

COMPARTMENT REVIEW PRESENTATION

GAYLORD FOREST MANAGEMENT UNIT

COMPARTMENT: 181 ENTRY YEAR: 2013 ACREAGE: 1,181 COUNTY: Cheboygan

Revision Date: 04/13/2011

Stand Examiner: Tricia Mitchell

Legal Description: T35N-R01W, Sections 8, 17, 18

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 somewhat variable in its topography, especially in the western and southwest portions of Sections 8 and 17, also including the southeast quarter of section 17. Equipment operability would be restricted by season, though most restrictive topographical features have been excluded from sale boundaries. Rubicon and Emmet Sandy Loam are the dominant soil types on the following associations: Grayling-Rubicon Association (Section 17, Section 18), Cheboygan-Blue Lake Association (Section 8, Section 17), and Rubicon-Blue Lake Association (Section 17, Section 18).

Ownership Patterns, Development, and Land Use in and Around the Compartment: There is a private 120-acre parcel in the northeast quarter of section 8, also a private 40-acre parcel in the southwest corner of section 17. The entire line on the West of Sections 8 and 17 (bound by Carter Road) is juxtaposed to private property. The South end of section 17 is also entirely lined by private property. State land in section 18 is met on the North, South, and East sides by private property.

Unique, Natural Features: The Michigan Natural Features Inventory database indicated the potential for red-shouldered (*Buteo lineatus*) hawk and goshawk (*Accipiter gentilis*) in the compartment, though its presence is currently lacking. While potential exists for the presence of multiple plant and animal species, none are reported in the compartment (according to MNFI and current field observations).

Archeological, Historical, and Cultural Features: A search of the Archeological Concerns database did not identify any recorded features.

Special Management Designations or Considerations: There are no current Special Management Designations or Considerations within this compartment.

Watershed and Fisheries Considerations: This compartment is within the Little Pigeon River watershed, which is within the larger Cheboygan River drainage. The compartment contains a portion of the Little Pigeon River, which is a designated trout stream and is classified as a warm transitional stream through this reach. A minimum no clear-cut buffer of 100 feet should be maintained adjacent to the Little Pigeon River and its tributaries.

Wildlife Habitat Considerations: This compartment contains mostly upland habitat with a small wetland component in the middle of the area and the south east corner. In the upland areas, parts of stand 7 and 22 are going to be clear cut to provide early successional habitat utilized by white-tailed deer, grouse, woodcock and various early successional song birds. Oak is going to be left in stand 7 for hard mast production. Stands 4, 6, 10, and 13 are openings that are going to be maintained to provide this component within this compartment.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of icecontact sand and gravel. The glacial drift thickness varies between 10 and 400 feet, thickening to the northeast. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is used for cement and stone elsewhere in the State. The Afton limestone quarry is located three miles to the southwest. The nearest gravel pit is located in the NW of Section 21. The compartment appears to have good gravel potential. The nearest oil and gas production, the Niagaran Reef Trend, is located 12 miles to the southeast. The area was recently leased and the Collingwood Formation may have oil and gas potential.

Vehicle Access: Access is good throughout the compartment, though some road maintenance will need to be performed to open up grown-over roads and to maintain road integrity.

