

# GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 068 ENTRY YEAR: 2013

Compartment Acreage: 2297 County: IOSCO

Revision Date: 7/23/11

**Stand Examiner:** Lucas Merrick

Legal Description: Oscoda Township, T24N R08E sections 16, 17, 18, 19, 20, 21

**Management Goals:** To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout while providing multiple use and visual management.

**Soil and Topography:** The compartment is flat north of Bissonette Road. South of the road there is a steep slope and the cover types transition into lowland. Soils are primarily Grayling sands in the upland and Lupton muck in the lowland.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The state owned land in this area shares several property lines with the U.S. Forest Service. There are private subdivisions found in section 20. Multiple private parcels can be found in the east half of section 16.

Unique, Natural Features: Michigan Natural Features Inventory reports that there is excellent potential for Kirtland's warbler, prairie warbler, and grasshopper sparrow. Secretive locust may be found in jack pine. Potential for dusted skipper, grizzled skipper, Henry's elfin and red-legged spittlebug could occur in grassy openings and young jack pine and oak. There is slight potential for red-shouldered hawk and goshawk. This compartment shows excellent potential for eastern massasauga at the borders of conifer swamps and adjacent uplands. Some plant species that may occur are rough fescue, pale agoseris, Hill's thistle, and Alleghany plum in pine barrens/dry sand prairie. Potential for calypso orchid, Limestone oak fern, round-leaved orchids, and ram's head lady-slipper in conifer swamps.

The AuSable River Foote Basin flooding is located .5 to 1 mile south of this compartment.

**Archeological, Historical, and Cultural Features:** There is potential for such features to exist.

**Special Management Designations or Considerations:** None at this time.

Watershed and Fisheries Considerations: None at this time.

**Wildlife Habitat Considerations:** Promote the expansion of aspen and oak cover types. Protect mast producing shrubs whenever possible. Efforts should be made to enhance dead and down woody debris and standing snags.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 400 and 600 feet. Beneath the

glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is three and one-half miles to the west, and gravel potential is thought to be limited. This compartment is not leased for oil and gas development. Several Antrim Shale test wells were drilled and abandoned north of this area, but gas production was very limited.

