

COMPARTMENT REVIEW PRESENTATION

GAYLORD FOREST MANAGEMENT UNIT

COMPARTMENT: 146

ENTRY YEAR: 2012 ACREAGE: 1796 COUNTY: Cheboygan

Revision Date: 05/04/2010

Stand Examiner: Zachary Crew

Legal Description: T33N - R03W Sections 19, 30, and 31

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 hilly that begins to level off the farther east one goes. Some of the slopes in this compartment are as steep as 50 or 60 percent on the west side of the compartment. The soil types in the compartment transition from sandy type soils in the south to more loamy sands and sandy loams in the north. Common series found in this compartment are Kalkaska Sand, Rubicon Sand, Mancelona Sand, Cheboygan Loamy Sand, Emmet Sandy Loam, and Blue Lake Sandy Loam.

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 east. Private parcel ownership is present on the west, south, and south east boundary lines of the compartment.

Unique, Natural Features:

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: This compartment is north of Standard Lake, in the West Branch Sturgeon River watershed, which is within the Cheboygan River watershed. A 100-foot buffer (no clear-cut) should be maintained adjacent to Standard Lake.

Wildlife Habitat Considerations: This compartment consists mainly of upland hardwoods and aspen. Stands 21, 24, 29, 31, and 36 are going to be final harvested to provide early successional habitat that will be utilized by snow shoe hare, white-tailed deer, wild turkey, grouse and the occasional elk. Stands 18, 26, and 28 are prescribed for opening maintenance. The hardwoods of this compartment contained quite a bit of pine marten sign during the winter months.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of an end moraine of coarse-textured glacial till. The glacial drift thickness varies between 400 and 800 feet. The Devonian Antrim Shale subcrops below the glacial drift. The Antrim is quarried for cement products, elsewhere in the state. Gravel pits are located on the moraine deposits less than one mile to the east. This compartment has good gravel potential. The nearest oil and gas production, the Antrim Shale gas play, is located 2 miles to the east. There is potential for the Antrim Shale gas in the area. Most of this compartment is leased for oil and gas development.

Vehicle Access: There are 2 seasonal county roads that provide access to this compartment. One of those is Standard Lake Road coming north from Thumb Lake road. The other is Wilderness Road which comes into the compartment from the east. Both of these roads are used as part of the Snowmobile trail system (trail # 765). There are also several two tracks that run throughout the compartment that could be expanded.

