



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72246

Entry Year 2019

Acreage: 1,834

County Crawford

Management Area: Camp Grayling

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**Revision Date:** 2017-07-31

**Stand Examiner:** Kevin Ehlert

**Legal Description:**

T28N R02W Sections 4, 5, 6 Lovells Township

**Identified Planning Goals:**

To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment. On these lands, military training has precedence over resource management activities. The DNR will coordinate all prescribed activities with the National Guard to ensure that they are compatible with military training needs.

**Soil and topography:**

Graycalm, Grayling, and Rubicon Sands, with flat to rolling terrain. These soil types are excessively to somewhat excessively well-drained.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

State owned lands are under the 1935 long-term lease agreement L-1479 (Act 154 P.A. 1935) with the Michigan National Guard, Department of Military and Veteran Affairs. This long-term lease provides for usage by the military during their encampment, with no permanent buildings or improvements to be erected. Military needs take precedence over resource management needs on long-term lease lands. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training. The majority of 28N 02W is under state ownership with most of the land surrounding compartment 246 being used as an air to ground impact range.

**Unique Natural Features:**

The compartment has the potential to contain the following species as identified by MNFI: Blandings turtle, Red-shouldered hawk, loon, Grizzled skipper, Glazing star borer, Doll's merolonche, Boreal brachionyncha, Bald eagle, Secretive locust, Dusted skipper, Pale agoseris, Rough fescue, Hill's thistle, and Fleshy stitchwort. There is a northern shrub thicket to the north of the compartment, pine barrens to the east, a bog to the southeast, and Shupac Lake dry sand prairie to the southeast.

**Archeological, Historical, and Cultural Features:**

None at this time.

**Special Management Designations or Considerations:**

Range 40 "Air to Ground" impact range, this area is used extensively for military training.

**Watershed and Fisheries Considerations:**

This compartment is located to the southeast of Guthrie Lake. Since no treatments are planned, Fisheries has no concerns.

**Wildlife Habitat Considerations:**

Management is difficult because of limited access. The constant fire activity helps to maintain early successional forest types and provides for browse and cover.

**Mineral Resource and Development Concerns and/or Restrictions**

Sand/gravel pits are not located in the vicinity, but there is good sand and gravel potential on the upland areas within the compartment. Active Antrim Shale gas development is occurring one mile to the west, and there should be good Antrim potential within the compartment. Section 6 was recently leased for oil and gas development. Sections 4 and 5 are classified as non-leasable. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

The area within the fence is inaccessible by unauthorized vehicles and personnel. Harvest operations have occurred inside the fence in the past. The small portion in Section 6 outside of the fence is accessible by several trail roads.

Typically, 4-wheel drive is needed in this area due to the sandy and hilly nature of the roads.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Very little recreational opportunity due to restricted access. There is casual use in the portion of Section 6 found outside of the range fence.

**Fire Protection:**

Fires occur frequently within the fence and are monitored by military and DNR firefighting personnel. Direct attack operations are not recommended within the fence due to unexploded ordinance.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

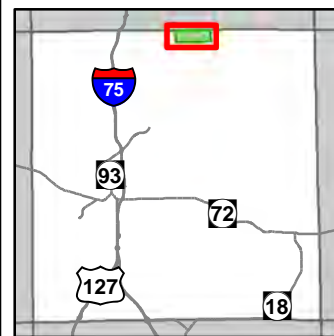
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**The following information is displayed, where pertinent, on the attached compartment maps:**