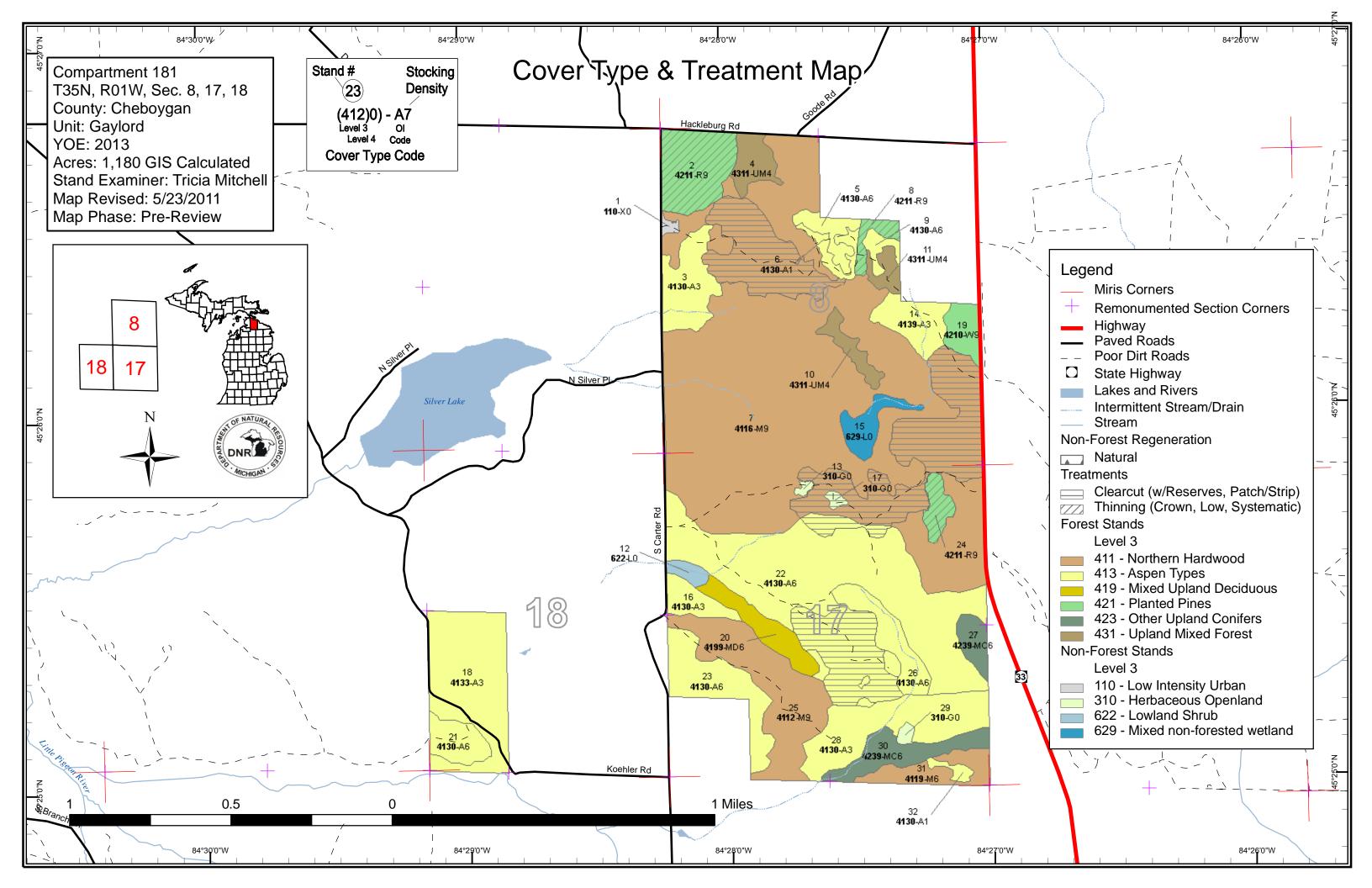
Survey Needs: There exist no current survey needs.

