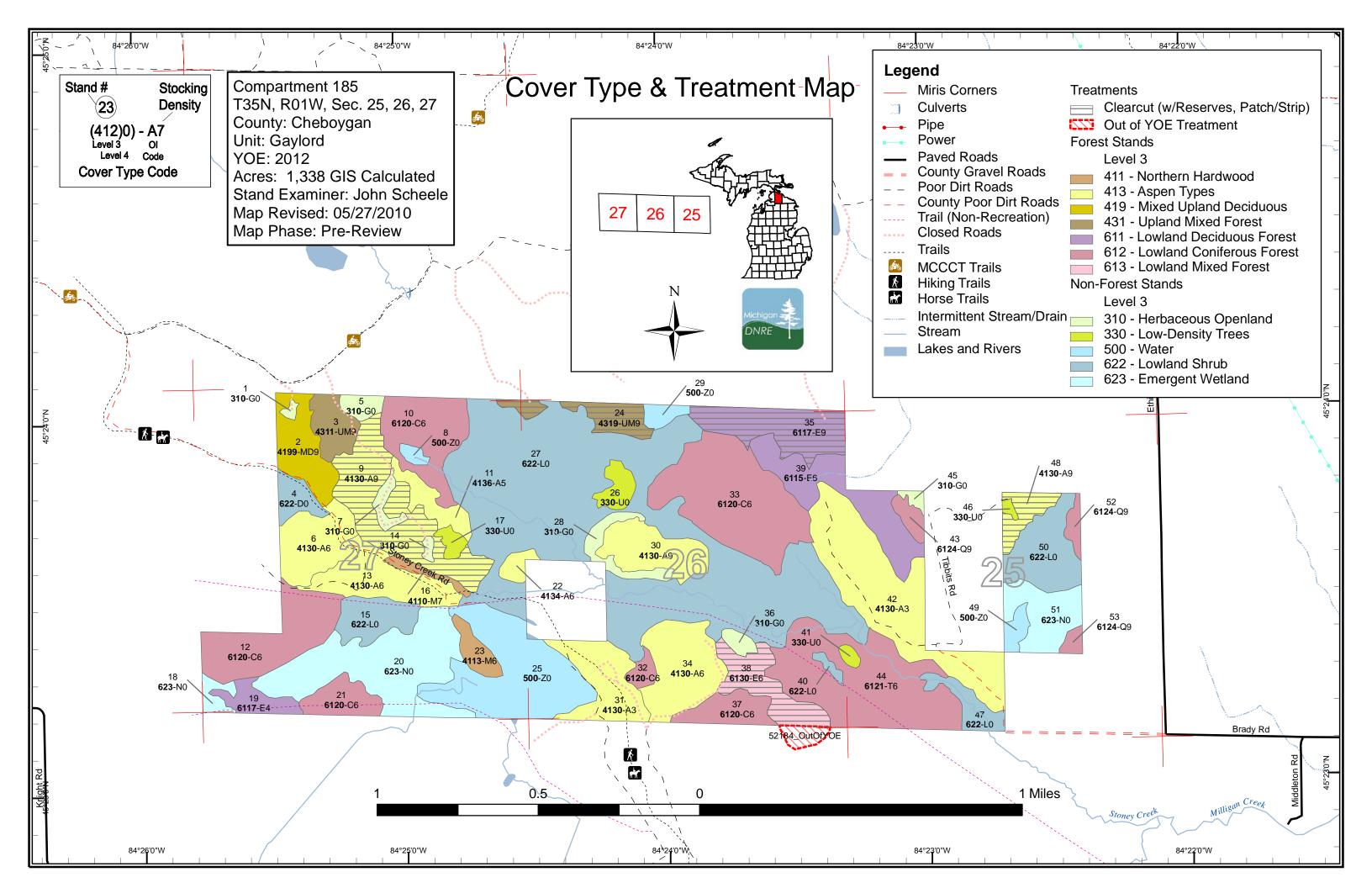
**Survey Needs:** 2 proposed harvest treatments have adjacent boundaries with private parcels. Some survey assistance may be needed.

