

### COMPARTMENT REVIEW PRESENTATION

### GAYLORD FOREST MANAGEMENT UNIT

**COMPARTMENT: 22** 

ENTRY YEAR: 2013 ACREAGE: 2,203 COUNTY: Otsego

**Revision Date:** 04/01/2011

Stand Examiner: Ric Barta

**Legal Description:** T29N R04W Sec. 6, 7, 18, 19, 30-32

**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 low, level wetland areas are underlain with Rifle Peat-Carbondale Muck Association. The upland areas are dominated by Rubicon-Grayling sand everywhere except the east half of Section 32 which consists of Roselawn Sand.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is the eastern edge of a vast tract of state land, the Deward Area. East of it is Wilderness Valley, a golf course and associated private properties. Immediately to the north lies Lakes of the North, a residential development. Some of the private holdings contain pine plantations while the remainder is scrubland. Deer hunting is evident here, as is camping and fishing along the Manistee river. Snowmobilers take advantage of the semi-open nature of the compartment and freely travel throughout it with little need for trails. A major gas pipeline traverses the entire north/south length of the compartment.

Unique, Natural Features: None noted

**Archeological, Historical, and Cultural Features:** Railroad grades from the logging era can be found throughout the compartment.

**Special Management Designations or Considerations:** Deward Management Area and Manistee Natural River. Restrictions on access and off-road travel have been put in place in the form of a Director's Order.

Watershed and Fisheries Considerations: The Upper Manistee River in Compartment 22 is a designated trout stream as well as a state designated Natural River, so Natural Rivers guidelines should be adhered to. Since this river is of very high quality, its trout population is supported through natural reproduction and is not stocked. To keep trout streams in good condition it is important to limit sediment input, maintain riparian shading, and encourage woody debris recruitment. Restricting cutting to outside of the appropriate buffers will help to maintain the temperatures and habitat required to keep the river healthy. As always, the appropriate BMP's should be applied when working in the proximity of surface water.

Wildlife Habitat Considerations: This compartment consists of a mix of upland and wetland's associated with the northern reaches of the Manistee River. The Manistee River corridor is used by waterfowl, numerous furbearers, and a variety of amphibian and songbird species. The upland areas of this compartment consist mainly of red and jack pine and aspen which are used by white-tailed deer, wild turkey, woodcock and grouse. There is a considerable amount of mature planted jack pine along the river that are going to be treated with a variety of methods to encourage native plant communities.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 1,000 feet. Beneath the glacial drift is the Coldwater Shale. The Coldwater does not have an economic use. The nearest gravel pit is located one mile to the east (Section 17), and gravel potential appears to be good. Most of the State land in the compartment has been leased for oil and gas development. The Antrim Shale has not been developed on the State land for the most part. Production has been developed on private acreage to the east and gas is most likely being drained from under the State land. Additional oil and gas potential from the Guelph (Niagaran) reef trend is possible.

**Vehicle Access:** Director's Order II-80-5 restricts access and prohibits off-road traffic in that part of the compartment bounded by Deward road, Mancelona Road and Manistee River Road.

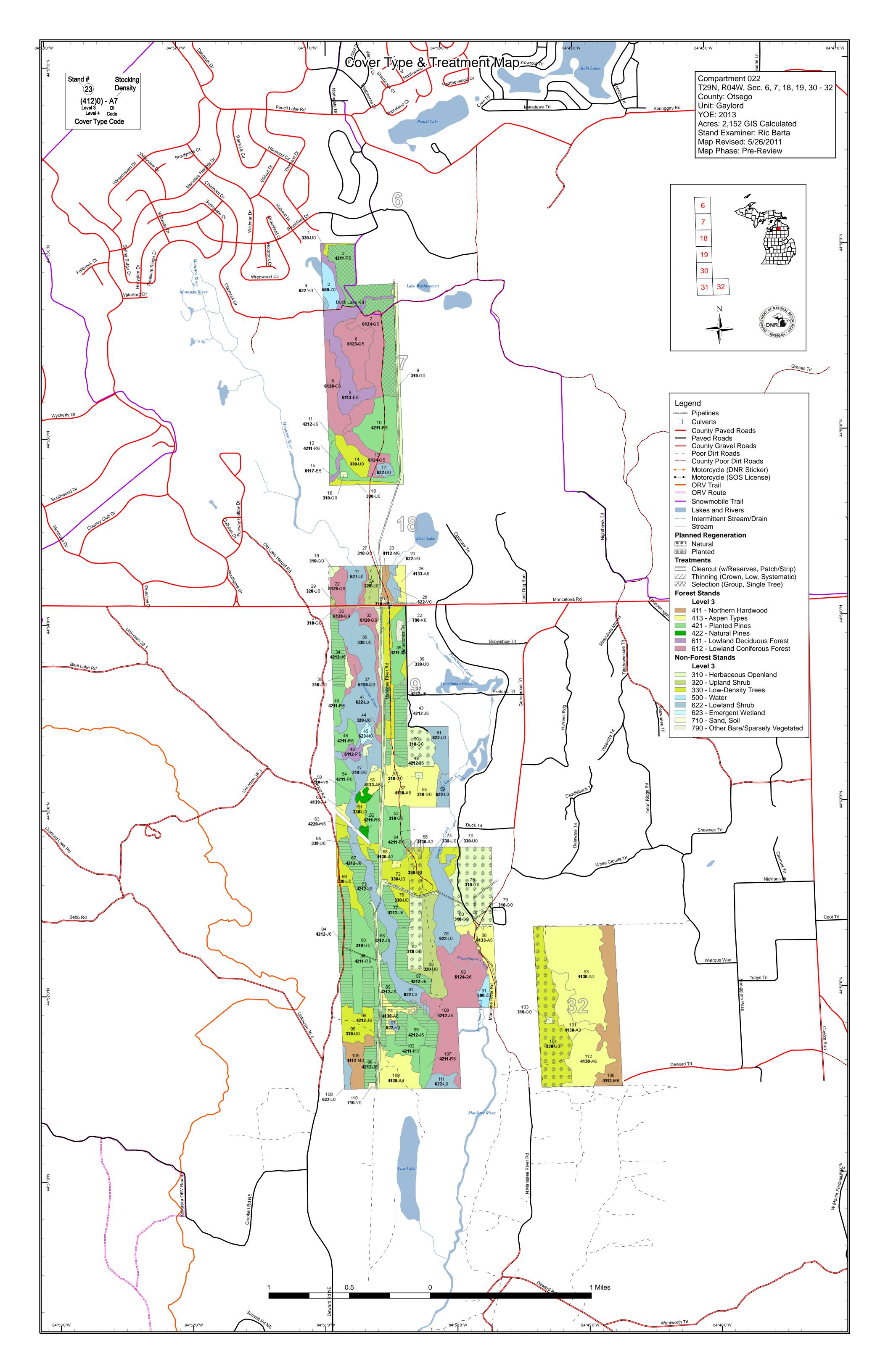
Survey Needs: None are expected.