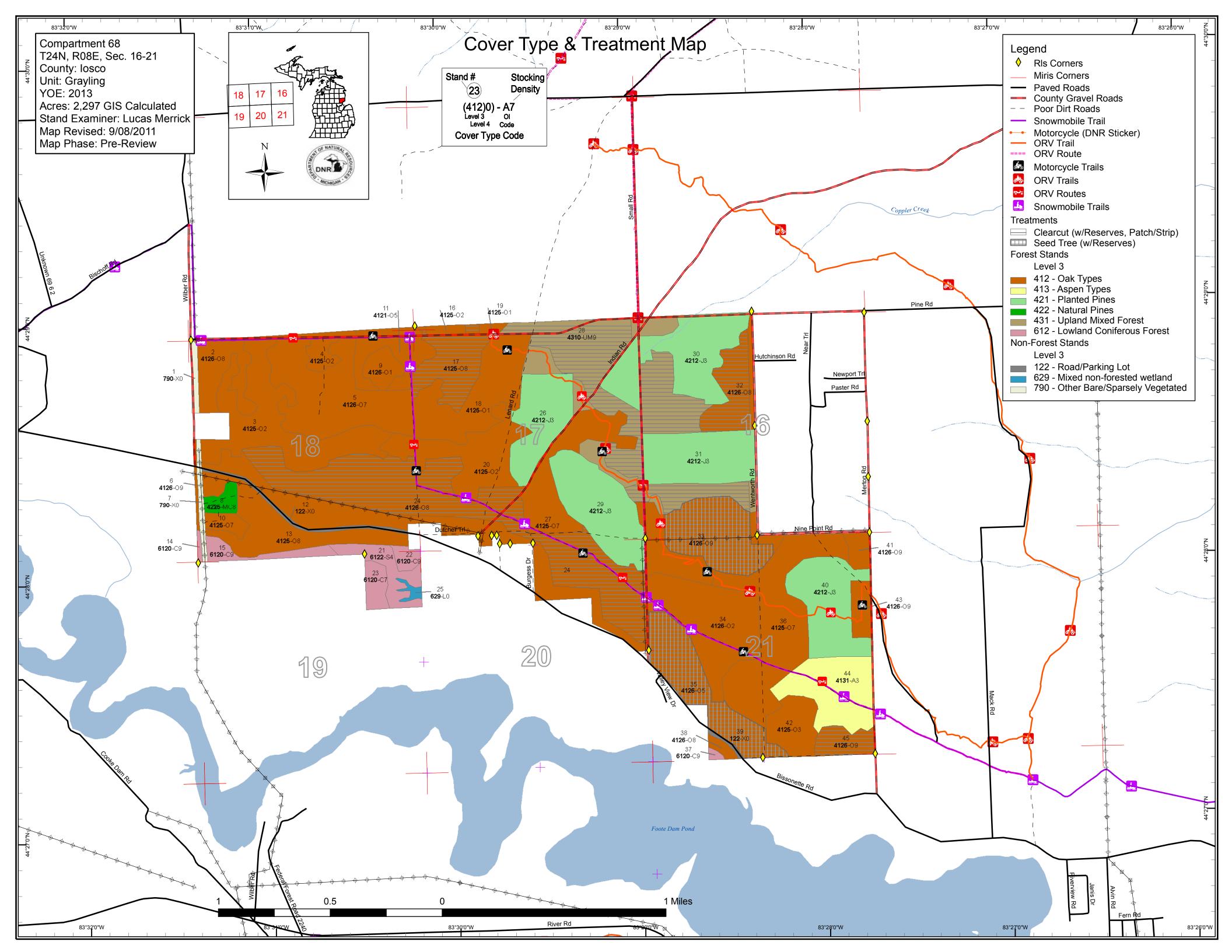
**Vehicle Access:** The entire compartment is easily accessed by county roads, forest roads, and ORV routes. Roads created for management activities should be blocked once management is complete. There is a Director's Order restricting wheeled vehicle traffic along the power line paralleling Wilber Road.