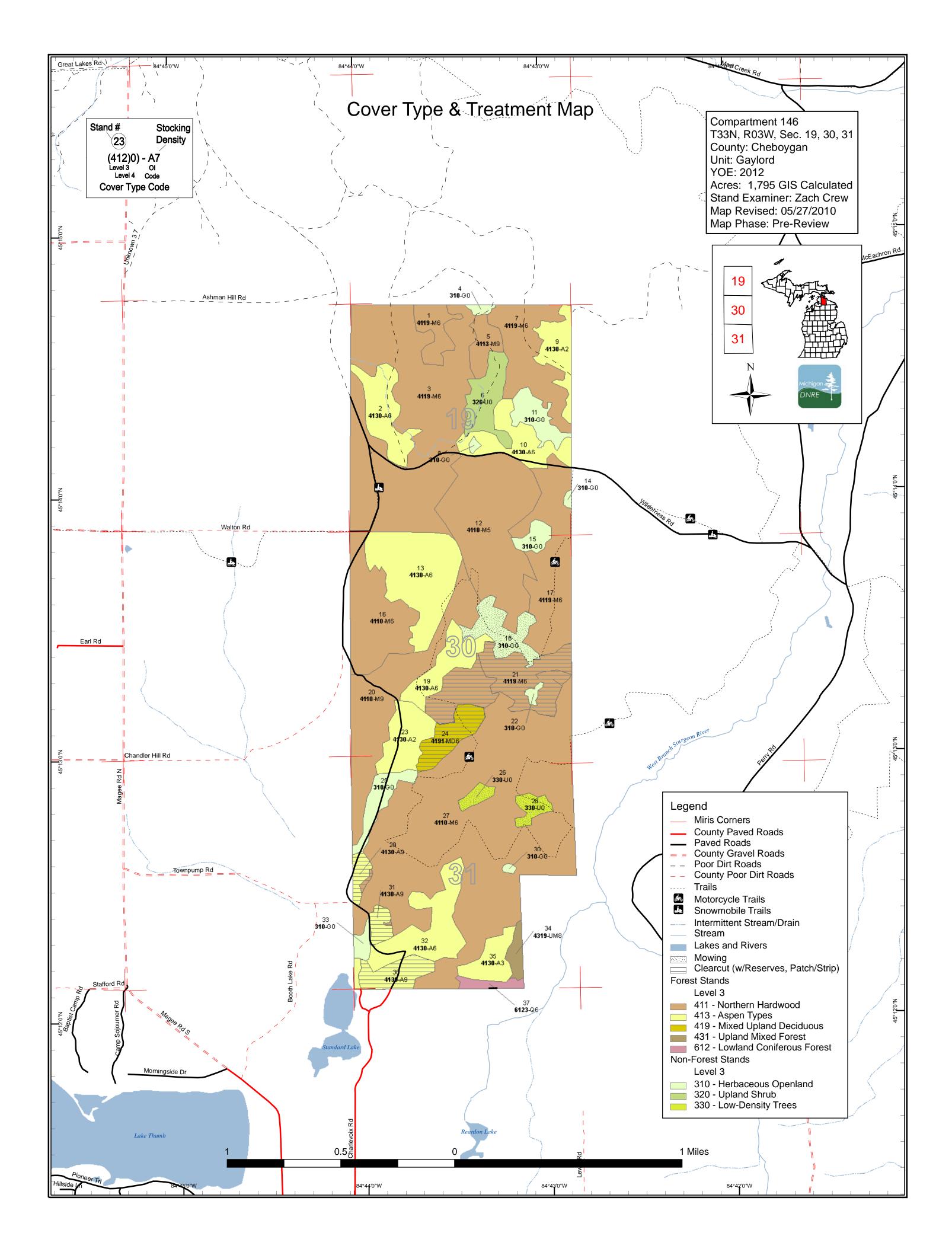
Survey Needs: There does not appear to be any survey assistance required in this Compartment. Only one of the proposed treatments lies adjacent to a private parcel.

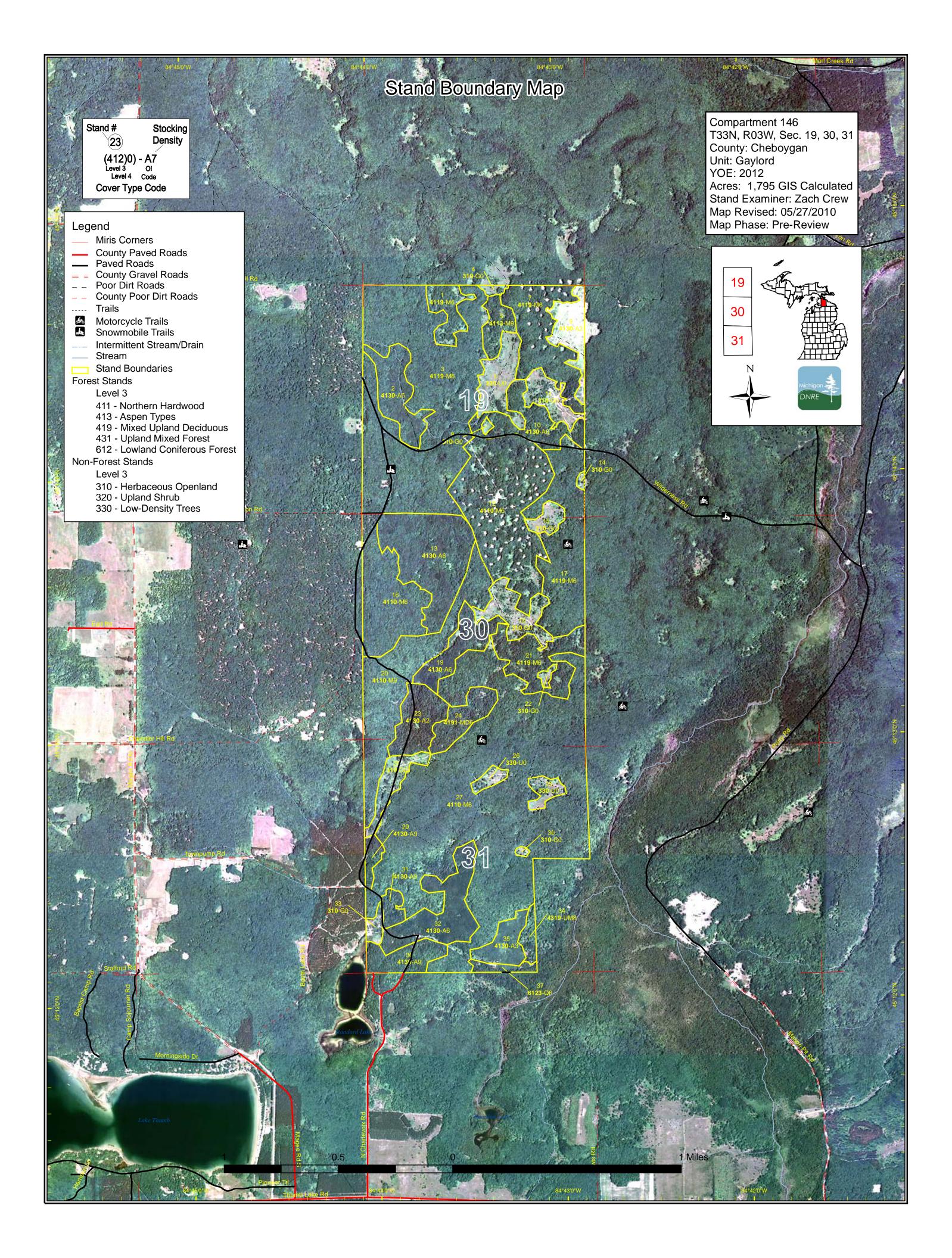
Recreational Facilities and Opportunities: As mentioned above Snowmobile Trail # 765 runs east and west through the northern third of the compartment. There is also a Motorcycle Trail that runs a loop through the south half of the compartment.