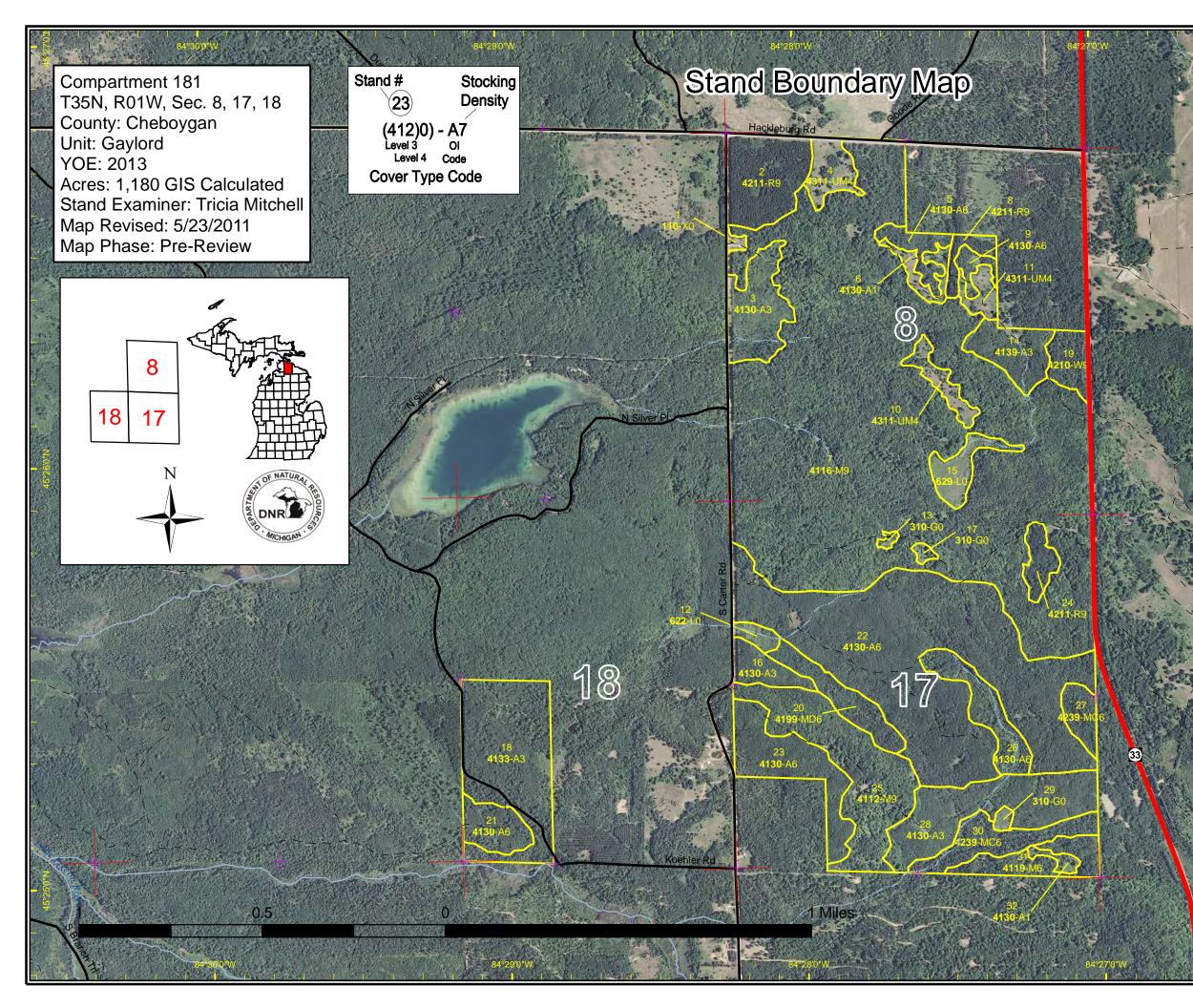
Recreational Facilities and Opportunities: There are no maintained recreational facilities or opportunities within the compartment.

Fire Protection: This compartment is composed of extremely high risk fuel types. This combined with the activities associated with the intense Antrim Gas development puts this compartment at a very high risk for future wildfires similar to the Big Creek fire which burned a portion of this compartment in 1981. The existing road network does provide easy access to most off road areas within the compartment.

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





Legend

- Miris Corners
- Remonumented Section Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- C State Highway
- Intermittent Stream/Drain Stream
- Stand Boundaries

Forest Stands

Level 3

- 411 Northern Hardwood
- 413 Aspen Types
- 419 Mixed Upland Deciduous
- 421 Planted Pines
- 423 Other Upland Conifers
- 431 Upland Mixed Forest

Non-Forest Stands

Level 3

- 110 Low Intensity Urban
- 310 Herbaceous Openland
- 622 Lowland Shrub
- 629 Mixed non-forested wetland

