



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72248

Entry Year 2022

Acreage: 2,235

County Crawford

Management Area: Camp Grayling

**Revision Date:** 2020-04-03

**Stand Examiner:** Kevin Ehlert

### Legal Description:

Crawford County – Lovells Twp: T28N R02W, Sections 7, 15-20; Maple Forest Twp.: T28N R03W- Sections 12, 13, 24

Crawford County – Frederic Township, T27N R04W Sections 1, 2 and 3.

### 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.

### Soil and topography:

The compartment is flat to gently rolling. Soils are primarily Graycalm, Klacking, and Grayling Sands.

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

This compartment and surrounding area is 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. The agreement provides for use 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 treatments and associated activities with the National Guard to ensure they are compatible with military training needs. The majority of this compartment is inaccessible to the public due to the Range 40 Complex fence. There is excellent potential for unexploded ordinances within the fence boundary.

### Unique Natural Features:

### Archeological, Historical, and Cultural Features:

None known at this time.

### Special Management Designations or Considerations:

Military training and Range 40 complex. The East Branch AuSable River is a designated "Natural River" (HCVA). The entire Compartment is considered a Special Conservation Area (SCA), it is designated under "Research and Development" for military lands.

### Watershed and Fisheries Considerations:

The East Branch AuSable River meanders through section 18 of this compartment. This river is a designated "Natural River". Rivers and streams with this designation are considered High Conservation Value Areas (HCVA). Timber Lake and two other small bodies of water feeding the river are also encompassed by compartment 248. The entire portion of the river and the small lakes found in this compartment are within the fenced portion of Range 40 and are not accessible by public land users.

### Wildlife Habitat Considerations:

The range provides excellent habitat for species best suited to large open areas. The range has several fires annually and creates opportunities for plant species that have adapted to ecosystems which are prone to frequent fire events.

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

No known potential exists for commercial metallic mineral production in this part of the state. The closest active sand/gravel pit is just over two miles to the southeast. Sand & gravel potential appears to be good in the compartment. Antrim Shale gas production is occurring less than two miles to the west. No test wells have been drilled within the compartment, but there could be some Antrim potential. Due to low gas prices, potential for additional Antrim development in this area is considered low at this time. The entire compartment is within DMVA's Camp Grayling managed area, and all state-owned mineral rights are classified as non-leasable.

### Vehicle Access:

Access is poor. The southern boundary of the compartment is drivable along the range fence. The range fence boundary is easily accessible off of County Road 612 by forest 2-tracks and designated county roads.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

None at this time.

**Fire Protection:**

Range 40 is subject to frequent fire events created by military artillery. Burn out operations along fences boundaries and frequent monitoring help to limit fires to within the range boundaries. Sand and hills are the greatest limiting factors for fire equipment in the event of an escaped fire.

**Additional Compartment Information:**

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

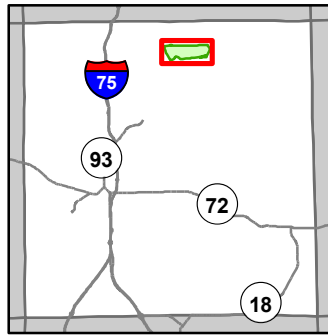
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