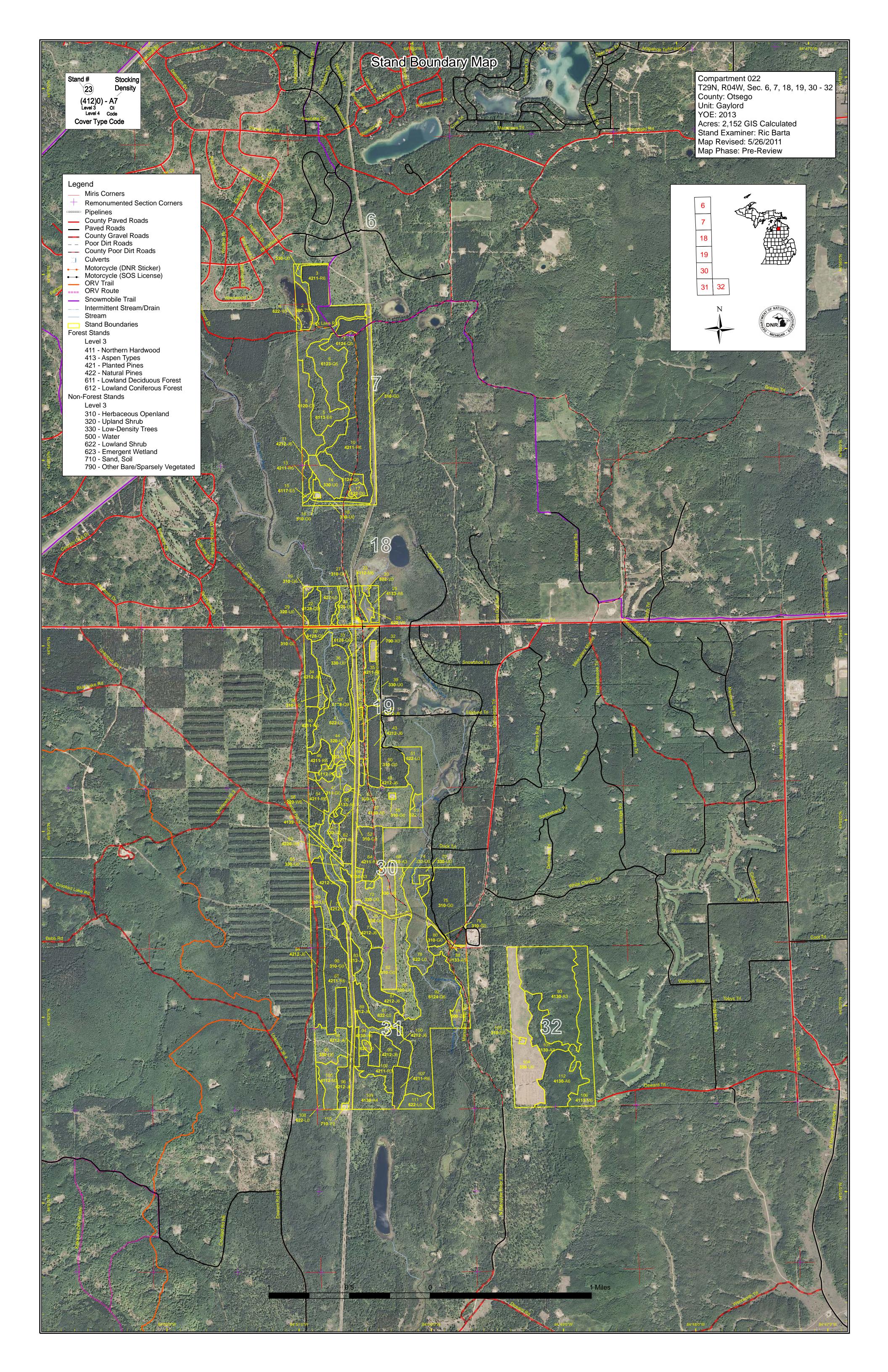
**Recreational Facilities and Opportunities:** This compartment has a segment of snowmobile trail in Sections 6 and 7.