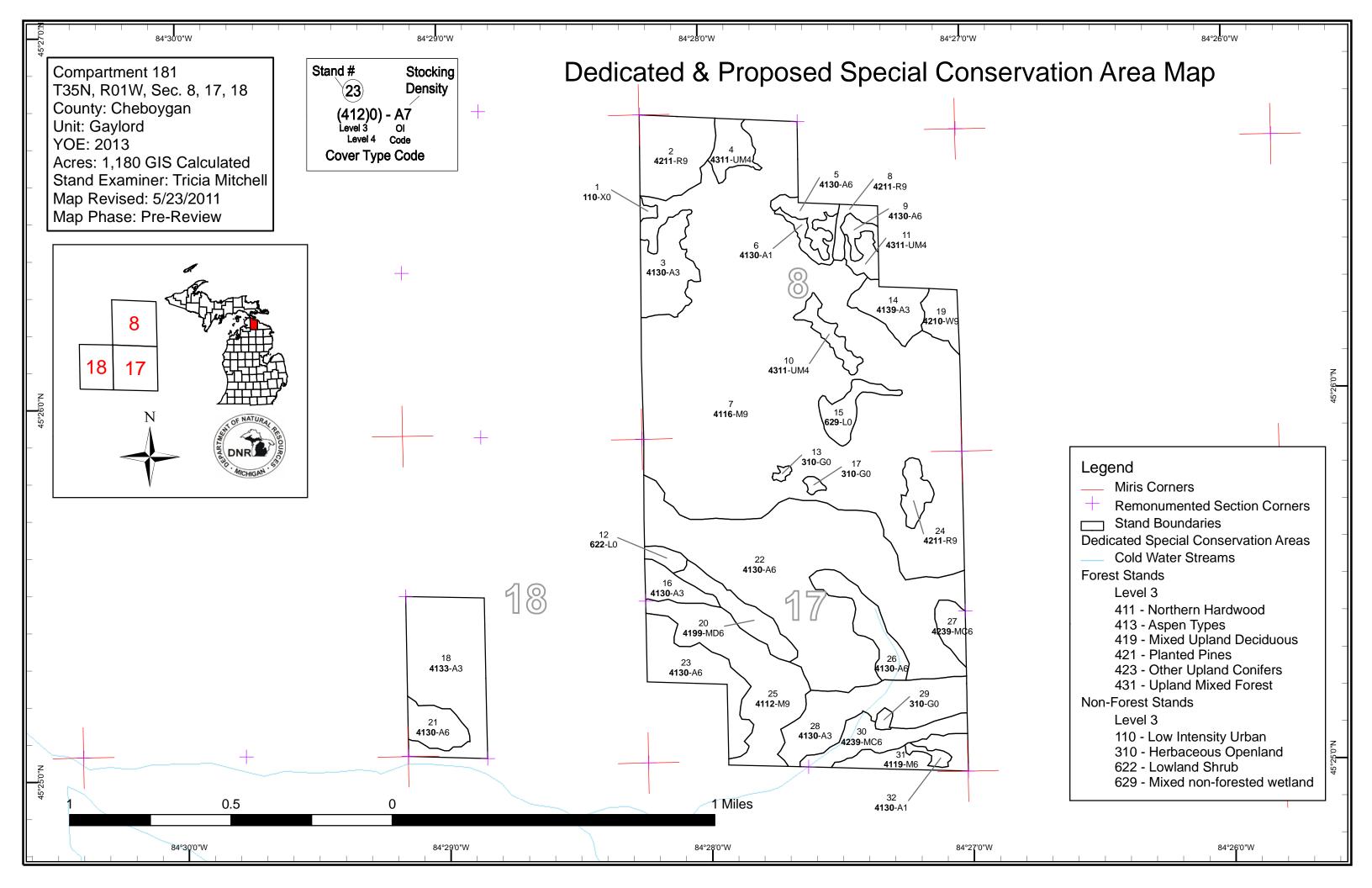


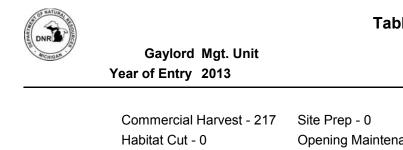
Table 1 – Total Acres by Cover Type and Age Class

Gaylord Mgt. Unit Tricia Mitchell : Examiner

Compartment 181 Year of Entry 2013



							Age	Class									
	Hor	Des Contraction of the second	°z	6 ^{7,0}	62 - C2		10-12-1-	05.30	60 ^{.00}	10	69-50- 69-50-60	6.6	00,001	021.021,	120× 1300	AN AN AN	100
Aspen	0	0	102	57	203	0	24	0	0	0	0	0	0	0	64	450	
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
Mixed Upland Deciduous	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17	
Northern Hardwood	0	0	0	0	0	0	501	17	0	58	0	0	0	0	0	576	
Red Pine	0	0	0	0	0	41	6	0	0	0	0	0	0	0	0	47	
Upland Conifers	0	0	0	0	0	0	21	0	9	0	0	0	0	0	0	30	
Upland Mixed Forest	0	0	0	0	7	20	0	0	0	0	0	0	0	0	0	27	
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
White Pine	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11	J
Total	22	0	102	57	209	62	570	28	9	58	0	0	0	0	64	1180	