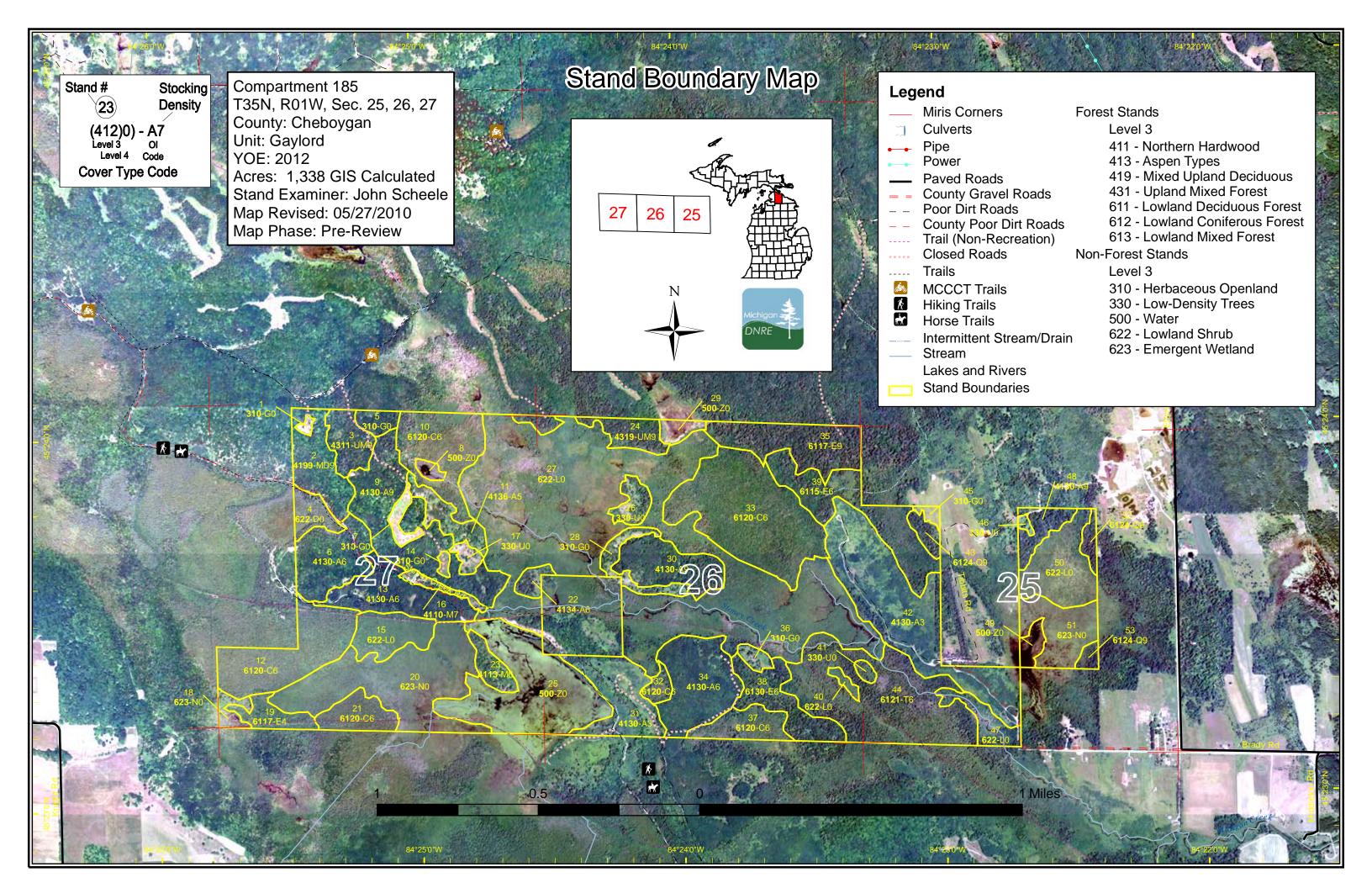
**Recreational Facilities and Opportunities:** The Michigan Shore to Shore Horse Trail and the Midland to Mackinaw Hiking Trial runs through this compartment. Stoney Creek Flooding is also located in the compartment which provides additional hunting and recreational opportunities.