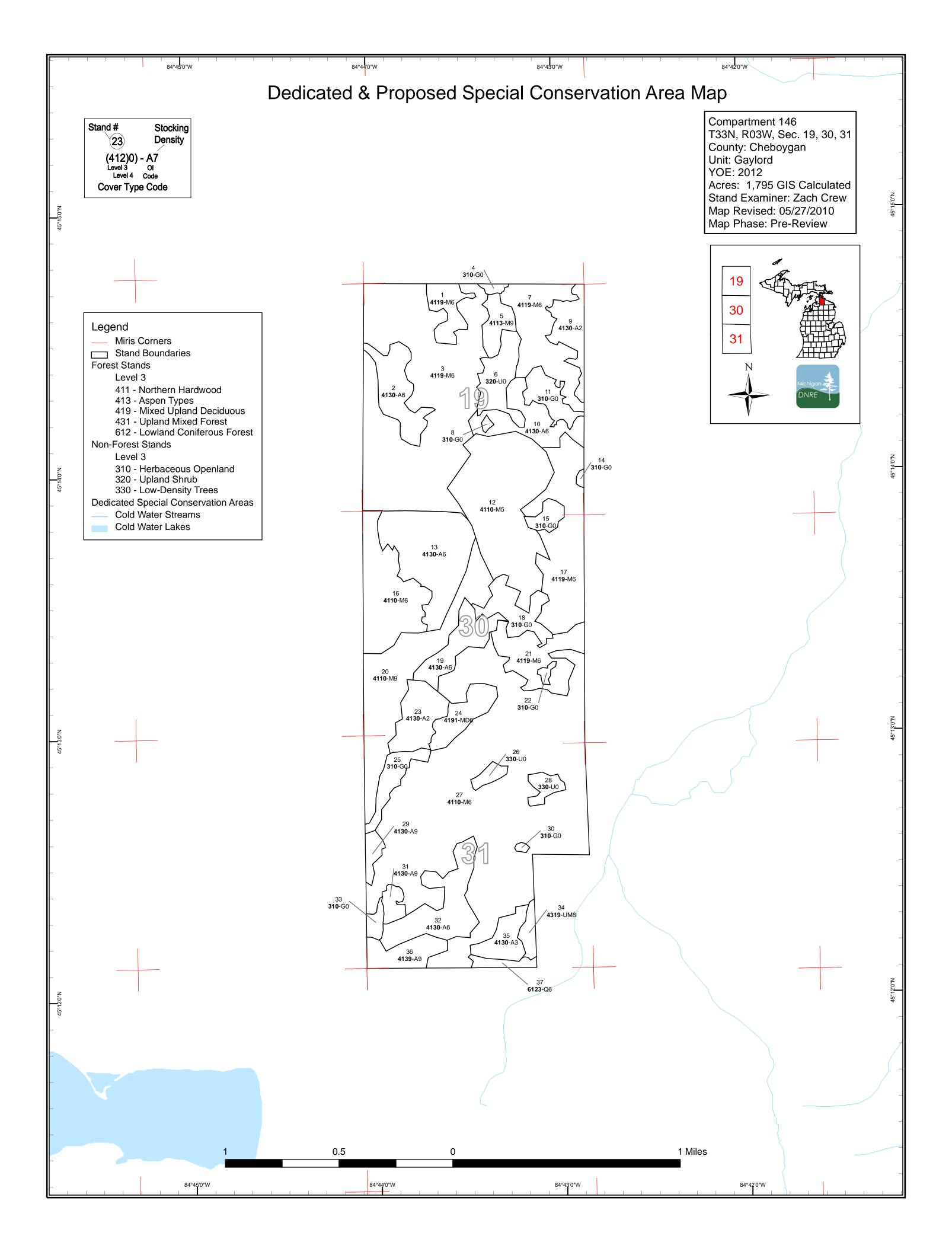
Fire Protection:

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







Gaylord Mgt. Unit

(Level 3 Cover Type)

Compartment 146 Year of Entry 2012



							Age	Class									
	¥o ^c	Do Baron July		0,0	2.5.		D. C. C.	\$ 1	800	12 /	80 6	800	0,70,	70,73	No In		**************************************
Aspen Types	0	58	21	122	124	41	0	0	0	0	0	0	0	0	0	366	
Herbaceous Openland	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92]
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	7	0	0	0	0	0	0	0	0	0	0	7]
Mixed Upland Deciduous	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	25]
Northern Hardwood	0	0	0	0	0	36	293	923	0	0	0	0	0	0	0	1252]
Upland Mixed Forest	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8]
Upland Shrub	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30]
Total	137	58	21	122	140	102	293	923	0	0	0	0	0	0	0	1796	1



Table 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit Year of Entry 2012

Compartment 146
Total Compartment Acres: 1796

Acres by Treatment Type

Commercial Harvest - 145 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Opening Maintenance - 44 Tree Seeding - 0 Pesticide - 0

Cover Type by Harvest Method

	Governing by Harvest Method								
		/	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 10 10 10 10 10 10 10 10 10 10 10 10 1	No. No. No.	O O O	on in the second		S. S
Aspen		40	0	0	0	0	0	40	
Mixed Upland De	ciduous	25	0	0	0	0	0	25	
Northern Hardwo	ood	80	0	0	0	0	0	80	
	Total	145	0	0	0	0	0	145	