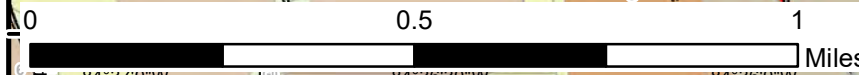
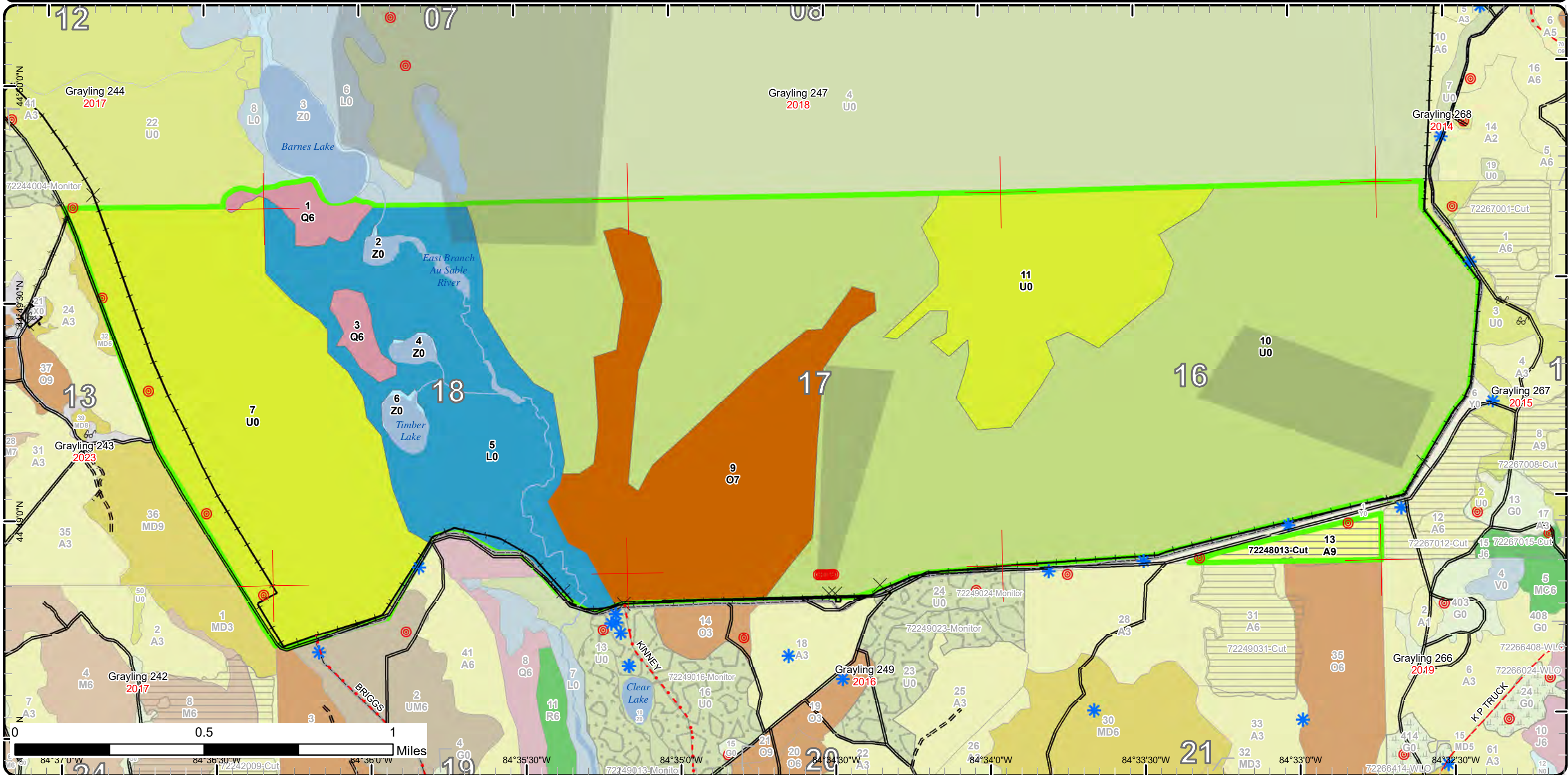
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 248  
 T28N, R02W, Sec. 7, 15-20  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2022  
 Acres: 2235.3 GIS Calculated  
 Examiner: Kevin Ehler  
 Map Revised: 5/19/2021  
 Map Phase: Post-Review



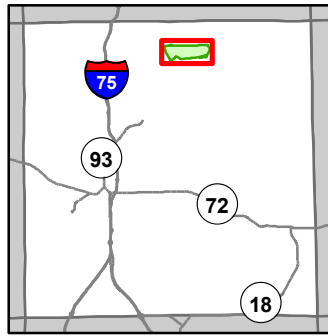
- Miris Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Fence
- Compartment Boundary
- Clearcut (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 629 - Mixed Non-forested Wetland
- \* Camp Grayling Monitoring Wells
- o Camp Grayling Observation Point
- o Camp Grayling Firing Point
- x Camp Grayling Gates
- + Camp Grayling Fence
- Camp Grayling Tank Trail
- Camp Grayling Range Area



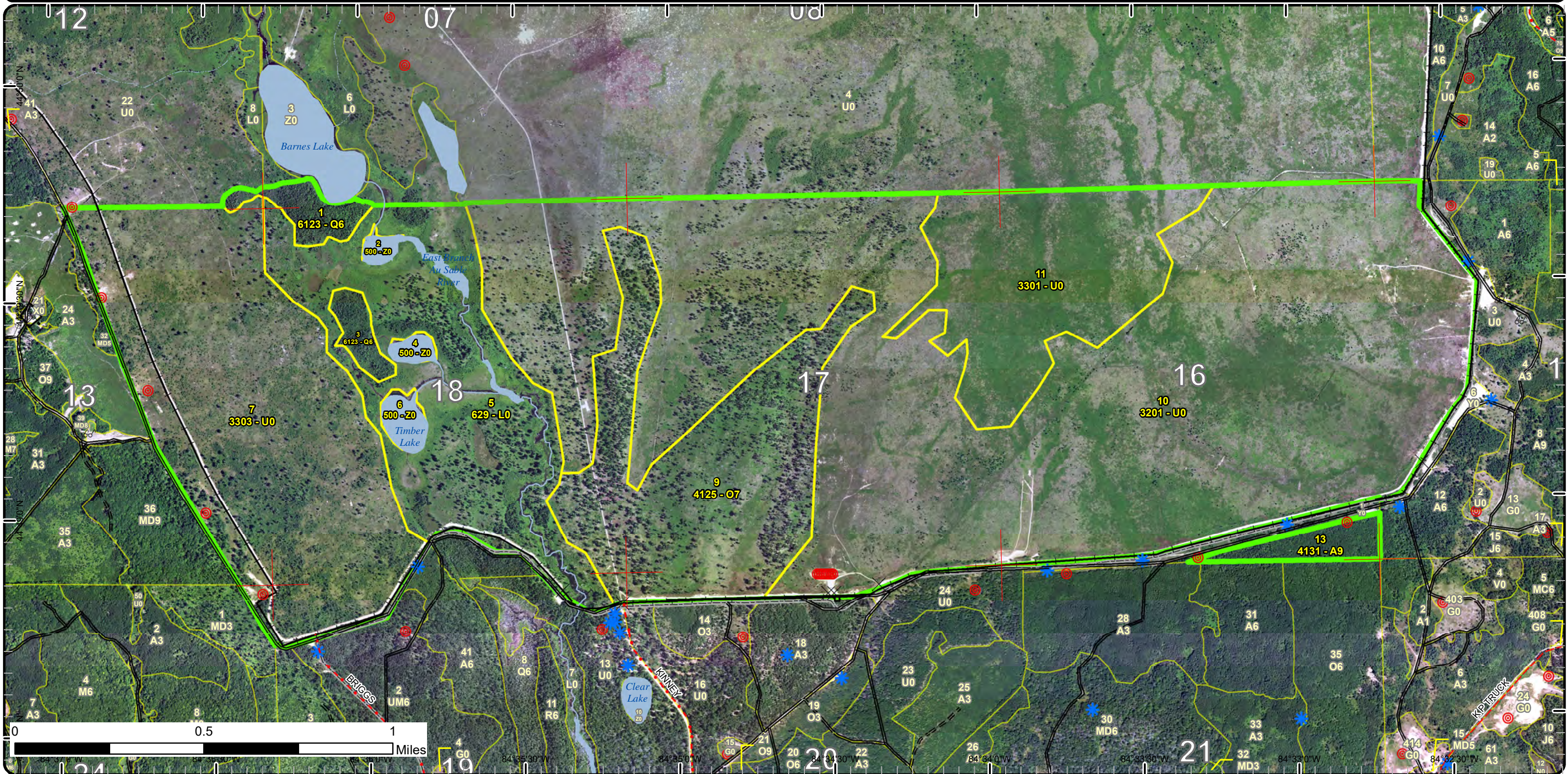
84°37'0"W 84°36'30"W 84°36'0"W 84°35'30"W 84°35'0"W 84°34'30"W 84°34'0"W 84°33'30"W 84°33'0"W

# Stand Boundary Map

Compartment: 248  
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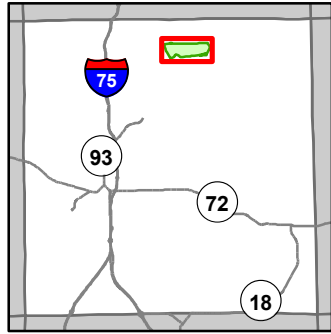


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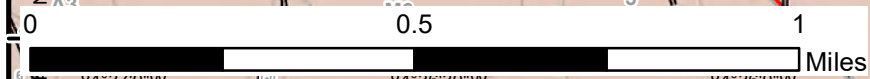
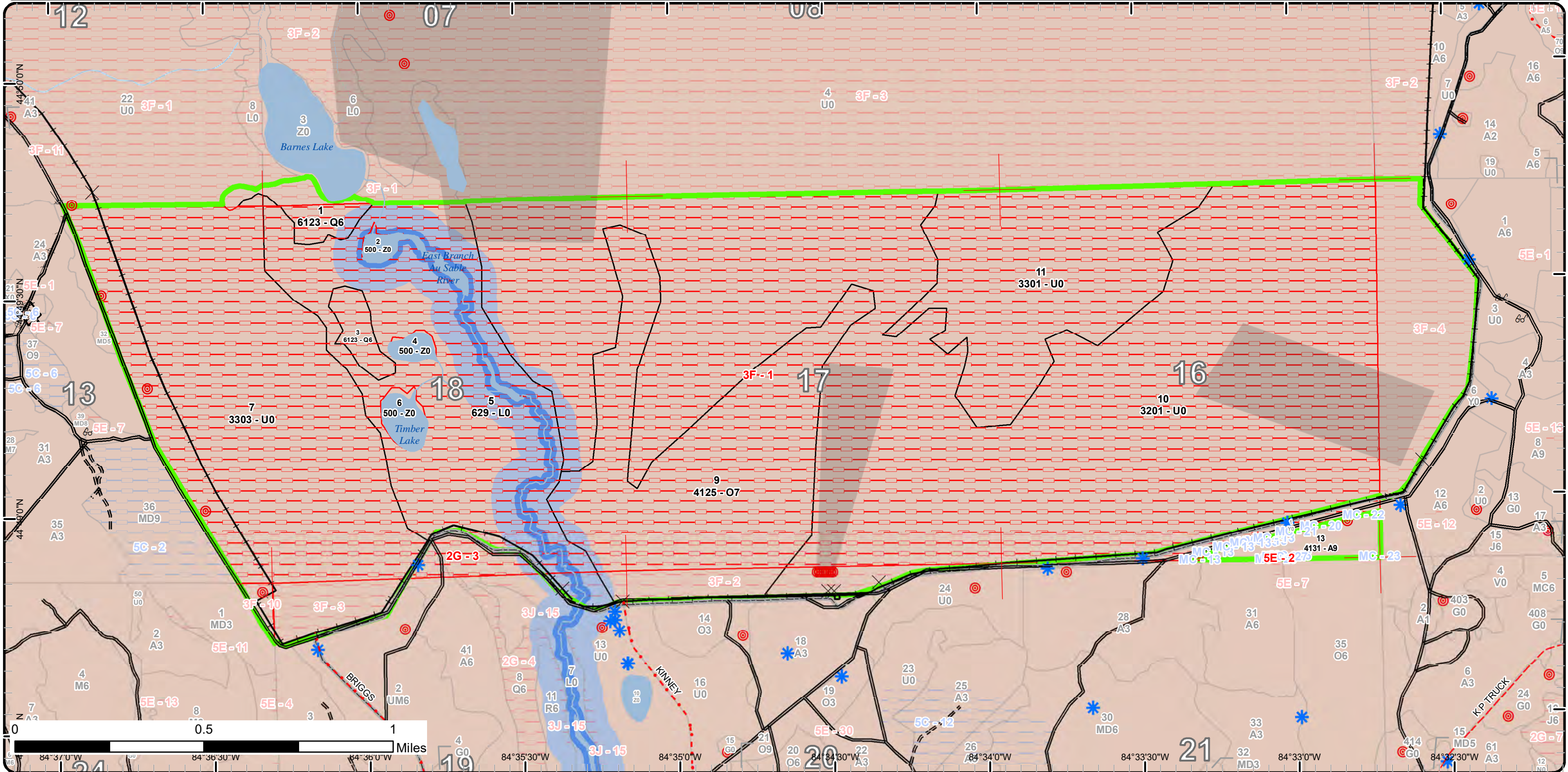


# Special Conservation Areas

Compartment: 248  
 T28N, R02W, Sec. 7, 15-20  
 County: Crawford  
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- Miris Corners
- Counties
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- County - Dirt Road (Seasonal)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Fence
- Compartment Boundary
- Unavailable
- Camp Grayling Tank Trail
- Camp Grayling Range Area
- 2G: Too wet (sensitive soils, does not include access issues)
- 3F: Military easement / lease
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Research, Development, and Military Lands
- \* Camp Grayling Monitoring Wells
- ⊗ Camp Grayling Observation Point
- ⊙ Camp Grayling Firing Point
- ✕ Camp Grayling Gates
- Camp Grayling Fence



84°37'0"W 84°36'30"W 84°36'0"W 84°35'30"W 84°35'0"W 84°34'30"W 84°34'0"W 84°33'30"W 84°33'0"W

Report 1 – Total Acres by Cover Type and Age Class



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+	Unnever-Aged	Total
Aspen	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	21
Low-Density Trees	567	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	567
Lowland Conifers	0	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	34
Lowland Shrub	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	250
Oak	0	0	0	0	0	0	0	0	0	242	0	0	0	0	0	0	0	0	242
Upland Shrub	1104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1104
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
<b>Total</b>	<b>1939</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>276</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2236</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 248

Total Compartment Acres: 2,235

Commercial Harvest - 20  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen		20	0	0	0	0	0	0	0	0	20
	<b>Total</b>	<b>20</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>20</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		20	0	0	0	0	0	0	0	0	20
Next Step		0	0	0	0	0	20	0	0	0	20
	<b>Total</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>41</b>



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	Habitat Cut
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**Approved Treatments:**

13	72248013-Cut	20.3	4131 - Aspen, Oak	Sawtimber Well	91	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest with retention, use drumming log specs</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, red maple and oak of medium stocking</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2011</p>											

**Total Treatment** 20.3  
**Acreage Proposed:**



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 248  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	MC	2G	3F	5E
		With Condition	Not Available					
21	20	1	0	Aspen	1			0
567	0	0	567	Low-Density Trees			567	
34	0	0	34	Lowland Conifers			34	
250	0	0	250	Lowland Shrub		0	250	
242	0	0	242	Oak			242	
1104	0	0	1103	Upland Shrub			1,103	
18	18	0	0	Water				
2,235	38	1	2,196	Total Forested Acres	1	0	2,196	0
	2%	0%	98%	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3F: Military easement / lease	2,022	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fenced Range 40							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	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	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.
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
1	6123 - Lowland Fir	Poletimber Well	20.6	81	Unspecified	N/A	No access due to bombing range. Part of Range 40. Prior data looks reasonable compared to nearby similar type outside of the fence and what I could see from perimeter road.																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>75</td> <td>Pole/Sap/Log</td> <td>8</td> <td>81</td> </tr> <tr> <td>Black Spruce</td> <td>13</td> <td>Pole</td> <td>8</td> <td>81</td> </tr> <tr> <td>Northern White Cedar</td> <td>2</td> <td>Pole</td> <td>8</td> <td>81</td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Pole</td> <td>8</td> <td>81</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td>81</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	75	Pole/Sap/Log	8	81	Black Spruce	13	Pole	8	81	Northern White Cedar	2	Pole	8	81	Tamarack	5	Pole	8	81	White Pine	5	Log/Pole	10	81
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2	500 - Water	Nonstocked	3.9		Unspecified	No	Inside fence for Range 40.																														
3	6123 - Lowland Fir	Poletimber Well	13.4	81	Unspecified	N/A	No access due to bombing range. Part of Range 40. Prior data looks reasonable compared to nearby similar type outside of the fence and what I could see from perimeter road.																														
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Tamarack	10	Pole	1																																		
4	500 - Water	Nonstocked	4.4		Unspecified	No	Inside fence for Range 40.																														
5	629 - Mixed non-forested wetland	Nonstocked	249.9		Unspecified	No	This is a drainage area that runs through the range. 3 small lakes drain into the river. There are ridges running through the stand but the water table is near the surface. Bb, huckleberry, alder, and bracken fern visible through the snow. The higher ground may have been picked through in the early 90's. This stand burns almost annually. Inside fence for Range 40.																														
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>Low</td> <td></td> <td>Log</td> </tr> <tr> <td>Black Spruce</td> <td>Trace</td> <td></td> <td>Pole</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td></td> <td>Pole</td> </tr> <tr> <td>Deciduous Saplings</td> <td>Trace</td> <td></td> <td>Pole</td> </tr> <tr> <td>Northern White Cedar</td> <td>Trace</td> <td></td> <td>Pole</td> </tr> <tr> <td>Conifers</td> <td>Trace</td> <td></td> <td>Pole</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low		Log	Black Spruce	Trace		Pole	Balsam Fir	Low		Pole	Deciduous Saplings	Trace		Pole	Northern White Cedar	Trace		Pole	Conifers	Trace		Pole		
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6	500 - Water	Nonstocked	9.3		Unspecified	No	Timber Lake, inside fence for Range 40.																														
7	3303 - Mixed Low Density Trees	Nonstocked	380.0		Unspecified	No	This stand burns almost annually. Extensive sweet fern(sticking out of the snow). Part of Range 40. Stand within the fence.																														
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Aspen (spp.)</td> <td>Low</td> <td></td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Trace</td> <td></td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td></td> <td>Pole</td> </tr> <tr> <td>Oak (spp.)</td> <td>Trace</td> <td>Unspecified</td> <td>Sapling</td> </tr> <tr> <td>Pin Cherry</td> <td>Low</td> <td></td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Trace</td> <td></td> <td>Sapling</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	Aspen (spp.)	Low		Sapling	Red Maple	Trace		Sapling	Red Pine	Low		Pole	Oak (spp.)	Trace	Unspecified	Sapling	Pin Cherry	Low		Sapling	Jack Pine	Trace		Sapling		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
<b>9</b>	4125 - Black, N. Pin Oak	Sawtimber Poor	241.7	86	1-50	N/A	A little over 25% canopy cover of mixed oak and pine. Some harvesting occurred within the fence in the early 90's. Some pockets appear to have decent oak regeneration in sub canopy. This area burns almost annually. Inside fence for Range 40.																																																							
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<b>10</b>	3201 - Sweet Fern	Nonstocked	1,103.8		Unspecified	No	A berm parallels the fence and it is tough to get a good look in some areas. Majority of stand is open grass land/sweet fern with scattered oak and pockets of aspen. Sweet fern, bracken, bb, cherry, raspberry, and blackberry present. This stand burns almost annually. Inside fence for Range 40.																																																							
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<b>11</b>	3301 - Low Density Deciduous Trees	Nonstocked	187.2		Unspecified	No	Previous data mentions scattered amounts of aspen clones and stump sprouts. No access, inside Range 40 fence.																																																							
<b>13</b>	4131 - Aspen, Oak	Sawtimber Well	21.1	91	Unspecified	N/A	Stand is a part of Timber Sale # 72-629-16 (KP Trail Mix) and will be final harvested. Management objective is a mix of aspen, red maple and oak at medium stocking level.																																																							
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