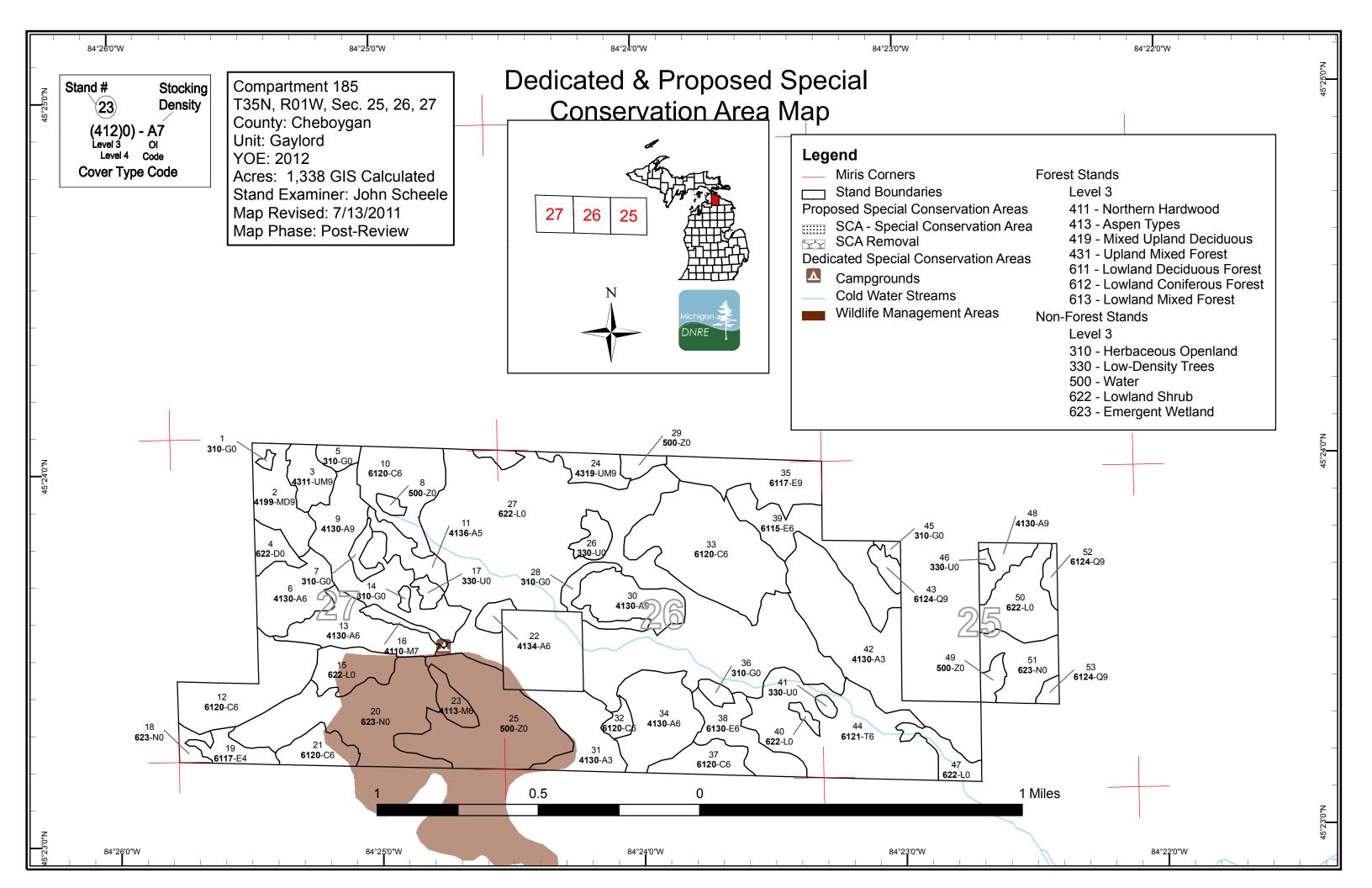
#### **Fire Protection:**

#### **Additional Compartment Information:**

- > The following 3 reports from the IFMAP Inventory System are attached:
  - **♦** Cover Type by Age Class
  - **♦** 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 and current SCA's