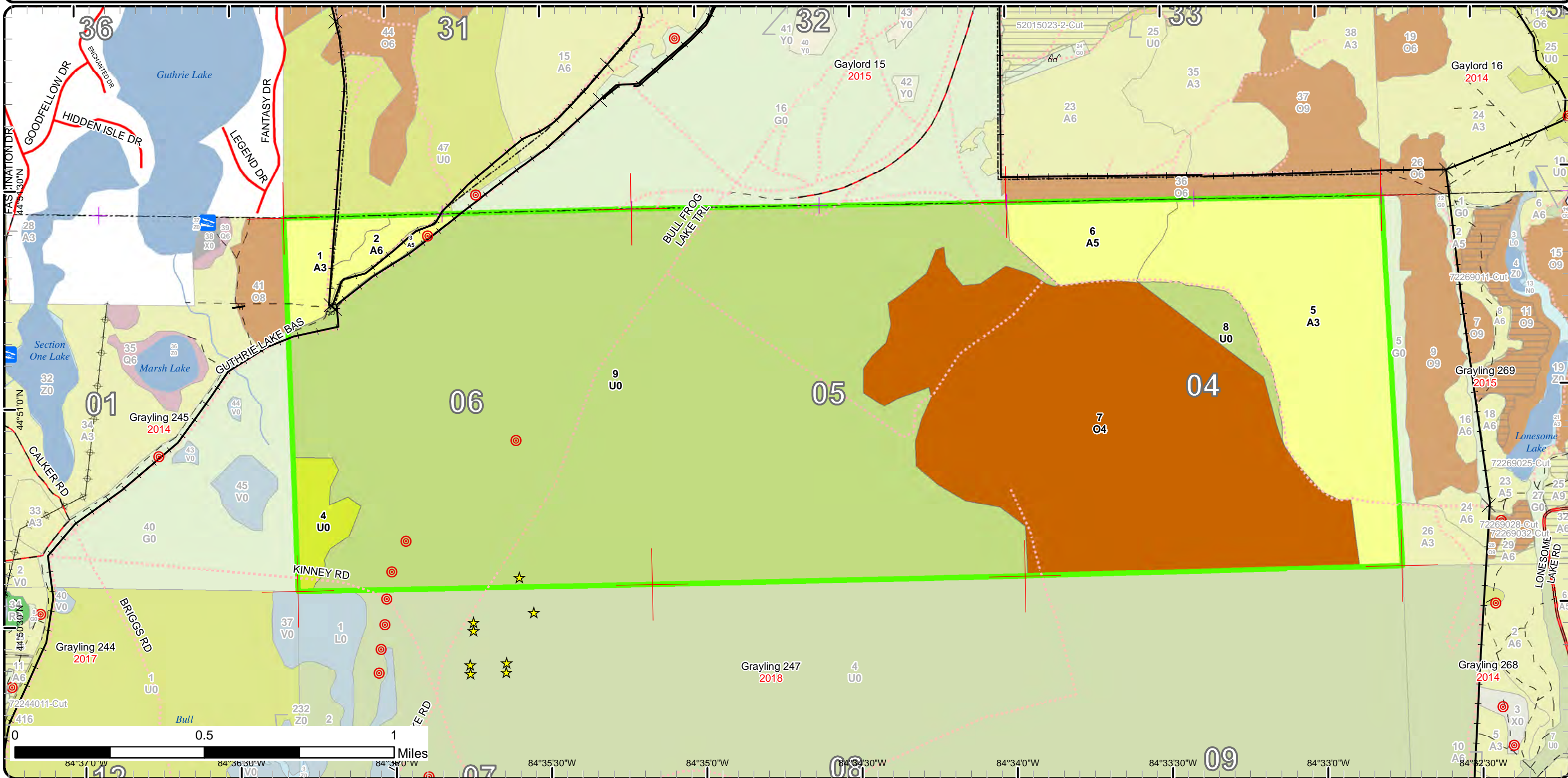
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 246  
 T28N, R02W, Sec: 04-06  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2019  
 Acres: 1834 GIS Calculated  
 Examiner: Kevin Ehler  
 Map Revised: 3/5/2018  
 Map Phase: Post-Review

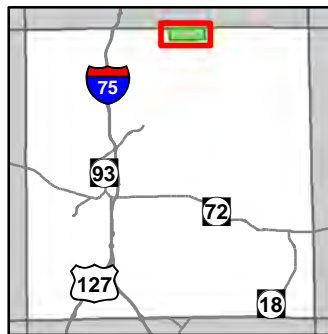


- Miris Corners
- + Remonumented Section Corners
- Counties
- Boating Access Site
- County Paved Roads
- Paved Roads
- County Gravel Roads
- - - County Poor Dirt Roads
- - - Poor Dirt Roads
- - - Closed
- Streams
- Lakes and Rivers All
- Powerline
- - - Fence
- Compartment Boundary
- 412 - Oak Types
- 413 - Aspen
- 320 - Upland Shrub
- 330 - Low Density Trees
- Lakes

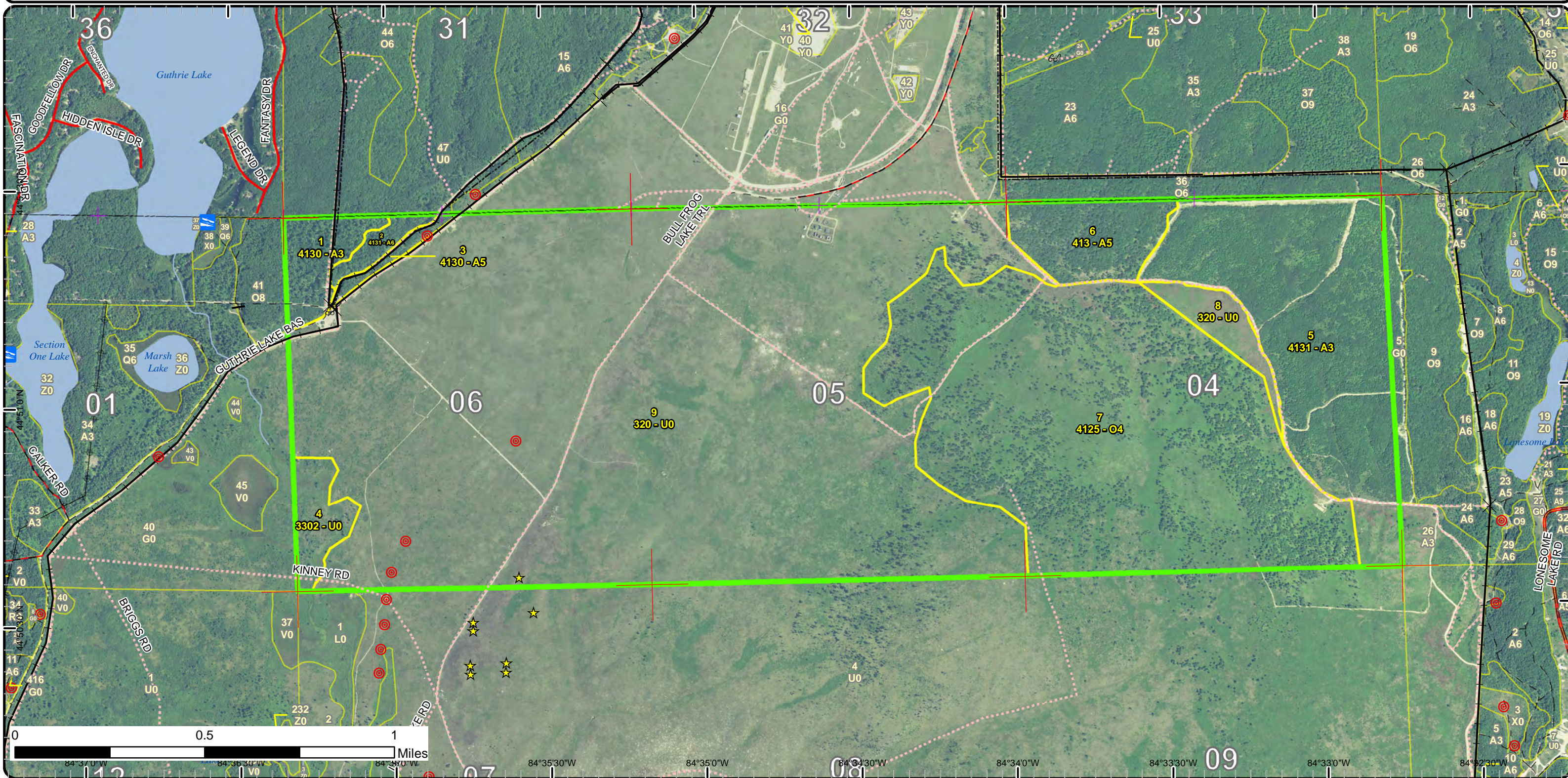


# Stand Boundary Map

Compartment: 246  
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 County: Crawford  
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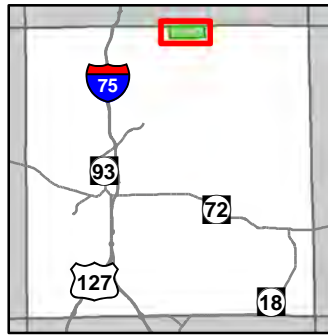


- Miris Corners
- + Remonumented Section Corners
- Counties
- Boating Access Site
- County Paved Roads
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- Lakes and Rivers All
- Powerline
- - - Fence
- Compartment Boundary
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen
- 320 - Upland Shrub
- 330 - Low Density Trees

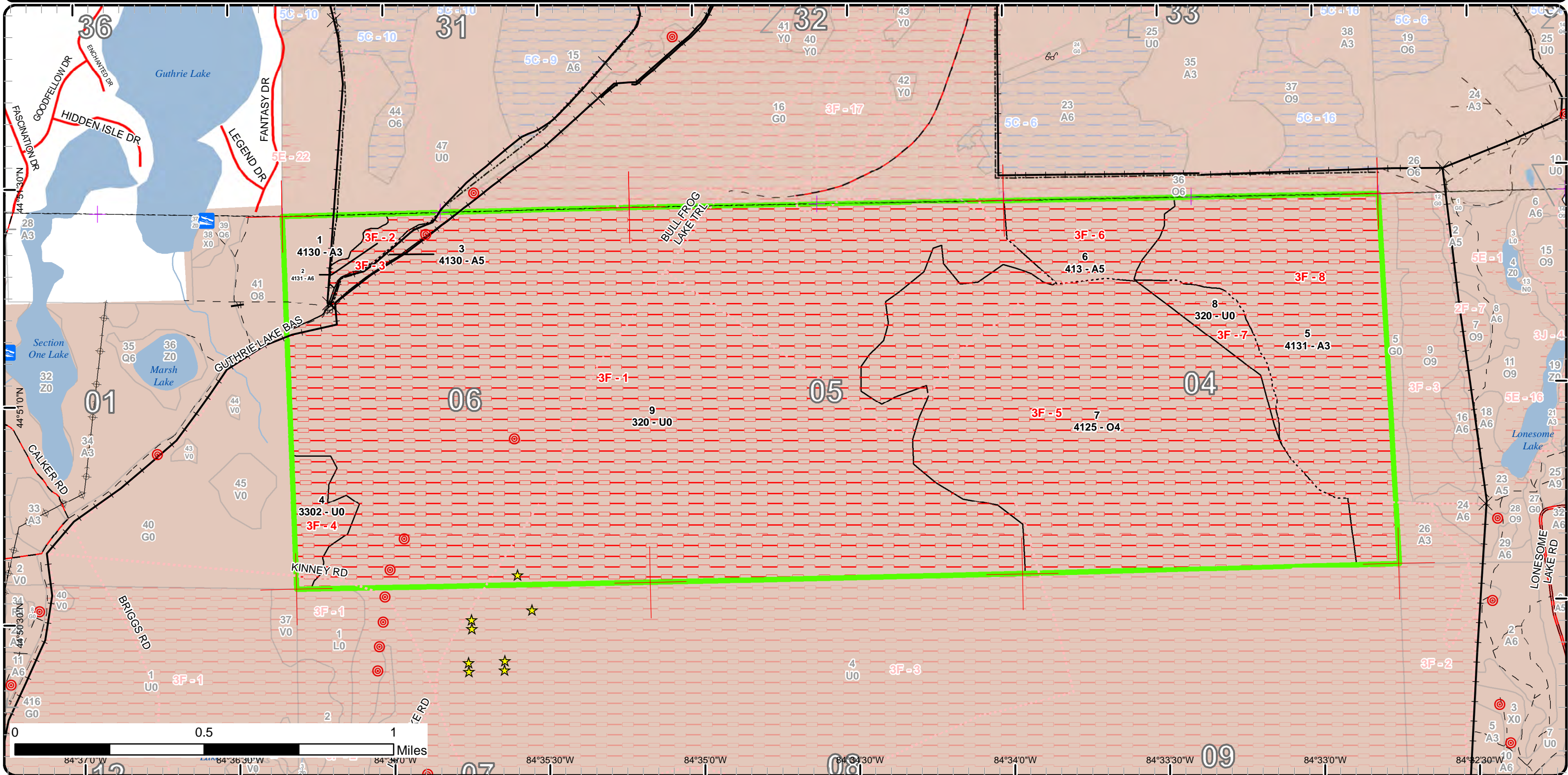


# Special Conservation Areas & Site Conditions Map

Compartment: 246  
 T28N, R02W, Sec: 04-06  
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- Miris Corners
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- Closed
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- Lakes and Rivers All
- Powerline
- Fence
- Compartment Boundary
- Unavailable
- 3F: Military easement / lease
- Stand Boundaries
- Research, Development, and Military Lands



# Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment 246 Year of Entry 2019



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	244	0	0	69	0	0	0	0	0	0	0	0	0	0	0	0	313
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Oak	0	0	0	0	0	0	0	449	0	0	0	0	0	0	0	0	0	0	449
Upland Shrub	1049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1049
<b>Total</b>	<b>1073</b>	<b>0</b>	<b>244</b>	<b>0</b>	<b>0</b>	<b>69</b>	<b>0</b>	<b>449</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1835</b>



## Report 2 – Treatment Summary

**Grayling Mgt. Unit**  
**Year of Entry: 2019**

**Compartment 246**  
**Total Compartment Acres: 1,834**

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### Acres of Harvest

Commercial Harvest -  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

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S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
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#Type!

**Habitat Cut:**PrescriptionSpecs:Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date:


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**Total Treatment  
Acreage Proposed: 0.0**



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 246  
Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	
312	29	0	283	3F	283
24	0	0	24	Aspen	24
449	0	0	449	Low-Density Trees	449
1049	0	0	1049	Oak	1,049
1,834	29		1,805	Upland Shrub	1,805
	2%		98%	Total Forested Acres	
				Relative Percent	

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3F: Military easement / lease	1,027	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3F: Military easement / lease	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3F: Military easement / lease	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	3F: Military easement / lease	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Grayling Mgt. Unit**  
**Kevin Ehlert : Examiner**

**Compartment: 246**  
**Year of Entry: 2019**

5	Unavailable	3F: Military easement / lease	449	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	3F: Military easement / lease	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	3F: Military easement / lease	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	3F: Military easement / lease	215	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Sapling Well	28.8	13	Immature	<p>This stand has good regeneration of big tooth aspen ~ 15-25' in height. A low density super canopy of red and white oak were left during previous treatment. Fence runs through stand under powerline splitting approximately 1/3 or the stand off on in the NE corner.</p> <p>OLD Treatment: Clearcut stand and leave clumps/groups of healthy oak for mast production and visual mgt. Remove scattered oak from dense aspen areas to encourage best aspen reproduction possible. Stand was final harvested as of 6/30/05. Sale # 720629901.</p>
2	4131 - Aspen, Oak	Poletimber Well	10.6	42	51-80	<p>This stand is a poor quality aspen stand adjacent to the air to ground bombing range. Mostly trembling aspen w/ more BT in N. half. Some larger diameter mixed oak is also present. Final harvest to regenerate recommended, but may be impractical with small stand size and previous resistance to treat by military. Per military in Sept 2007- no treatment permitted within range. SJT</p> <p>The stand is inside the fence, but not marked for UXO</p>
3	4130 - Aspen	Poletimber Medium	7.6	42	51-80	<p>This stand is now inside the fence for the air to ground range and there is no access. This stand is a poor quality aspen stand adjacent to the air to ground bombing range inside the UXO area. Due to previous resistance to treatment by military, it is unlikely that they would allow treatment at this time. Per military Sept 2007- no treatment permitted within range. Since this is such a small isolated stand, hold for now. SJT</p>
5	4131 - Aspen, Oak	Sapling Well	214.8	17	Immature	<p>This stand is located inside of the air to ground range within area closed for UXO. Unable to access stand for inventory. From a distance, it appears to be mostly aspen with a mix of oak and red maple regenerating. This stand was harvested in 2001 and appears to be regenerating to aspen.</p>
6	413 - Aspen	Poletimber Medium	50.0	42	51-80	<p>No Access. Stand is within the fence and management was not approved by military in 2007. This stand is inside the fence for the air to ground range and there is no access. This stand is a poor quality aspen stand adjacent to the air to ground bombing range. Stand also contains ~10 sqft/ac of mixed red and white oak. At the west end, there is some scattered pole size Jack Pine. Per military in Sept 2007- no treatment permitted within range. SJT</p>
7	4125 - Black, N. Pin Oak	Poletimber Poor	449.1	68	1-50	<p>Stand is inside range 40 air to ground range. No access, stand is fenced in. This area is sparsely vegetated and highly disturbed from military activity. Most of the trees appeared to have fire scars and were poor quality. Inventory was completed from aerial photos and information from previous inventory.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
4	3302 - Low Density Conifer Trees	24.1	No	Stand is inside range 40 air to ground range. No access, stand is fenced in. This area is sparsely vegetated and highly disturbed from military activity. There are some scattered jack pine. This stand appears to have some areas with wet soils based on Aerial imagery. Inventory was completed from aerial photos.
8	320 - Upland Shrub	22.4	No	Stand is inside range 40 air to ground range. No access, stand is fenced in. This area is sparsely vegetated and highly disturbed from military activity. inventory was completed from aerial photos.
9	320 - Upland Shrub	1026.7	No	Stand is inside range 40 air to ground range. No access, stand is fenced in. This area is sparsely vegetated and highly disturbed from military activity. inventory was completed from aerial photos.