Red Pine

Total

Compartment 181 Total Compartment Acres: 1180

-							•	
		Acres by T	reatment 1	уре				
rcial Harvest - 217	Site Prep - 0	Tree P	lanting - 0		Prescr	ibed Burn - 0	Other - 0	
Cut - 0	Opening Maintenance - 28	Tree S	eeding - 0		Pestici	de - 0		
	jë		pe by Harv		Sol Log	5 ⁵⁰		
Aspen	41	0 0	0 0	0	41			
Northe	rn Hardwood 128	0 0	0 0	0	128			

S t		Gaylord Mgt. Unit				atments Pre _imiting Fac	Compartment: 181 Year of Entry 2013	DNR DNR	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	52181002-Cut	33.1	42110 - Planted Red Pine	High Density Log	49	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
Pres Spe	<u>scription</u> Mark to <u>cs:</u>	retain 12	0 BA.						
<u>Othe</u> Corr Next	nments:								
Step	<u>DS:</u>								
7	52181007- Cut_E	84.0	4116 - Mixed N. Hardwood - Aspen	High Density Log	50	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
Pres Spe		. Retain	white pine, oak, heml	ock, and yellow birc	h. Cut al	l scotch pine (re	gardless of diameter).		
	<u>iments:</u>	ygon har	vest with the purpose	of regenerating as	pen.				
<u>Nex</u> Step									
7	52181007- Cut_N	44.4	4116 - Mixed N. Hardwood - Aspen	High Density Log	50	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Pres</u> Spe		s of tree	s >2" dbh with except	ion of all oak and w	hite pine.				
Othe Corr	er Dual-pol	ygon har	vest with the purpose	of regenerating as	pen.				
Next Step									
8	52181008-Cut	5.9	42110 - Planted Red Pine	High Density Log	59	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
Pres Spe	<u>scription</u> Mark to <u>cs:</u>	retain 12	0 BA.						
Othe Corr	er iments:								
Nex Step									
22	52181022- Cut_small	40.7	4130 - Aspen	High Density Pole	32	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
Pres Spe		with rete	ention. Keep boundari	es out of wet draws	i.				
<u>Othe</u> Corr	er Clearcut	with the	purpose of aspen rec	generation.					
<u>Nex</u> Step	ţ								
24	52181024-Cut	8.4	42110 - Planted Red Pine	High Density Log	49	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
Pres Spe	<u>scription</u> Mark to <u>cs:</u>	retain 12	0 BA.						
Othe Corr	er_ 1ments:								
<u>Next</u> Ster									

Gaylord Mgt. Unit

Table 3 - Treatments Prescribed with No Limiting Factor

Compartment: 181 Year of Entry 2013

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DNR RC
Approval

S t				vi wi		_imiting Facto	Year of Entry 2013	DNR MICHAN	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	52181004- NonFor	12.0	4311 - Pine, Aspen Mix	Low Density Pole	40	Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
Prescr Specs:		d or buri	n, possible planting						
<u>Other</u> Comm	ents:								
<u>lext</u> Steps:									
6	52181006- NonFor	6.8	4130 - Aspen	Low Density Sapling	10	Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
Prescr Specs:	iption_ mow/bu	rn or pla	nt						
other Comm	ents:								
<u>lext</u> Steps:									
10	52181010- NonFor	8.2	4311 - Pine, Aspen Mix	Low Density Pole	42	Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
Prescr Specs:	iption_ mow/bu	rn or pla	nt						
other Comm	ents:								
<u>lext</u> Steps:									
13 1	NF_52181013- NonFor	1.1	Non-Forested		0	Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
rescr pecs:	iption_ mow or	plant							
<u>)ther</u> comm	ents:								
<u>lext</u> Steps:									
	Total Treatmer reage Propose		44.6						

Acreage Proposed: 244.6

S t a		Gay	ord Mgt. Unit	Table 4		ents Prescrib ng Factor	Compartment: 181 Year of Entry 2013	OF NATURAL	
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Presc Spece	ription <u>s:</u>								
<u>Other</u> Comr									
<u>Next</u> <u>Steps</u>	<u>:</u>								
	ng Factor and No ment Reason	<u>0</u>							
Ac	Total Treatmer creage Propose		0						