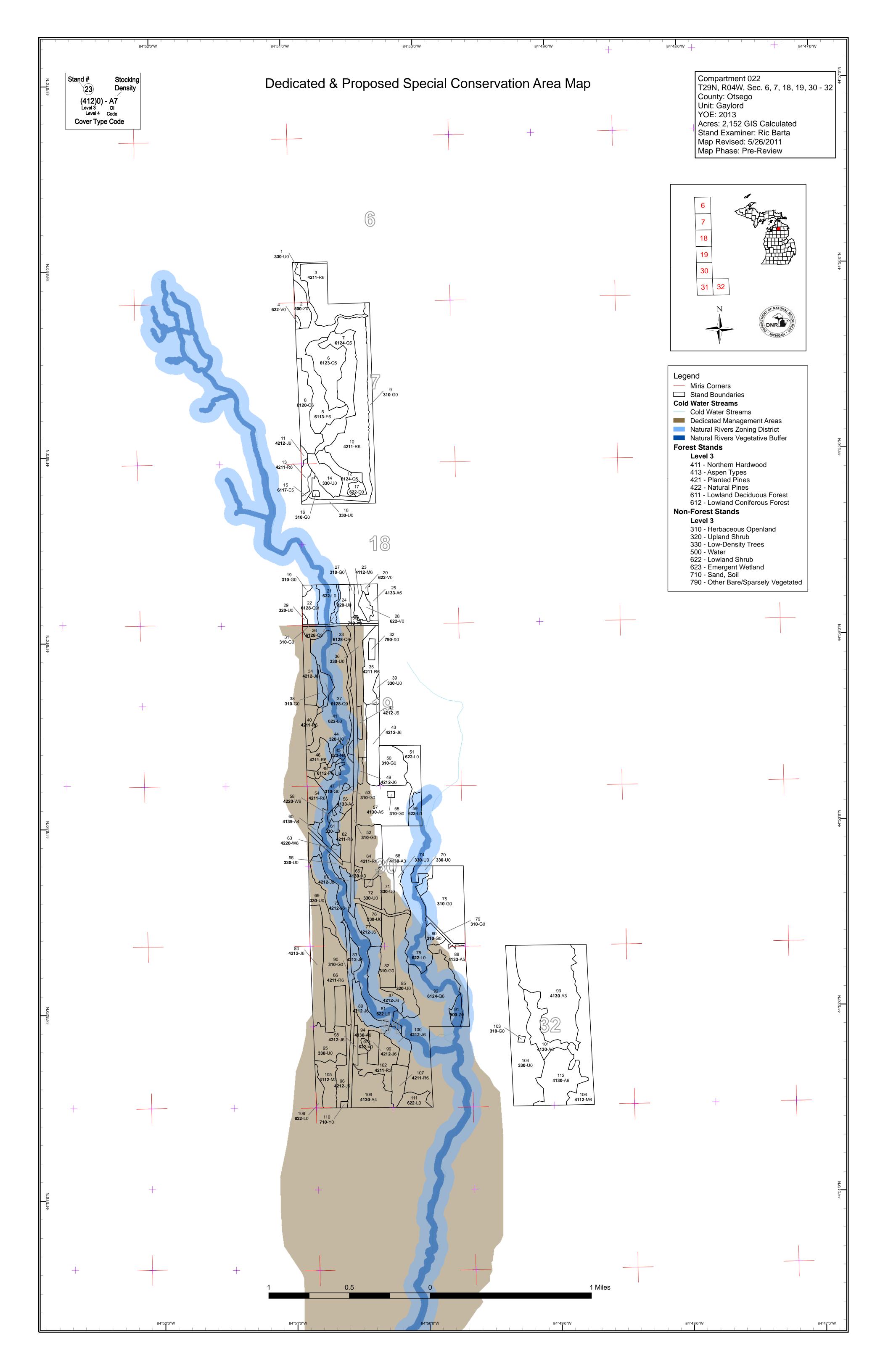
**Fire Protection:** No foreseen problems