(Level 3 Cover Type)

Compartment 185 Year of Entry 2012



Age (	Class
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	No.	O Signal of the second of the	0,7 / 1	70,79	P. P. P.	, S. /	D. C.	\$5.05	\$5'.00 / 1	,	\$ 8 S	8 /	80,00	10,70	,	A A	do la companya de la companya della companya della companya de la companya della
Aspen Types	0	0	80	67	12	29	36	10	80	0	0	0	0	0	0	314	
Emergent Wetland	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	
Herbaceous Openland	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
Lowland Coniferous Forest	0	0	0	0	0	0	0	0	93	36	63	76	14	0	0	281	
Lowland Deciduous Forest	0	0	0	0	0	0	0	0	11	40	34	0	0	0	0	84	
Lowland Mixed Forest	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24	
Lowland Shrub	346	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	24	
Northern Hardwood	0	0	0	0	0	0	0	0	0	4	8	0	0	0	0	13	
Upland Mixed Forest	0	0	0	0	0	0	15	0	14	0	0	0	0	0	0	29	
Water	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	
Total	569	0	80	67	12	29	51	34	197	80	129	76	14	0	0	1338	



# **Table 2 – Proposed Treatment Summaries**

Gaylord Mgt. Unit

Compartment 185

Year of Entry 2012

Total Compartment Acres: 1338

## **Acres by Treatment Type**

Commercial Harvest - 137 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Opening Maintenance - 0 Tree Seeding - 0 Pesticide - 0

# **Cover Type by Harvest Method**

		Cover Type by Harvest Method									
		/	# D D D D D D D D D D D D D D D D D D D	To Joseph So	10 K	New of A	Otto Otto		R. S.		
Aspen		64	0	0	0	0	0	64			
Lowland Deciduous		34	0	0	0	0	0	34			
Lowland Mixed F	24	0	0	0	0	0	24				
Upland Mixed Fo	rest	15	0	0	0	0	0	15			
	Total	137	0	0	0	0	0	137			

Compartment: 185 Gaylord Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2012 s t **Treatment** Acres Stage1 Size Stand **Treatment Treatment** Cover Type **Approval** n Method Objective Name CoverType Density **Status** d Age Type 52185009-9 53.7 4130 - Aspen High Density Log 71 Harvest Clearcut with Aspen Cmpt. Review **CCWR** Reserves Proposal Prescription Clearcut stand to regenerate. Do not cut spruce, pine, or oak species. Also leave a retention area between Stands 14 and 17. Specs: The larger-sized aspen trees are starting to develop trunk rot and falling over. Access the stand from the north off of Michigan State Road. Other | Comments: Monitor success of regeneration in next treatment period. Acceptable regeneration includes mix of aspen, coniferous and upland deciduous tree <u>Next</u> species. Steps: 52185038-38 23.8 6130 - Fir, Aspen, High Density Pole 60 Harvest Clearcut with Fir, Aspen, Maple Cmpt. Review **CCWR** Maple Reserves Proposal Prescription Clearcut stand to regenerate. Do not cut cedar, spruce, or white pine. No other retention is recommended. Include portion of stand in Specs: Compartment 184 in timber sale. Stand consist of balsam fir that is falling over and has pockets of blowdown in areas within the stand. Access stand from the west across higher Other ground that runs through the center of the stand. Comments: <u>Next</u> Monitor success of regeneration in next treatment period. Acceptable regeneration includes a mix of aspen, conifer, and deciduous species.

4130 - Aspen High Density Log Aspen Proposal

Harvest

Clearcut

Prescription Clearcut stand to regenerate aspen. No retention is recommended because of low economic marketability due to stand size and location. Specs:

60

Other Access to stand would be from the west throught a private arcel owned by Thomas Daugharty. Contact was made Mr. Daugharty during inventory. He said he would consider granting access to the stand. Comments:

Monitor success of regeneration in next treatment period. Acceptible regeneration includes a mix of aspen, conifer, and upland deciduous <u>Next</u> Steps: species.