Year of	Entry:	2013
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Out of YOE -- Treatments Prescribed with No Limiting Factor

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
Prescription Specs:									
<u>Other</u> Comments: <u>Next</u>									

Steps:

Total Treatment Acreage Proposed:

0

S t	Gaylord	d Mgt. Unit		5 – For	ested Sta	nds Compartment: 181 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42110 - Planted Red Pine	High Density Log	33.1	49	141-170	3rd row thin in 1993. YO 1962.
3	4130 - Aspen	High Density Sapling	25.6	12		
4	4311 - Pine, Aspen Mix	Low Density Pole	12.0	40	1-50	Decent WP regen, patchy BTA and QA; Cherry regen. Sumac.
5	4130 - Aspen	High Density Pole	9.7	30	1-50	
6	4130 - Aspen	Low Density Sapling	6.8	10		
7	4116 - Mixed N. Hardwood - Aspen	High Density Log	501.2	50		
8	42110 - Planted Red Pine	High Density Log	5.9	59	141-170	Western half of stand (running N-S) is all mature red pine. Eastern portion is a mix of red pine and white pine, lower BA (120+/-). Consider thinning Western portion only.
9	4130 - Aspen	High Density Pole	4.7	51	81-110	
10	4311 - Pine, Aspen Mix	Low Density Pole	8.2	42	1-50	
11	4311 - Pine, Aspen Mix	Low Density Pole	6.6	39	1-50	
14	4139 - Aspen, Mixed Deciduous	High Density Sapling	18.2	17		
16	4130 - Aspen	High Density Sapling	10.9	26		Pole BTA spotty and in clumps.
18	4133 - Aspen, Mixed Pine	High Density Sapling	63.8	Uneven Age		Small RO, JP component in SW, just S of the road. Some X log WP, 30+".
19	42100 - Planted White Pine	High Density Log	10.8	60	111-140	KOTAR and soil type out for pine. WP is mature, could be harvested but the stand is barely 10ac. Let it go or thin it out and lump with something in stand 1.
20	4199 - Other Mixed Upland Deciduous	High Density Pole	17.4	53		
21	4130 - Aspen	High Density Pole	13.6	25		
22	4130 - Aspen	High Density Pole	193.1	32		S central arm of 27 is about 10 years older than the north. Larger, older timber in S.

S t	Gaylord Mgt. Unit			5 – Fo	prested Sta	nds Compartment: 181 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4130 - Aspen	High Density Pole	32.6	26		
24	42110 - Planted Red Pine	High Density Log	8.4	49	141-170	
25	4112 - Maple, Beech, Cherry Association	High Density Log	58.3	87	51-80	10 BA swings avg to reach 70.
26	4130 - Aspen	High Density Pole	19.7	50	51-80	Larger AB, SM on knob in N. Mixed fir/pine <2% overstory. Lowland, increased ash (less SM/AB) towards S/SE. Follow topo map.
27	42390 - Mixed Non- Pine Upland Conifers	High Density Pole	8.6	78	81-110	Balsam fir is out competing the cedar. Consider thinning out aspen and fir when the ground is frozen.
28	4130 - Aspen	High Density Sapling	48.7	17		
30	42390 - Mixed Non- Pine Upland Conifers	High Density Pole	21.2	53		
31	4119 - Mixed Northern Hardwoods	High Density Pole	16.8	68		
32	4130 - Aspen	Low Density Sapling	2.8	18		

Gaylord Mgt. Unit

6 – Nonforested Stands

Compartment: 181 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	11 - Low Intensity Urban	1.5	Natural Regen	Low (NonForested)	Comm Site (radio tower). PB, RO, PC, RP (NE corner), sumac present
12	6220 - Alder/willow	4.3	N\A	Unspecified	
13	310 - Herbaceous Openland	1.1	N\A	Unspecified	
15	629 - Mixed non-forested wetland	11.5	N\A	Unspecified	
17	310 - Herbaceous Openland	1.5	N\A	Unspecified	
29	310 - Herbaceous Openland	1.7	N\A	Unspecified	



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.

Stand	SCA Type	SCA Name	Acres	Comments



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.

Conservation Area	а Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.	