### **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







Compartment 022 Year of Entry 2013

Gaylord Mgt. Unit
Richard Barta : Examiner



### Age Class

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Aspen	0	4	110	45	124	0	31	0	11	0	0	0	0	0	0	324	
Bare/Sparsely Vegetated	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Cedar	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	28	
Herbaceous Openland	217	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217	
Jack Pine	0	0	0	0	0	0	231	0	0	0	0	0	0	0	0	231	
Low-Density Trees	248	0	0	0	0	0	0	0	0	0	0	0	0	0	0	248	
Lowland Aspen/Balsam Poplar	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6	
Lowland Conifers	0	0	0	0	16	0	0	0	108	122	8	0	0	0	0	254	
Lowland Deciduous	0	0	0	0	3	57	0	0	0	0	0	0	0	0	0	60	
Lowland Shrub	263	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263	
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Northern Hardwood	0	21	0	0	0	6	0	0	59	0	0	0	0	0	0	85	
Red Pine	0	0	0	139	0	49	145	0	0	0	0	0	0	0	0	333	
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Upland Shrub	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	
Water	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	
White Pine	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6	
Total	824	24	110	184	149	112	407	0	206	128	8	0	0	0	0	2152	



### **Table 2 – Proposed Treatment Summaries**

# Gaylord Mgt. Unit

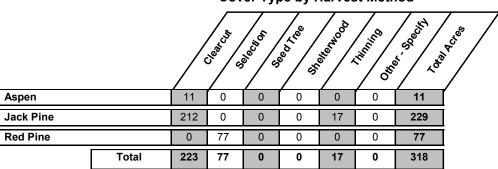
Compartment 022 Year of Entry 2013 **Total Compartment Acres: 2152** 

### **Acres by Treatment Type**

Commercial Harvest - 318 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

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

### **Cover Type by Harvest Method**



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s t	t .					eatments Pre Limiting Fac		Compartment: 022 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
3	52022003-Cut	41.7	42110 - Planted Red Pine	High Density Pole	54	Harvest	Single Tree Selection	42110 - Planted Red Pine	Cmpt. Review Proposal
Preso Spec	•	thin no Io	wer than 120 BA. No	o retention.					
Other Comr	<u>r</u> ments:								
Next Steps	<u>s:</u>								
10	52022010-Cut	35.8	42110 - Planted Red Pine	High Density Pole	53	Harvest	Single Tree Selection	42110 - Planted Red Pine	Cmpt. Review Proposal
Preso Spec		thin no lo	wer than 120 BA. No	o retention.					
Other Comr	Only trea ments:	at the nor	th half of the stand.						
Next Steps	<u>3:</u>								
34	52022034-Cut	19.5	42120 - Planted Jack Pine	High Density Pole	51	Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal
Preso Spec		. Leave i	retention along wetla	nd.					
Other Comr	<u>r</u> ments:								
Next Steps		der mana	gement objective du	ring discussions on (	Compar	tment 64 in 2017	7YOE.		
42	52022042-Cut	3.9	42120 - Planted Jack Pine	High Density Pole	51	Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal
Preso Spec		12, 43 and	d 49 were originally o	ne plantation. Leav	e enoug	h of this stand to	o serve as retention for a	Il three, with no retention	on on 43 and 49.
Other Comr	<u>r</u> Chipping <u>ments:</u>	is prefer	able.						
Next Steps		red pine.							
43	52022043-Cut	25.3	42120 - Planted Jack Pine	High Density Pole	52	Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal

Prescription Specs:

Retention is in Stand 42. Chipping is preferable.

Other Comments:

Replant red pine.

Next Steps:

s t	t			-	atments Pre Limiting Fac		Compartment: 022 Year of Entry 2013	DNR DNR		
a n d		ment me	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
49	520220	)49-Cut	3.2	42120 - Planted Jack Pine	High Density Pole	51	Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal
Preso	cription s:									
Othe Com	<u>r</u> ments:	Retention	n is in Sta	and 42. Chipping is	preferable.					
Next Step	<u>s:</u>	Replant	red pine.							
67	520220	)67-Cut	4.9	42120 - Planted Jack Pine	High Density Pole	52	Harvest	Clearcut with Reserves	3205 - Mixed Upland Shrub	Cmpt. Review Proposal
Preso		Clear cu	t. Retent	ion along the wetlan	d.					
Othe Com	<u>r</u> ments:									
Next Step		Goal is n	onforesto	ed, but will accept na	atural regeneration a	s well.				
73	520220	)73-Cut	16.1	42120 - Planted Jack Pine	High Density Pole	52	Harvest	Clearcut with Reserves	3205 - Mixed Upland Shrub	Cmpt. Review Proposal
Preso Spec	<u>s:</u>			05/23/2011 commer	its:					
Othe Com	<u>r</u> ments:	Must be	chipped 1	to facilitate burn.						
Next Step		Possible	prescrib	ed burn to maintain	opening. Natural Riv	er buffe	r will be left to re	evegetate naturally and t	nen left untreated hence	eforth.
73		2073- south	10.9	42120 - Planted Jack Pine	High Density Pole	52	Harvest	Systematic Thinning	42141 - Planted Mixed Pine, Mixed Deciduous	Cmpt. Review Proposal
Preso		Remove	50%.							
Othe Com	<u>r</u> ments:									
Next		Underpla	ant entire	stand with white pin	e and red oak while	minimizi	ng site prep (co	ntainerized stock?).		