**Total Treatment** 

52185048-CC

10.3

Steps:

48

87.7 Acreage Proposed:

Cmpt. Review

Table 4 -- Treatments Prescribed with Compartment: 185 a Limiting Factor s Year of Entry 2012 t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment** Cover Type **Approval** n CoverType Method Objective Name Density **Status** d Age Type 52185024-24 15.2 4319 - Mixed High Density Log 57 Harvest Clearcut with Mixed Upland Forest Cmpt. Review **CCWR** Proposal **Upland Forest** Reserves

Prescription Clearcut stand to regenerate. Do not cut spruce species. No additional retention is recommended.

Specs:

Other 1 4 1 Larger aspen trees have trunk rot and are dying out. Include this stand with the stands to the north in Compartment 186 if they are prescribed for

Comment: harvest in YOE 2017.

Monitor success of regeneration in the next treatment period. Acceptable regeneration includes a mix of aspen, conifer, and upland deciduous <u>Next</u>

trees. Steps:

Limiting Factor and No 4B: Inferior quality

**Treatment Reason** Include this stand with the stands to the north in Compartment 186 if they are prescribed for harvest in YOE 2017.

35 52185035-33.8 6117 - Lowland High Density Log Clearcut with Lowland Deciduous, Cmpt. Review 90 Harvest **CCWR** Deciduous, Mixed Reserves Mixed Coniferous Proposal

Prescription Clearcut to regenerate stand. Do not cut cedar or spruce species.

Coniferous

Gaylord Mgt. Unit

Specs:

Other Stand has over-maturing aspen trees with trunk rot which are falling over. Larger-sized balsam fir trees are also falling over. Include this stand Comment:

with the stand to the north in Compartment 186 if it is prescribed for harvest in YOE 2017.

Monitor success of regeneration in next treatment period. Acceptable regeneration includes a mix of aspen and conifer species. Next

Steps:

Limiting Factor and No 4B: Inferior quality

Treatment Reason Include this stand with the stands to the north in Compartment 186 if they are prescribed for harvest in YOE 2017.

**Total Treatment Acreage Proposed:** 

49.0

#### Treatments Prescribed Out of Year of Entry

Year of Entry2012

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DNRE	_

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 1
52054_OutOfYOE- Cut	5.2				Harvest	Single Tree Selection	Sugar Maple Association	

<u>Prescription</u> Selection mark to create regeneration gaps, and crop tree release where needed. Include this with adjacent selection cut to north for access. <u>Specs:</u>

Other Acc

Access from Graves Crossing Road from Compartment 54 existing trails.

Comments:

Next Monitor for regeneration success.

Steps:

**52184\_OutOfYOE-** 5.1 0 Harvest Clearcut with Fir, Aspen, Maple CCWR Reserves

<u>Prescription</u> Clearcut stand to regenerate. Do not cut cedar, spruce, or white pine.

Specs:

Other Include this area with stand 38 in Compartment 185 when setting up timber sale.

Comments:

Next Steps:

**Total Treatment** 

Acreage Proposed: 10.3

S t	Gaylord Mgt. Unit				orested Stands ry Method: IFMAP	Compartment: 185 Year of Entry: 2012  Michigan DNRE
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4199 - Other Mixed Upland Deciduous	High Density Log	24.2	90	51-80	
3	4311 - Pine, Aspen Mix	High Density Log	14.1	70		
6	4130 - Aspen	High Density Pole	28.7	45		
9	4130 - Aspen	High Density Log	53.7	71		
10	6120 - Lowland Cedar	High Density Pole	35.5	85		
11	4136 - Aspen, Mixed Conifer	Medium Density Pole	12.2	34		
12	6120 - Lowland Cedar	High Density Pole	42.8	90		
13	4130 - Aspen	High Density Pole	31.1	55		
16	4110 - Sugar Maple Association	Low Density Log	4.4	85		
19	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	10.5	73		
21	6120 - Lowland Cedar	High Density Pole	14.2	110		
22	4134 - Aspen, Spruce/Fir	High Density Pole	4.8	55		
23	4113 - R.Maple, Conifer	High Density Pole	8.4	95		
24	4319 - Mixed Upland Forest	High Density Log	15.2	57		
30	4130 - Aspen	High Density Log	26.2	70		
31	4130 - Aspen	High Density Sapling	29.3	27		
32	6120 - Lowland Cedar	High Density Pole	4.5	95		
33	6120 - Lowland Cedar	High Density Pole	75.9	105		

s t	Gaylord Mgt. Unit				orested Stands ry Method: IFMAP	Compartment: 185 Year of Entry: 2012
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	4130 - Aspen	High Density Pole	38.0	27		
35	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	33.8	90		
37	6120 - Lowland Cedar	High Density Pole	15.2	90		
38	6130 - Fir, Aspen, Maple	High Density Pole	23.8	60		
39	6115 - Lowland Ash	High Density Pole	39.7	80		
42	4130 - Aspen	High Density Sapling	80.1	17		
43	6124 - Lowland Spruce- Fir	High Density Log	5.3	72		
44	6121 - Tamarack	High Density Pole	80.3	70		
48	4130 - Aspen	High Density Log	10.3	60		
52	6124 - Lowland Spruce- Fir	High Density Log	4.1	72		
53	6124 - Lowland Spruce- Fir	High Density Log	2.9	72		

## 6 - Nonforested Stands Inventory Method: IFMAP

Compartment: 185 Year of Entry: 2012



Stand	Cover Type	Acres	Gen Cmts:
1	310 - Herbaceous Openland	1.2	
4	6224 - Treed Bog	9.1	
5	310 - Herbaceous Openland	5.5	Stand clearcut in 2009 with adjacent harvest in Compartment 186.
7	310 - Herbaceous Openland	4.7	
8	50 - Water	2.6	
14	310 - Herbaceous Openland	1.5	
15	622 - Lowland Shrub	18.2	
17	3301 - Low Density Deciduous Tree	3.9	
18	623 - Emergent Wetland	5.0	
20	623 - Emergent Wetland	71.3	
25	50 - Water	66.5	
26	3303 - Mixed Low Density Trees	7.8	
27	622 - Lowland Shrub	276.3	
28	310 - Herbaceous Openland	9.7	
29	50 - Water	5.0	
36	310 - Herbaceous Openland	3.7	
40	622 - Lowland Shrub	2.2	
41	3302 - Low Density Conifer Trees	2.0	

## 6 - Nonforested Stands Inventory Method: IFMAP

Compartment: 185 Year of Entry: 2012



Stand	Cover Type	Acres	Gen Cmts:
45	310 - Herbaceous Openland	2.0	
46	3301 - Low Density Deciduous Tree	1.2	
47	622 - Lowland Shrub	11.3	
49	50 - Water	5.1	
50	622 - Lowland Shrub	29.4	
51	623 - Emergent Wetland	23.9	

Gaylord Mgt. Unit Compartment: 185

Year of Entry: 2012

# Michigan DNRE

#### 7 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

**Inventory Method: IFMAP** 

Stand	SCA Type	SCA Name	Acres	Comments

Compartment: 185 Year of Entry 2012



#### 8 - DEDICATED CONSERVATION AREA DETAILS

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservatio Area	n Type	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area		
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions and those of other coldwater fish spectyear to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	ies (e.g., slimy sculpin) to persist from ese conditions due to substantial		
SCA	SCA Concentrated Facilities that are designed and maintained for routine or heavy recreational use, including State Pa State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.				
SCA	Habitat Area	An area that provide some specific need for the life cycle of wild and Waterfowl Production Areas, deer wintering complexes in lo openings and savannas. Habitat areas are distinct from critical hendangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened o covered by species recovery plans that are developed in cooper	wland conifer communities, grassland nabitat designated for recovery of piping plover areas) in that they are more rendangered species, and are not		