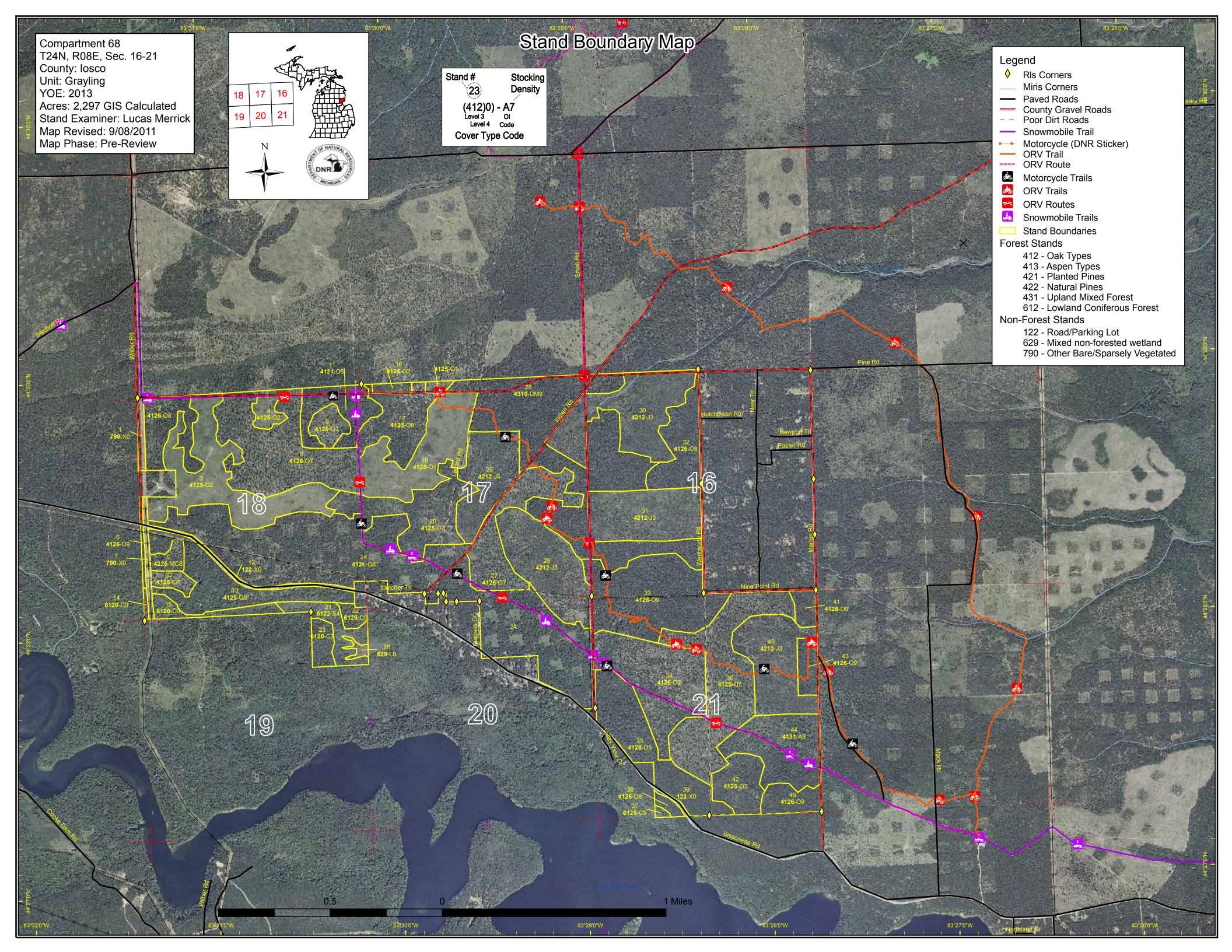
**Survey Needs:** The property line as drawn in section 20 is questionable. If activities require delineation of property lines a survey request may be required.

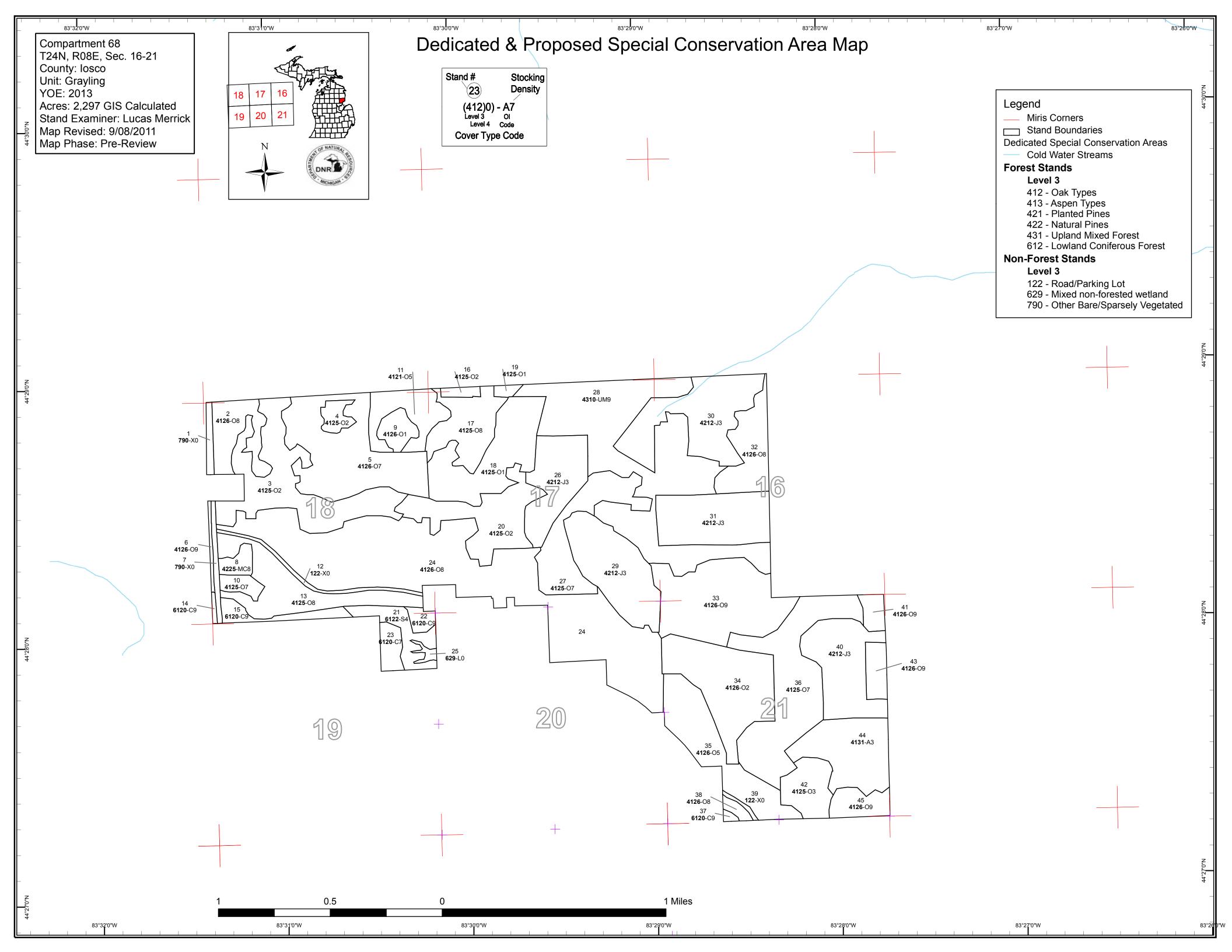
**Recreational Facilities and Opportunities:** The Old State House Snowmobile Trail #96 is found in this compartment along with the Old State House ORV Trail and ORV Route.

**Fire Protection:** There is potential for extreme fire behavior in this area. There are large areas of dense young jack pine found within and around the compartment. Access in this area is not of major concern. The multiple roads and trails provide fuel breaks. The growing private interface in this area increases the likeliness of a fire event.

- ➤ The following reports are available:
  - **♦** Total Acres by Cover Type and Age Class
  - **♦** Proposed Treatment Summaries
  - **♦** Dedicated Conservation Area Details
  - **♦** Listing of Forested Stands
  - **♦** Listing of Non-Forested Stands
  - **♦** Proposed Treatments with No Limiting Factor
  - **♦** Proposed Treatments with Limiting Factors
- > The following information is displayed, where pertinent, on the attached compartment maps:
  - ♦ Base feature information, stand numbers, cover types, recreation trails and facilities
  - **♦** Proposed treatments
  - **♦ Dedicated & Proposed Special Conservation Areas**







Compartment 068 Year of Entry 2013

Grayling Mgt. Unit
Patrick Potter : Examiner



#### Age Class

	Age Class																
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Aspen	0	0	69	0	0	0	0	0	0	0	0	0	0	0	0	69	
Bare/Sparsely Vegetated	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	
Cedar	0	0	0	0	0	0	0	0	0	0	0	39	0	0	0	39	
Jack Pine	0	0	374	0	0	0	0	0	0	0	0	0	0	0	0	374	
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0	26	
Natural Mixed Pines	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10	
Oak	0	200	0	221	0	0	0	0	753	95	198	62	10	0	0	1538	
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	213	0	0	0	0	213	
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1
Total	29	200	443	221	0	0	10	0	753	95	411	126	10	0	0	2297	



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

Grayling Mgt. Unit Year of Entry 2013

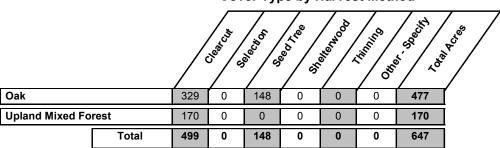
Compartment 068
Total Compartment Acres: 2297

### **Acres by Treatment Type**

Commercial Harvest - 647 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**



S t						atments Pre Limiting Fact	Compartment: 068 Year of Entry 2013	DNR DIE	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17	72068017-Cut	48.6	4125 - Black, N. Pin Oak	Medium Density Log	97	Harvest	Clearcut with Reserves	4125 - Black, N. Pin Oak	Cmpt. Review Proposal
Presc Specs	Conside	r this resi						ve average sale BA at 5 fter harvest operations.	
Other Comm			ective is a mixed stand		•		ter stocking. The exter	nt of trenching should be	based on
Next Steps	Trench a	and plant							
24	72068024-Cut	222.3	4126 - White, Black, N. Pin Oak	Medium Density Log	78	Harvest	Clearcut with Reserves	4126 - White, Black, N. Pin Oak	Cmpt. Review Proposal
Presc Specs							Mark out healthy lookir 5-spot harvest areas fro	ng white oak at foresters om sale area.	descretion to
Other Comm			ective is a moderately trench and plant jack					e stand. If natural regen	fails to meet
			oved from property lin wned land if blue line i		lue to lac	k of information	as far as property lines	and ownership. Will ne	ed to request a
Next Steps	monitor								
28	72068028-Cut	169.6	4310 - Pine, Oak Mix	High Density Log	91	Harvest	Clearcut with Reserves	4310 - Pine, Oak Mix	Cmpt. Review Proposal
Presc Specs			and up. Leave 5 - 10 on. Trench and plant				out a few of the health	ier oak here and there to	leave at
Other Comm	-	ındary wa	as designed to reduce	impact to ORV tra	il as muc	h as possible. N	Management objective	is a mixed stand of jack	pine and oak.
Next Steps		and plant							
32	72068032-Cut	38.2	4126 - White,	Medium Density	78	Harvest	Clearcut with	4122 - Oak, Pine	Cmpt. Review

**32 72068032-Cut** 38.2 4126 - White, Medium Density 78 Harvest Clearcut with 4122 - Oak, Pine Cmpt. Review Black, N. Pin Oak Log Reserves Proposal

<u>Prescription</u> Final Harvest with reserves. Retain 3 - 10% of sale area in islands, consider aesthetics during placement. Recommend trenching and planting <u>Specs:</u> jack pine around natural regen.

Other Trenching should help to address the encroachment issues from adjacent parcels.

Comments:

Trench and plant.

Next Steps:

teps:

33 72068033-Cut 73.4 4126 - White, High Density Log 78 Harvest Seed Tree with 4121 - Oak, Aspen Cmpt. Review Black, N. Pin Oak Reserves Proposal

<u>Prescription</u> Leave 10- 20 BA of mixed species to provide a seed source. Leave some of sale area in islands 3-9%. Avoid aspen within the islands. Attempt to scarify during operations by harvesting with snow off conditions.

Other Management objective is moderate to fully stocked oak and aspen stand with a mix of species currently represented in canopy as well as white pine from adjacent seed sources. If natural regen fails trench and plant red or jack pine. May want to consider immediately trenching and planting after harvest operations to ensure a fully stocked mixed stand.

Next monitor regen

Steps:

Grayling Mgt. Unit

## Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 068
Year of Entry 2013

/	OF NATE	IRA
NE NE	12	1/8
PAR	DNR	
12		1.5
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/	MICHIG	AN .

a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	72068035-Cut	74.6	4126 - White, Black, N. Pin Oak	Medium Density Pole	85	Harvest	Seed Tree with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal

Prescription Leave 10BA of oak. Do not cut/damage red or white pine. Leave 5-10% of harvest area in leave islands. Consider aesthetics when creating

Specs: islands. Make attempts to scarify (try to limit to snow off conditions)

Other Management objective is an oak stand with a mixed pine component. Moderate or better stocking is acceptable. If natural regen is not adequate

Comments: trench and plant red or jack pine around natural regeneration. May want to consider trenching and planting after harvest (red or jack pine).

Next Monitor regen

Steps:

45 72068045-Cut 20.1 4126 - White, High Density Log 85 Harvest Clearcut with 4126 - White, Black, Cmpt. Review Black, N. Pin Oak Proposal

Prescription Leave 3-5% of sale area in islands. Mark and leave 5BA of misc species throughout sale area.

Specs:
Other

Watch southern property line- the road is south of line. Management objective is mixed oak with a misc pine and aspen component at moderate

Comments: or better stocking. If natural regen fails, trench and plant red pine around natural regen.

Next monitor regen

Steps:

**Total Treatment** 

Acreage Proposed: 646.7

S t a		ling Mgt. Unit	Table 4		ents Prescrib ing Factor	Compartment: 068 Year of Entry 2013	DNR MICHIGAN		
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:								
Othe Com	<u>r</u> ment:								
Next Steps	<u>5:</u>								
	ing Factor and N ment Reason	<u>lo</u>							

Total Treatment
Acreage Proposed:

0

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

Year of Entry: 2013

DNR DNR DRANGE

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

Total Treatment

Next Steps:

Acreage Proposed:

0

s t				0 10	nostou otu	Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4126 - White, Black, N. Pin Oak	Medium Density Log	37.1	78		Patch cuts found along power line.
3	4125 - Black, N. Pin Oak	Medium Density	109.2	5		A regenerating oak and aspen stand.
4	4125 - Black, N. Pin Oak	Medium Density	10.3	5		A regenerating stand
5	4126 - White, Black, N. Pin Oak	Low Density Log	118.3	78	1-50	A regenerating oak stand.
6	4126 - White, Black, N. Pin Oak	High Density Log	3.5	78		Narrow stand along Wilbur Road.
8	42250 - Pine, Oak	Medium Density Log	9.8	50	51-80	An oak/pine stand
9	4126 - White, Black, N. Pin Oak	Low Density Sapling	14.7	26		Residual overstory of scattered red pine and oak. Stand created through multiple fuel wood cuts.
10	4125 - Black, N. Pin Oak	Low Density Log	9.5	111	1-50	A regenerating oak stand
11	4121 - Oak, Aspen	Medium Density Pole	37.7	78	51-80	Cherry and sedge ground cover. Areas patch cut over last 20-30 years have great regen.
13	4125 - Black, N. Pin Oak	Medium Density Log	69.6	78		South side of Bissonett Road along a ridge.
14	6120 - Lowland Cedar	High Density Log	1.6	102	171-200	Small stand seperated by power line
15	6120 - Lowland Cedar	High Density Log	15.9	102	171-200	Cedar swamp
16	4125 - Black, N. Pin Oak	Medium Density	4.9	26		A regenerating oak and aspen stand. A couple nice pockets of blueberry.
17	4125 - Black, N. Pin Oak	Medium Density Log	48.6	97	1-50	An even aged mature oak stand with a very poor understory in most areas. Misc pine present. Higher BA along the South and Southwest. Fairly sparse in the north.
18	4125 - Black, N. Pin Oak	Low Density Sapling	80.7	5		A regenerating oak and aspen stand. Excellent amount of mast producing shrubs.
19	4125 - Black, N. Pin Oak	Low Density Sapling	3.5	26		A regenerating oak stand.
20	4125 - Black, N. Pin Oak	Medium Density	70.2	26	1-50	A mixed oak, jack pine, and aspen stand. Regenerating approx 20-30' tall. Evidence of an old fire in stand.

5 - Forested Stands

Compartment: 068

Grayling Mgt. Unit

s t	Grayiing		0 1	orested ota	Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	6122 - Black Spruce	Low Density Pole	25.7	105		Majority of cedar has died, scattered black spruce and alder present
22	6120 - Lowland Cedar	High Density Log	7.2	105	141-170	Heavy balsam understory along slope. Seeps and a stream found in stand.
23	6120 - Lowland Cedar	Low Density Log	12.7	105	81-110	A cedar swamp.
24	4126 - White, Black, N. Pin Oak	Medium Density Log	324.3	78	81-110	Stand has had multiple patch cuts prescribed over the years.
26	42120 - Planted Jack Pine	High Density Sapling	58.0	16		A jack pine plantation.
27	4125 - Black, N. Pin Oak	Low Density Log	61.7	101	1-50	This stand was seed tree/shelter wooded. A nice 3-5' tall understory of oak has developed.
28	4310 - Pine, Oak Mix	High Density Log	212.8	91	51-80	Oak and pine. Design treatment boundary to reduce impact along the ORV trail.
29	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	80.1	16		The 1st couple chains along the northwest were not trenched.
30	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	90.6	16		jack pine plantation.
31	42120 - Planted Jack Pine	High Density Sapling	73.1	16		Jack pine plantation with scattered oak.
32	4126 - White, Black, N. Pin Oak	Medium Density Log	44.5	78	51-80	MIxed oak/pine stand. Areas with good oak regen. Yard debris dumping occuring along edges of stand. Heavier to jack pine in areas.
33	4126 - White, Black, N. Pin Oak	High Density Log	113.2	78	51-80	Typical oak stand for the area.
34	4126 - White, Black, N. Pin Oak	Medium Density	95.7	26		A regenerating oak stand
35	4126 - White, Black, N. Pin Oak	Medium Density Pole	74.6	85	51-80	Illegal fuel wood cutting evident. Oak seedlings but none show potential to advance to the sub-canopy
36	4125 - Black, N. Pin Oak	Low Density Log	124.1	97	1-50	Recently treated oak stand. Sub-canopy showing potential.
37	6120 - Lowland Cedar	High Density Log	1.7	105		Cedar stand with paper birch
38	4126 - White, Black, N. Pin Oak	Medium Density Log	4.7	78		The understory has an excellent amount of wp regen.

5 - Forested Stands

Grayling Mgt. Unit

Compartment: 068

s t	Grayling	Mgt. Unit		5 – Fo	orested Sta	Compartment: 068 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	72.0	16		Pockets of aspen along west edge. Stand cut in 85-trenched and seeded in 95
41	4126 - White, Black, N. Pin Oak	High Density Log	10.2	93	51-80	Smaller isolated oak stand
42	4125 - Black, N. Pin Oak	High Density Sapling	32.0	25		A regenerating oak stand.
43	4126 - White, Black, N. Pin Oak	High Density Log	15.1	93	51-80	Mature oak and pine stand.
44	4131 - Aspen, Oak	High Density Sapling	68.8	17		A regenerating oak and aspen stand. Oak and red pine 12" dbh+ were left.
45	4126 - White, Black, N. Pin Oak	High Density Log	20.1	85	81-110	A mixed oak stand.

### 6 - Nonforested Stands

Compartment: 068 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	790 - Other Bare/Sparsely Vegetate	6.2	N\A	Unspecified	Wheeled vehicle are not allowed on power line per Directors Order.
7	790 - Other Bare/Sparsely Vegetate	7.7	N\A	Unspecified	
12	122 - Road/Parking Lot	9.7	N\A	Unspecified	
25	629 - Mixed non-forested wetland	3.2	N\A	Unspecified	open water and grass
39	122 - Road/Parking Lot	2.1	N\A	Unspecified	

Grayling Mgt. Unit

Compartment: 068
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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.

Grayling Mgt. Unit

Compartment: 068
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#### **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	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area						
SCA	Cold Water Stream	stocked trout populations and those of other coldwayear to year. Coldwater streams in Michigan typical	ly provide these conditions due to substantial Such streams are established by Director's action and						