Steps:

Cmpt. Review Proposal 77 52022077-Cut 13.1 42120 - Planted High Density Pole 52 Harvest Clearcut with 3205 - Mixed Upland Jack Pine Reserves Shrub

Prescription Clear cut with retention along wetland.

Specs:

Other Comments:

Burn the northern 2/3rds with stand 76. <u>Next</u>

Steps:

Compartment: 022

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S t		Gá	aylord Mgt. Unit			atments Pre Limiting Fac		Compartment: 022 Year of Entry 2013	DNR DURCH	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
83	52022083-Cut	6.5	42120 - Planted Jack Pine	High Density Pole	52	Harvest	Systematic Thinning	42141 - Planted Mixed Pine, Mixed Deciduous	Cmpt. Review Proposal	
Preso Spec	cription Remove s:	50%.								
Other Com	nents:									
Next Steps		ant entire	e stand with white pine	e and red oak while	minimizi	ng site prep (cor	ntainerized stock?).			
84	52022084-Cut	36.6	42120 - Planted Jack Pine	High Density Pole	51	Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal	
Preso Spec	<del></del>	t w/reser	rves. Retention west	of road and north of	area to	be planted.				
Other Comr	_ ments:									
Next Steps		red pine	adjacent to stand 86.	Manage for upland	l brush a	idjacent to stand	69.			
87	52022087-Cut	22.9	42120 - Planted Jack Pine	High Density Pole	52	Harvest	Clearcut with Reserves	3205 - Mixed Upland Shrub	Cmpt. Review Proposal	
Preso Spec		t with ret	tention along the wetla	and.						
Other Com	- - ments:									
Next Steps		south h	alf of stand (south of s	stand 82) with stand	85 to th	e east.				
89	52022089-Cut north	10.5	42120 - Planted Jack Pine	High Density Pole	52	Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal	
Preso Spec		t with ret	tention along wetland.							
Other Comm	nents:									
Next Steps		a mix of	white pine, red pine a	nd red oak.						
89	52022089- Cut_south	3.6	42120 - Planted Jack Pine	High Density Pole	52	Harvest	Clearcut with Reserves	4132 - Aspen, Jack Pine	Cmpt. Review Proposal	
Preso Spec		t with ret	tention along wetland.							
Other	- - ments:									

Comments: <u>Next</u>

Steps:

Allow to naturally regenerate to some mix of aspen, mixed deciduous and pine.

Compartment: 022 Gaylord Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2013 s t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment** Cover Type **Approval** n CoverType Density Method Objective Status Name Age Type d 94 52022094-Cut 10.9 4130 - Aspen High Density Pole 72 Harvest Clearcut with 4130 - Aspen Cmpt. Review Reserves Proposal Prescription Clear cut with retention at the east end. Specs: Other\_ Comments: <u>Next</u> Steps: 96 52022096-Cut 26.4 42120 - Planted High Density Pole 52 Harvest Clearcut with 42110 - Planted Red Cmpt. Review Jack Pine Reserves Pine Proposal Prescription Clear cut with retention near center of stand around the aspen clone. Specs: Other\_ Comments: Replant red pine north of stand 95. Management objective is upland brush east of 95. Natural regeneration of jack pine and mixed deciduous <u>Next</u> adjacent to stand 105. Steps: 52022098-Cut 42120 - Planted High Density Pole Clearcut with Cmpt. Review 98 4.3 Harvest 4132 - Aspen, Jack Jack Pine Reserves Pine Proposal Prescription Final harvest. Specs: Retention is in the adjacent stand. This should have been a multi-part stand, so this would qualify. Other\_ Comments: <u>Next</u> Steps: 52022099-Cut 8.5 42120 - Planted High Density Pole 4132 - Aspen, Jack 99 52 Harvest Clearcut with Cmpt. Review Jack Pine Reserves Pine Proposal Prescription Clear cut with retention along bog at west edge. Specs: Other\_ Comments: Natural regeneration to jack pine and aspen w/mixed deciduous. <u>Next</u> Steps:

100

12.9 Jack Pine

42120 - Planted

Prescription Clear cut with retention along the wetland.

Specs:

**Other** Comments:

**Next** Replant red pine. No site prep or planting inside of the 175' Natural River buffer with the goal of natural regeneration for that area.