Table 3 -- Treatments Prescribed Compartment: 146 Gaylord Mgt. Unit with No Limiting Factor Year of Entry 2012 s t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment** Cover Type n **Approval** Name CoverType Method Objective Status d Density Age Type High Density Pole 21 52146021-Cut 49.2 4119 - Mixed 62 Harvest Clearcut Aspen, Mixed Cmpt. Review Northern Hardwoods Deciduous Proposal Prescription Clearcut all species. No retention is to be left as agreed upon in compartment review. Specs: Other Leave opening in the middle of stand clear of equipment or any other type of operations. Comments: Continue to monitor regeneration on site, stand 22 is to remain an opening. <u>Next</u> Steps: 52146024-Cut 4191 - Mixed High Density Pole Clearcut with Aspen, Mixed Cmpt. Review 24.7 Harvest **Upland Deciduous** Reserves Deciduous Proposal with Conifer Prescription Clearcut Stand to promote aspen regeneration. Specs: Be sure to buffer motorcycle trail through the stand. Do so by leaving patches along trail. Other | Comments: Next Continue to monitor regeneration on site Steps: 52146027-Cut 30.8 4110 - Sugar Maple High Density Pole Harvest Clearcut Aspen, Mixed Cmpt. Review Association Deciduous Proposal Prescription Clearcut Area in NW part of stand to connect clearcuts in stands 21 and 24, NO RETENTION Specs: The objective of connecting these two stands is to contribute to wildlife value in a number of ways and provide an area that can be managed in Other_ rotation with the other aspen stands in the compartment to provide longterm wildlife benefits. Comments: Monitor regeneration on site. Next Steps: 29 52146029-Cut 9.1 4130 - Aspen High Density Log 43 Harvest Clearcut Aspen Cmpt. Review . Proposal Prescription Clearcut all species present in sale area. Leave White Pine for structure and species diversity. Specs: Other Topography may affect the total sale area. Comments: Per work instructions check regeneration to determine effectiveness of treatment. Next Steps: Clearcut 52146031-Cut Cmpt. Review 31 90 4130 - Aspen High Density Log 46 Harvest Aspen Proposal Prescription Clearcut all species. Specs: Other_ Topography may affect timber sale boundary Comments: Next Per work instructions come back to stand to determine effectiveness of regeneration. Steps: 52146036-Cut 22.1 36 4139 - Aspen, High Density Log Harvest Clearcut with Cmpt. Review 45 Aspen Mixed Deciduous Reserves Proposal Prescription Clearcut all species with the exception of Red Oak and White Pine. Specs: May lose acres in treatment area due to proximity to the lake, as well as topography. Other | Comments: Next Continue to monitor regeneration after the completion of the treatment.

Steps:

S t		Gay	vlord Mgt. Unit			ments Prescrik niting Factor	ped	Compartment: 146 Year of Entry 2012	Michigan DNRE
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	NF_52146018- NonFor	28.5	Unspecified		0	Non-Forest Management	Mowing	Mixed Upland Herbaceous	Cmpt. Review Proposal
Pres Spec	 .	Maintane	nce to preserve diver	sity of landscape					
Othe Com	e <u>r</u> iments:								
Next Step		treatment	t to note if desired res	sult is achieved					
26	NF_52146026- NonFor	6.2	Unspecified		0	Non-Forest Management	Mowing	Mixed Upland Herbaceous	Cmpt. Review Proposal
Pres Spec		nowing and	d brushcutting to con-	duct Opening Ma	intanence				
Othe Com	er iments:								
Next Step		treatment	to verify the results						
28	NF_52146028- NonFor	9.3	Unspecified		0	Non-Forest Management	Mowing	Mixed Upland Herbaceous	Cmpt. Review Proposal
Pres Spec		nowing and	d brushcutting for ope	ening maintanend	ce				
Othe Com	e <u>r</u> iments:								
Next Step		treatment	to verify effectiveness	5					

Total Treatment

Acreage Proposed: 188.9

Gaylord Mgt. Unit Table 4 -- Treatments Prescribed with a Limiting Factor

Size

Density

Treatment

Type

Stand

Age

Treatment

Method

Compartment: 146 Year of Entry 2012

Cover Type

Objective

DNRE Approval

Status

Prescription

Specs:

n

Other Comment:

Next Steps:

<u>Limiting Factor and No</u> <u>Treatment Reason</u>

Treatment

Name

Acres

Stage1

CoverType

0

Total Treatment Acreage Proposed:

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S t	Gaylord	d Mgt. Unit			orested Sta	Michigan S
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	High Density Pole	19.8	47	81-110	Scruffy Hardwood. Basswood dominant. Heavy red maple understory.
2	4130 - Aspen	High Density Pole	37.7	23	51-80	Good vigorous aspen regeneration, nice stand
3	4119 - Mixed Northern Hardwoods	High Density Pole	253.9	65	81-110	Lots a variability inside stand boundaries, maybe split stand into several stands? (decided not to split stand due to not a lot of variability in cover type, just density)
5	4113 - R.Maple, Conifer	High Density Log	16.3	43	51-80	Junk.
7	4119 - Mixed Northern Hardwoods	High Density Pole	63.2	64	81-110	Openings put in stand to plant acorns and white pine according to previous OI. Doesn't appear to have been an effective treatment, no visible white pine or oak regeneration present.
9	4130 - Aspen	Medium Density	25.2	7		Very young regenerating aspen stand
10	4130 - Aspen	High Density Pole	38.8	35	51-80	Scrubby Mix, low quality stems.
12	4110 - Sugar Maple Association	Medium Density Pole	134.1	57	81-110	Patch Clearcuts from a previous treatment? Doesn't look like much tree regen in gaps (mostly raspberry and blackberry)
13	4130 - Aspen	High Density Pole	84.5	23	51-80	Split from stand 23, aspen dominated, looks like a sugar maple site, KOTAR supports this, lots of sugar maple saplings
16	4110 - Sugar Maple Association	High Density Pole	70.3	53	51-80	Young hdwd stand, so so quality, mix of aspen, lots of sugar maple saplings
17	4119 - Mixed Northern Hardwoods	High Density Pole	88.8	54	81-110	
19	4130 - Aspen	High Density Pole	31.1	33	51-80	Possible Aspen Clearcut, lots of defect in Aspen trees. More white pine in North end, possibly leave White Pine?
20	4110 - Sugar Maple Association	High Density Log	98.9	61	81-110	Come back and look at possible HDWD thinning in part of the stand.
21	4119 - Mixed Northern Hardwoods	High Density Pole	45.6	62	81-110	Maybe clear cut and plant to red pine. Stand falls under the AFOCa and AFO/AFOCa Kotar type, and the soil is part of the Mancelona Series. Pine in adjacent compartment on similiar site a SI = 60
23	4130 - Aspen	Medium Density	33.1	2		Former R9 stand. RP left for structure and diversity, returning to a hardwood/aspen as per previous treatment objectives.

5 - Forested Stands Compartment: 146 Gaylord Mgt. Unit s Year of Entry: 2012 **Inventory Method: IFMAP** t а Level 4 Size Stand BA General n **Cover Type** Density Acres Range Comments: Age d 4191 - Mixed Upland **High Density** 42 81-110 24 24.6 According to soil map, soil is part of the Kalkaska Series, and Deciduous with Conifer Pole Kotar types are a mix of AFO/AFOCA, and PArVVb/AFO, SI = for red pine on an adjacent stand of similiar soils and Kotar types is 60 High Density 4110 - Sugar Maple 27 461.1 61 81-110 Basal Area is incredibly variable, few scattered small (less than Association Pole 2.5 acre) pockets of nice timber where basal area was as high as 150, generally though very poor quality timber. 4130 - Aspen **High Density** 29 7.9 43 111-140 Log 4130 - Aspen **High Density** 8.7 46 81-110 Large diameter mature aspen trees 31 Log 4130 - Aspen **High Density** 54.1 33 81-110 Lots of Ironwood understory in north part of stand. Lots of 32 Pole defect on trees. Junky aspen, clearcut next entry possibly? 4319 - Mixed Upland Medium 8.2 37 51-80 Upland Spruce/Fir Dominate, some small openings, a mixture of 34 Forest Density Log decadent Basswood and Pople present, as well as some red

13

45

37

81-110

111-140

High Density

Sapling

High Density

Log

High Density

Pole

20.7

24.4

7.3

4130 - Aspen

4139 - Aspen, Mixed

Deciduous

6123 - Lowland Fir

35

36

37

maple poles and saplings

Recent Clearcut, regen is coming along very well, bigger the

farther east in the stand you go

Gaylord Mgt. Unit

6 - Nonforested Stands Inventory Method: IFMAP

Compartment: 146 Year of Entry: 2012



Stand	Cover Type	Acres	Gen Cmts:
4	310 - Herbaceous Openland	2.8	
6	320 - Upland Shrub	29.8	
8	310 - Herbaceous Openland	1.4	
11	3105 - Mixed Upland Herbaceous	19.7	
14	310 - Herbaceous Openland	1.4	
15	310 - Herbaceous Openland	9.6	
18	310 - Herbaceous Openland	28.5	
22	310 - Herbaceous Openland	2.5	
25	310 - Herbaceous Openland	18.7	
26	3301 - Low Density Deciduous Tree	6.2	
28	330 - Low-Density Trees	9.3	
30	310 - Herbaceous Openland	1.3	
33	310 - Herbaceous Openland	6.0	Informal camping area not maintained by the DNR but commonly used next to Standard Lake.

Gaylord Mgt. Unit Compartment: 146

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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

Gaylord Mgt. Unit Compartment: 146
Year of Entry 2012





* 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	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	stocked trout populations and those of other cold year to year. Coldwater streams in Michigan typic	s. Such streams are established by Director's action and