50

Harvest

Clearcut with

Reserves

High Density Pole

Steps:

**Total Treatment** 

52022100-Cut

**Acreage Proposed:** 317.7 Cmpt. Review

Proposal

42111 - Planted Red

Pine, Mixed

Deciduous

S t a		Gay	lord Mgt. Unit	Table 4		ents Prescrib ng Factor	Compartment: 022 Year of Entry 2013	DNR DNR	
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Preso Spec	cription s:								
Other Com	-								
Next Steps	<u>s:</u>								
	ng Factor and N ment Reason	0							

Total Treatment Acreage Proposed:

0

## Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2013

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

**Total Treatment** 

Comments:
Next
Steps:

Acreage Proposed:

s t	Gaylord	d Mgt. Unit		5 – Fo	orested Sta	nds Compartment: 022 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	42110 - Planted Red Pine	High Density Pole	41.7	54	171-200	
5	6113 - Lowland Maple	High Density Pole	57.4	47	81-110	Erratic stocking. Wet. Form is weak.
6	6123 - Lowland Fir	Medium Density Pole	36.8	75	51-80	Stocking is patchy.
7	6124 - Lowland Spruce- Fir	Medium Density Pole	44.5	73	51-80	Wet.
8	6120 - Lowland Cedar	High Density Pole	28.4	79	111-140	Tag alder is patchy.
10	42110 - Planted Red Pine	High Density Pole	94.4	53	141-170	Doubles are common.
11	42120 - Planted Jack Pine	High Density Pole	2.0	52	51-80	Natural River protocol may apply. This small acreage should be managed with the rest of this plantation, which lies in the adjacent compartment.
12	6124 - Lowland Spruce- Fir	Medium Density Pole	15.8	37	51-80	
13	42110 - Planted Red Pine	High Density Pole	6.0	49	111-140	Natural River protocol may apply.
15	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	3.1	33	1-50	
22	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	12.4	80	81-110	
23	4112 - Maple, Beech, Cherry Association	High Density Pole	6.0	42	51-80	One of only two hardwood stands in the compartment.
<u></u> 25	4133 - Aspen, Mixed Pine	High Density Pole	7.4	32		
26	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	3.1	70	81-110	
33	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	23.8	79	51-80	
34	42120 - Planted Jack Pine	High Density Pole	19.5	51	111-140	Natural River is nearby.
35	42110 - Planted Red Pine	High Density Pole	22.1	28	111-140	

Gaylord Mgt. Unit				orested Sta	nds Compartment: 022 Year of Entry: 2013
Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	8.0	97	51-80	
42110 - Planted Red Pine	High Density Pole	9.1	51	141-170	Stocking is erratic. Canopy is slightly broken.
42120 - Planted Jack Pine	High Density Pole	3.9	51	81-110	
42120 - Planted Jack Pine	High Density Pole	25.3	52	81-110	
42110 - Planted Red Pine	High Density Pole	12.4	49	141-170	
6112 - Lowland Aspen	High Density Pole	5.8	31	51-80	Seems transitional between dry and wet; difficult to tell in winter.
42120 - Planted Jack Pine	High Density Pole	3.2	51	81-110	
42110 - Planted Red Pine	High Density Pole	17.6	49	81-110	
4133 - Aspen, Mixed Pine	High Density Pole	7.6	39	51-80	
4130 - Aspen	Medium Density Pole	54.4	39	1-50	
42200 - Natural White Pine	High Density Pole	3.8	80	81-110	Stand consists of poles surrounding a few dominant sawlogs.  Dominant trees too large to bore accurately; age is estimated.
4139 - Aspen, Mixed Deciduous	Low Density Pole	2.7	31	1-50	
42110 - Planted Red Pine	High Density Pole	14.1	28	51-80	
42200 - Natural White Pine	High Density Pole	2.1	80	111-140	
42110 - Planted Red Pine	High Density Pole	32.7	28	51-80	
4130 - Aspen	High Density Sapling	2.4	6		Recently clearcut.
42120 - Planted Jack Pine	High Density Pole	4.9	52	81-110	•
4130 - Aspen	High Density Sapling	1.5	6		Recently clearcut.
	6128 - Lowland Coniferous, Mixed Deciduous  42110 - Planted Red Pine  42120 - Planted Jack Pine  42110 - Planted Red Pine  6112 - Lowland Aspen  42120 - Planted Jack Pine  4110 - Planted Red Pine  42110 - Planted Red Pine  4133 - Aspen, Mixed Pine  4130 - Aspen  42200 - Natural White Pine  4139 - Aspen, Mixed Deciduous  42110 - Planted Red Pine  4130 - Planted Red Pine  4130 - Aspen  42110 - Planted Red Pine  4210 - Planted Red Pine  4210 - Planted Red Pine  4210 - Planted Red Pine  42110 - Planted Red Pine	Cover TypeDensity6128 - Lowland Coniferous, Mixed DeciduousHigh Density Pole42110 - Planted Red PineHigh Density Pole42120 - Planted Jack PineHigh Density Pole42110 - Planted Red PineHigh Density Pole42110 - Planted Red PineHigh Density Pole42120 - Planted Jack PineHigh Density Pole42110 - Planted Red PineHigh Density Pole4133 - Aspen, Mixed PineHigh Density Pole4130 - AspenMedium Density Pole42200 - Natural White PineHigh Density Pole42110 - Planted Red DeciduousHigh Density Pole42210 - Natural White PineHigh Density Pole42110 - Planted Red PineHigh Density Pole42110 - Planted Red PineHigh Density Pole42110 - Planted Red PineHigh Density Pole42110 - Planted Red PineHigh Density Pole4130 - AspenHigh Density Pole4130 - AspenHigh Density Pole	Cover TypeDensityAcres6128 - Lowland Coniferous, Mixed DeciduousHigh Density Log8.042110 - Planted Red PineHigh Density Pole9.142120 - Planted Jack PineHigh Density Pole3.942110 - Planted Red PineHigh Density Pole25.342110 - Planted Red PineHigh Density Pole5.842120 - Planted Jack PineHigh Density 	Cover Type         Density         Acres         Age           6128 - Lowland Coniferous, Mixed Deciduous         High Density Log         8.0         97           42110 - Planted Red Pine         High Density Pole         9.1         51           42120 - Planted Jack Pine         High Density Pole         3.9         51           42120 - Planted Jack Pine         High Density Pole         25.3         52           42110 - Planted Red Pine         High Density Pole         5.8         31           42120 - Planted Jack Pine         High Density Pole         3.2         51           42110 - Planted Red Pine         High Density Pole         17.6         49           4133 - Aspen, Mixed Pine         High Density Pole         7.6         39           4130 - Aspen         Medium Density Pole         54.4         39           42200 - Natural White Pine         High Density Pole         3.8         80           4139 - Aspen, Mixed Deciduous         Low Density Pole         2.7         31           42200 - Natural White Pine         High Density Pole         32.7         28           42110 - Planted Red Pine         High Density Pole         2.1         80           42200 - Natural White Pine         High Density Pole         32.7         28<	Cover Type         Density         Acres         Age         Range           6128 - Lowland Coniferous, Mixed Deciduous         High Density Log         8.0         97         51-80           42110 - Planted Red Pine         High Density Pole         9.1         51         141-170           42120 - Planted Jack Pine         High Density Pole         3.9         51         81-110           42120 - Planted Jack Pine         High Density Pole         12.4         49         141-170           42110 - Planted Red Pine         High Density Pole         5.8         31         51-80           42120 - Planted Jack Pine         High Density Pole         3.2         51         81-110           42110 - Planted Red Pine         High Density Pole         17.6         49         81-110           4133 - Aspen, Mixed Pine         High Density Pole         7.6         39         51-80           42200 - Natural White Pine         High Density Pole         3.8         80         81-110           4139 - Aspen, Mixed Deciduous         Low Density Pole         2.7         31         1-50           42200 - Natural White Pine         High Density Pole         2.1         80         111-140           42200 - Natural White Pine         High Density Pole         2.1

S t	Gaylord		5 – Fo	orested Star	Compartment: 022 Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	42120 - Planted Jack Pine	High Density Pole	27.1	52	111-140	
77	42120 - Planted Jack Pine	High Density Pole	13.1	52	81-110	
83	42120 - Planted Jack Pine	High Density Pole	6.5	52	111-140	
84	42120 - Planted Jack Pine	High Density Pole	36.6	51	51-80	
86	42110 - Planted Red Pine	High Density Pole	44.5	29	51-80	
87	42120 - Planted Jack Pine	High Density Pole	22.9	52	81-110	
88	4133 - Aspen, Mixed Pine	Medium Density Pole	27.2	36	1-50	
89	42120 - Planted Jack Pine	High Density Pole	14.1	52	111-140	
92	6124 - Lowland Spruce- Fir	High Density Pole	109.5	85	51-80	Natural River present.
93	4130 - Aspen	High Density Sapling	109.5	16		Recent clearcut.
94	4130 - Aspen	High Density Pole	10.9	72	51-80	Clones consisting of varying sizes/ages. May want to cut with adjacent jack pine stands and replant.
96	42120 - Planted Jack Pine	High Density Pole	26.4	52	111-140	
98	42120 - Planted Jack Pine	High Density Pole	4.3	52	111-140	
99	42120 - Planted Jack Pine	High Density Pole	8.5	52	81-110	
100	42120 - Planted Jack Pine	High Density Pole	12.9	50	81-110	
101	4130 - Aspen	High Density Sapling	24.9	37	1-50	Small for its age.
102	42110 - Planted Red Pine	High Density Sapling	25.8	29	111-140	
105	4112 - Maple, Beech, Cherry Association	High Density Sapling	20.6	8		Recent clearcut.

S t	Gaylor	d Mgt. Unit		5 – Fe	orested Stan	Compartment: 022 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
106	4112 - Maple, Beech, Cherry Association	High Density Pole	58.8	74	81-110	Appears to have the potential to grow decent hard maple. Aspen is falling out now. Stocking is more erratic than BA swings indicate
107	42110 - Planted Red Pine	High Density Pole	12.9	49	141-170	
109	4130 - Aspen	Low Density Pole	30.8	50	1-50	Patchy stocking that grades in and out of aspen and upland brush.
112	4130 - Aspen	High Density Pole	44.6	24	1-50	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3301 - Low Density Deciduous Tree	2.1	N\A	Unspecified	
2	50 - Water	13.2	N\A	Unspecified	Duck Lake.
4	6225 - Bog	1.4	N\A	Unspecified	
9	3105 - Mixed Upland Herbaceous	21.9	N\A	Unspecified	Pipeline.
14	3302 - Low Density Conifer Trees	17.6	N\A	Unspecified	Scattered small cedar and spruce with tag alder and marsh grass/sedge.
16	3102 - Grass	1.0	N\A	Unspecified	
17	6224 - Treed Bog	5.1	N\A	Unspecified	
18	3301 - Low Density Deciduous Tree	6.1	N\A	Unspecified	
19	3102 - Grass	1.9	N\A	Unspecified	
20	6225 - Bog	1.6	N\A	Unspecified	Covered at times at least in part by standing water.
21	6229 - Mixed lowland shrub	16.3	N\A	Unspecified	
24	3205 - Mixed Upland Shrub	11.8	N\A	Unspecified	
27	3105 - Mixed Upland Herbaceous	5.0	N\A	Unspecified	Pipeline.
28	6225 - Bog	5.6	N\A	Unspecified	
29	3205 - Mixed Upland Shrub	1.0	N\A	Unspecified	
30	710 - Sand, Soil	1.2	N\A	Unspecified	Gas facility.
31	3102 - Grass	4.1	N\A	Unspecified	Mancelona Road right of way.
32	790 - Other Bare/Sparsely Vegetate	3.3	N\A	Unspecified	Appears to be a borrow pit.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
36	3301 - Low Density Deciduous Tree	24.9	N\A	Unspecified	Scattered red maple mostly with some cherry and white pine.
38	3102 - Grass	4.2	N\A	Unspecified	
39	3301 - Low Density Deciduous Tree	2.4	N\A	Unspecified	
41	6229 - Mixed lowland shrub	107.8	N\A	Unspecified	
44	3205 - Mixed Upland Shrub	1.5	N\A	Unspecified	
45	6233 - Wet Meadow	4.2	N\A	Unspecified	Some tag alder as well.
47	3102 - Grass	1.7	N\A	Unspecified	Scattered small white pine and cherry.
50	3105 - Mixed Upland Herbaceous	24.4	Planted	Red Pine	Red Pine Project. It is supposed to be replanted to red pine in the not too distant future.
51	6229 - Mixed lowland shrub	18.9	N\A	Unspecified	
52	3105 - Mixed Upland Herbaceous	35.9	N\A	Unspecified	Pipeline.
53	3102 - Grass	1.0	N\A	Unspecified	
55	3104 - Degraded	1.1	N\A	Unspecified	Well site.
59	6220 - Alder/willow	9.1	N\A	Unspecified	
61	3301 - Low Density Deciduous Tree	4.7	N\A	Unspecified	
65	3301 - Low Density Deciduous Tree	5.9	N\A	Unspecified	
69	3301 - Low Density Deciduous Tree	21.3	N\A	Unspecified	
70	3302 - Low Density Conifer Trees	9.0	N\A	Unspecified	Stocking up to 90 BA can be found at the edge of the upland but overall the trees are scattered over wetland shrubs.
71	3302 - Low Density Conifer Trees	15.4	Planted	Jack Pine	Mix of planted white pine and natural jack pine, all of which are seedling size.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
72	3301 - Low Density Deciduous Tree	15.1	Yes	Unspecified	Recently burned.
74	3301 - Low Density Deciduous Tree	11.0	N\A	Unspecified	
75	3105 - Mixed Upland Herbaceous	62.2	Planted	Red Pine	Red Pine Project. It is supposed to be replanted to red pine in the not too distant future.
76	3301 - Low Density Deciduous Tree	7.2	N\A	Unspecified	
78	6229 - Mixed lowland shrub	45.4	N\A	Unspecified	
79	3105 - Mixed Upland Herbaceous	3.5	N\A	Unspecified	Pipeline.
80	3105 - Mixed Upland Herbaceous	7.0	Planted	Red Pine	Red Pine Project. It is supposed to be replanted to red pine in the not too distant future.
81	6229 - Mixed lowland shrub	50.2	N\A	Unspecified	
82	3105 - Mixed Upland Herbaceous	24.5	Planted	White Pine	Mix of planted white pine and naturally regenerating jack pine, all of which are seedling size.
85	3205 - Mixed Upland Shrub	36.7	N\A	Unspecified	
90	3102 - Grass	16.4	N\A	Unspecified	Pipeline.
91	50 - Water	7.0	N\A	Unspecified	
95	3301 - Low Density Deciduous Tree	25.0	N\A	Unspecified	
97	6225 - Bog	1.8	N\A	Unspecified	
103	3104 - Degraded	1.0	N\A	Unspecified	Well site.
104	3302 - Low Density Conifer Trees	79.8	Planted	Red Pine	Red Pine Project. It is supposed to be planted back to red pine.
108	6229 - Mixed lowland shrub	5.7	N\A	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
110	710 - Sand, Soil	1.1	N\A	Unspecified	Facility.
111	6229 - Mixed lowland shrub	9.7	N\A	Unspecified	

Gaylord Mgt. Unit

Compartment: 022 Year of Entry: 2013



### 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

Gaylord Mgt. Unit

Compartment: 022 Year of Entry 2013



### **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	Туре	Description	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.				
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.				
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10 and Vegetative Buffers for each Natural River see the table locat folder.	S Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts			