



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72188

Entry Year 2022

Acreage: 1,205

County Crawford

Management Area: Camp Grayling

**Revision Date:** 2020-06-18

**Stand Examiner:** Scott McClarren

### Legal Description:

Beaver Creek Township, T25N R04W, Sections 8 and 9

### Identified Planning Goals:

To maintain forest health, productivity, sustainability, and diversity throughout the compartment while providing for multiple use, visual management, and military training needs as allowed by the twenty year management agreement.

### Soil and topography:

Soils are primarily Grayling, Graycalm, and Kalkaska sands. Topography is hilly with steep slopes, ridges, and valleys.

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

State ownership is contiguous with one 80 acre private parcel located in the north half of section 9. This state land is under the 20 year management agreement with the Michigan National Guard. The agreement allows for camping and maneuvers, but does not allow use of heavy equipment or high intensity live ammunition firing. Tracked vehicles are prohibited on these lands except to cross on designated trails. Wheeled vehicles are restricted to existing trails and are not to be driven cross country. MDNRE management activities take precedence on these lands, though management activities are tailored in order to be compatible with National Guard training needs. Multiple military firing and observation points associated with the Range 13 Complex are located in section 8. The Beaver Creek Gas and Oil Field is active in this area.

### Unique Natural Features:

The state threatened rough fescue (*Festuca scabrella*) may occur in the area. Prairie or pale agoseris (*Agoseris gluaca*), Hill's thistle (*Cirsium hillii*), and Alleghany plum (*Prunus alleghaniensis* var. *davisii*) are species of special concern with potential to appear in the compartment. These plant species are most often found in grassy openings and open areas of jack pine. Currently there are no known Ecological Reference Areas in this compartment.

### Archeological, Historical, and Cultural Features:

Operations could have potential to impact features within section 9 according to the database.

### Special Management Designations or Considerations:

The entire Compartment is considered a Special Conservation Area (SCA), it is designated under "Research and Development" for military lands. Range 13 (mortar range) is found in the western portion of section 8.

### Watershed and Fisheries Considerations:

This compartment is in Beaver Creek Township, and includes parts of both the Northern Lake Huron Management Unit and Central Lake Michigan Management Unit. There is no surface water in this compartment, so Fisheries has no concerns at this time.

### Wildlife Habitat Considerations:

Make conscious efforts to expand the oak and aspen components. Promote species and structural diversity during harvest operations.

### 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 more than six miles away. Sand & gravel potential appears to be good in the compartment. Part of the Beaver Creek oil & gas field is located in the compartment. The field is currently undergoing secondary recovery operations. There could be potential for additional production or injection wells within the compartment. Most State-owned mineral rights in the compartment are currently leased and held by production.

### Vehicle Access:

The compartment is easily accessible by forest roads, pipeline access routes, and Annis Pit Rd. Sandy soils and hilly terrain may make access for 2-wheel drive vehicles difficult.

**Survey Needs:**

The western corners of the private 80 acres located in section 9 were not located during inventory.

**Recreational Facilities and Opportunities:**

Hunting and dispersed recreational use occurs throughout the compartment.

**Fire Protection:**

Areas with oil and gas activity are designated “no plow zones” do to the presence of H2S gas. The hilly terrain will make it difficult for water units to access certain areas. Range 13 is prone to frequent fire events. The majority of timber found in this compartment is deciduous.

**Additional Compartment Information:****The following reports from the Inventory are attached:**

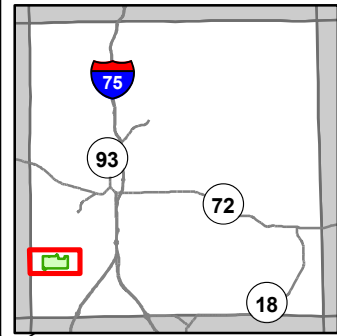
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

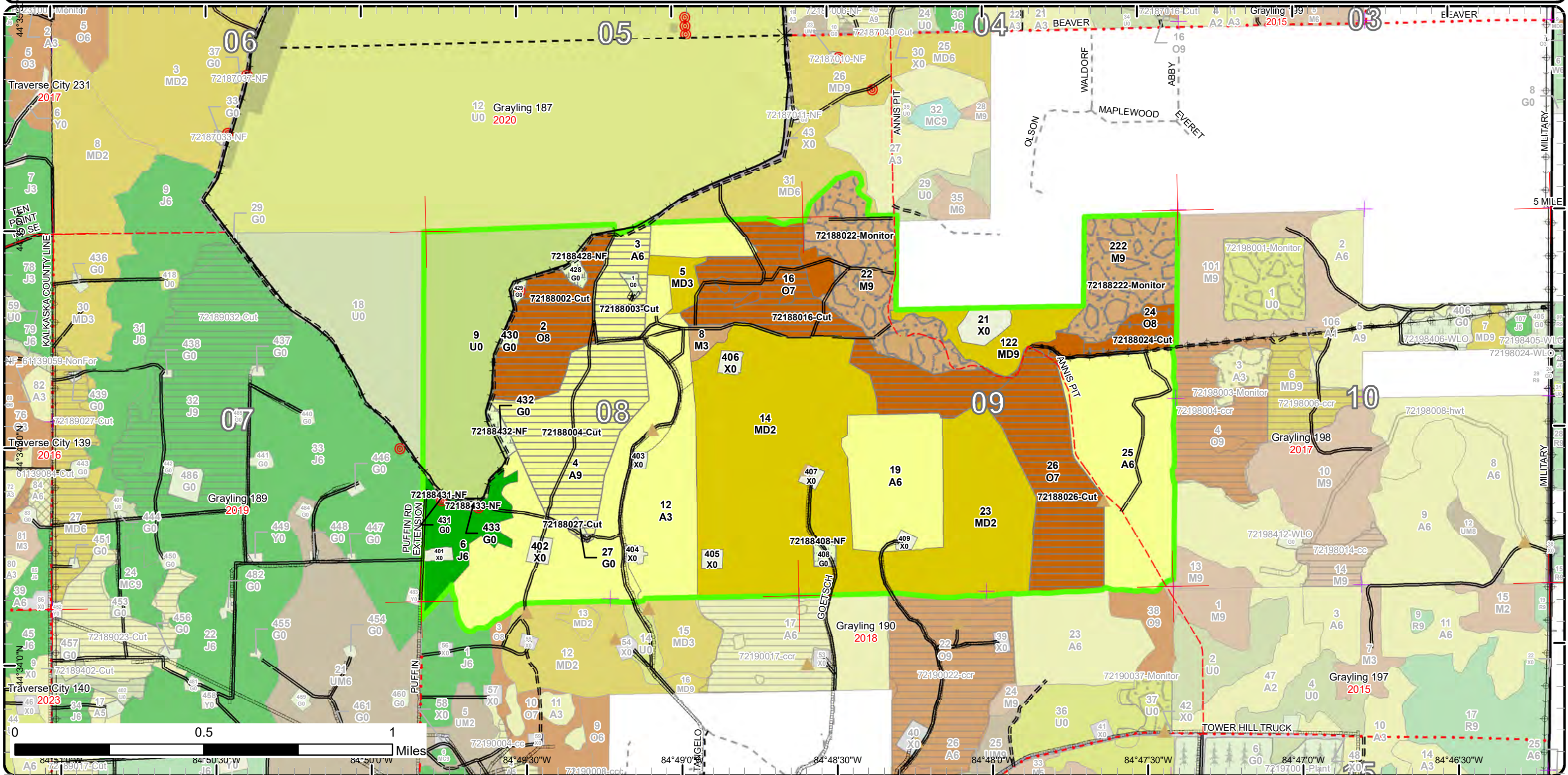
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 188  
 T25N, R04W, Sec. 08-09  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2022  
 Acres: 1205.1 GIS Calculated  
 Examiner: Scott McClarren  
 Map Revised: 5/19/2021  
 Map Phase: Post-Review

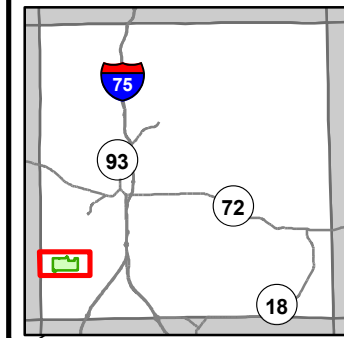


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Berms
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 790 - Other Bare/Sparsely Vegetated
- ⊙ Camp Grayling Observation Point
- ⊕ Camp Grayling Firing Point
- ⊕ Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Range Area

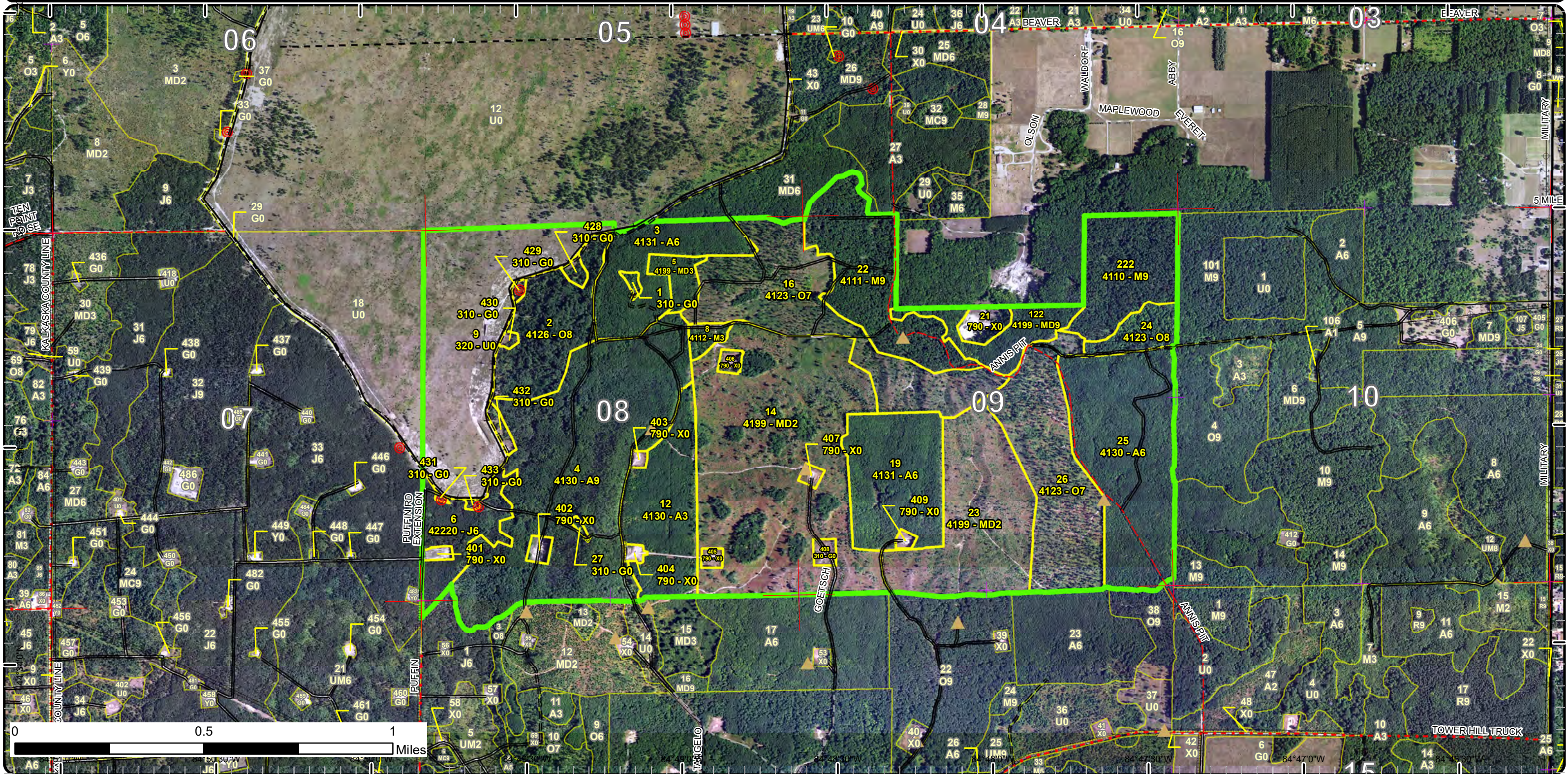


# Stand Boundary Map

Compartment: 188  
 T25N, R04W, Sec. 08-09  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
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 Acres: 1205.1 GIS Calculated  
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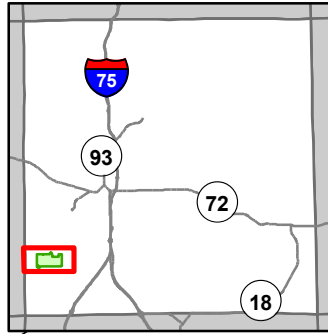


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
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- Federal / State / County - Paved Road
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- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
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- X Camp Grayling Gates
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- Camp Grayling Range Area

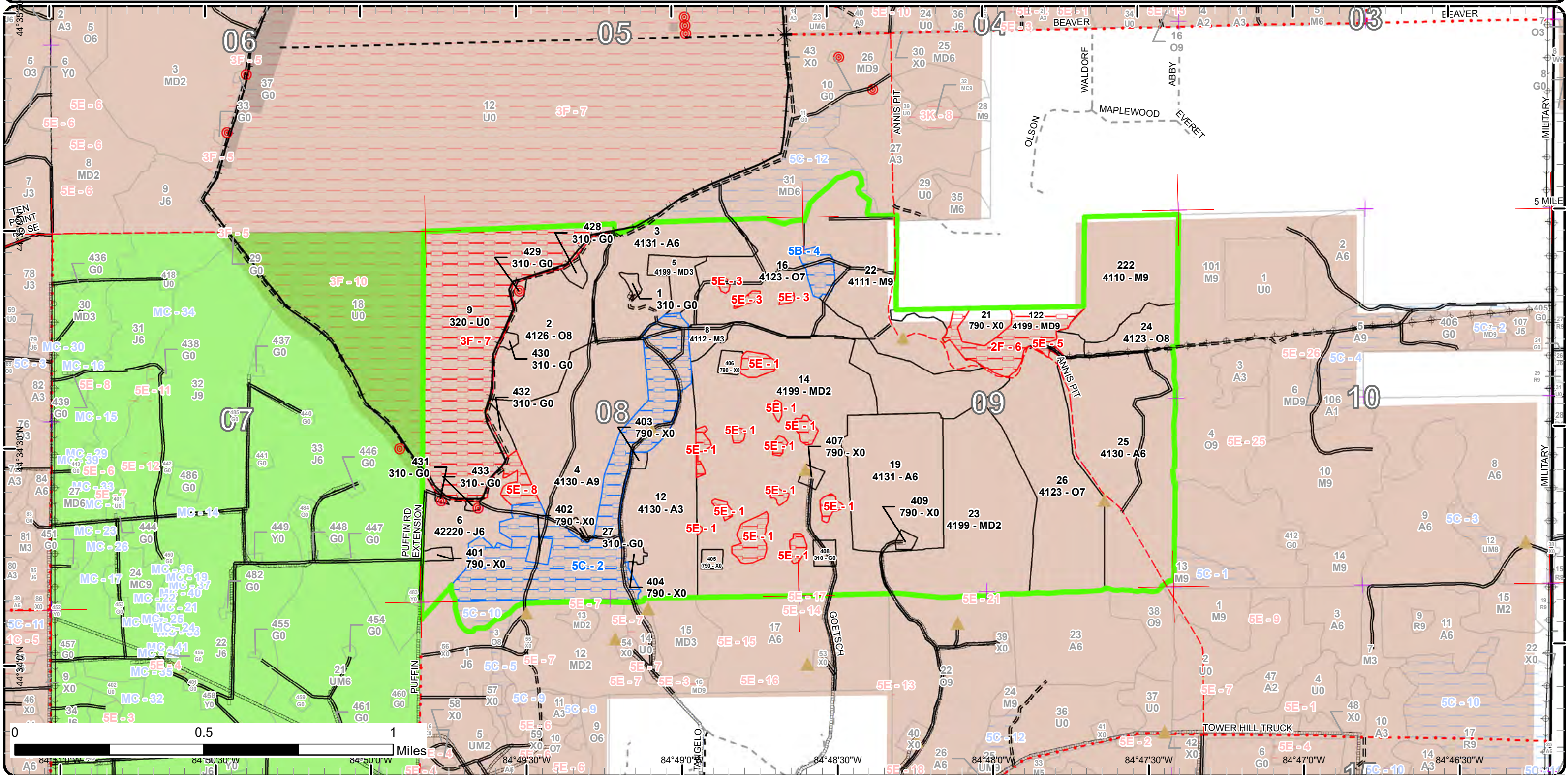


# Special Conservation Areas

Compartment: 188  
 T25N, R04W, Sec. 08-09  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2022  
 Acres: 1205.1 GIS Calculated  
 Examiner: Scott McClarren  
 Map Revised: 5/19/2021  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Berms
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3F: Military easement / lease
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Research, Development, and Military Lands
- ⊕ Camp Grayling Observation Point
- ⊕ Camp Grayling Firing Point
- × Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Range Area





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	51	56	137	0	170	0	0	0	0	0	0	0	0	0	0	0	414
Bare/Sparsely Vegetated	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Jack Pine	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	261	9	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	292
Northern Hardwood	0	0	5	0	0	0	0	0	0	106	0	0	0	0	0	0	0	0	111
Oak	0	0	0	0	0	0	0	0	0	0	205	0	13	0	0	0	0	0	218
Upland Shrub	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
<b>Total</b>	<b>143</b>	<b>261</b>	<b>65</b>	<b>56</b>	<b>137</b>	<b>0</b>	<b>198</b>	<b>0</b>	<b>0</b>	<b>128</b>	<b>205</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1206</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 188

Total Compartment Acres: 1,205

Commercial Harvest - 304  
 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	96	0	0	0	0	0	0	0	0	96
Herbaceous Openland	2	0	0	0	0	0	0	0	0	2
Oak	193	0	0	0	0	13	0	0	0	206
<b>Total</b>	<b>290</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>304</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	304	0	0	0	0	106	0	8	0	418
Next Step	0	0	0	0	0	290	0	0	0	290
<b>Total</b>	<b>304</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>396</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>708</b>



Stand Name	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:**

<b>1</b>	<b>72188001-Cut</b>	1.3	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Harvest all stems in and around stand. Add military specs.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> None  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>2</b>	<b>72188002-Cut</b>	44.6	4126 - White, Black, N. Pin Oak	Sawtimber Medium	99	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut no retention. All trees must be cleared for visibility from observation points. Do not operate in maintained wildlife openings along road. Add military specs. Protect hawthorn and serviceberry.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>3</b>	<b>72188003-Cut</b>	22.3	4131 - Aspen, Oak	Poletimber Well	39	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut no retention as approved through compartment review. Add military specs. Add grouse spec.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen and oak are acceptable species.  <u>Regen:</u>  <u>Other</u> Stand is being treated early at request of the military.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											





Standard

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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<b>4</b>	<b>72188004-Cut</b>	73.2	4130 - Aspen	Sawtimber Well	53	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all stems greater than 2". Retention will be designated outside the treatment area in the remainder of the stand that will be harvested next year of entry. The east and west sides of treatment have been drawn to follow logical boundaries while opening the line of sight from the observation point to the range with regards to the azimuths provided by the military. East boundary should run ridge top to allow equipment to turn around this treatment and next. Add military specs. Add grouse specs. Do not operate in maintained wildlife openings.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen is the target species. Oak and maple are also acceptable species.

Regen:

Other All stems in treatment area must be removed for observation point visibility. Harvest stands 28 and 32 of Comp 186 at same time.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>16</b>	<b>72188016-Cut</b>	77.7	4123 - Red Oak	Sawtimber Poor	91	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Harvest all stems 1" and greater except do not cut any pine. Long-term retention will be a combination of the islands established during previous harvest and the mature scattered pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak is the desired species, but any combination of oak (10-20%), maple, aspen, or pine is acceptable. Expect a heavy red maple component.

Regen:

Other About 5 acres in northeast was excluded from treatment area because there are no merchantable stems. Check with military to see if standard military specs are required.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>22</b>	<b>72188022-Monitor</b>	60.6	4111 - S.Maple, Hard Mast Association	Sawtimber Well	88	81-110	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Check regen in gaps during next inventory. Follow advice and guidance out of hardwood management plan.

Specs:

Next Step

Treatments:

Acceptable Northern hardwoods and/or oak in regen gaps.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2029



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>24 72188024-Cut</b>	13.3	4123 - Red Oak	Sawtimber Medium	111	1-50	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable stems except oak greater than 26". Leave retention around sugar maple regen. Protect regen.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Check with military to see if standard military specs are required.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>26 72188026-Cut</b>	70.4	4123 - Red Oak	Sawtimber Poor	93	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 1" and greater except do not cut any pine. Long-term retention will be a combination of the island established during previous harvest and the mature scattered pine.</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> Oak is the desired species, but any combination of oak (10-20%), maple, aspen, or pine is acceptable. Expect a heavy red maple component.</p> <p><u>Regen:</u></p> <p><u>Other</u> Northeast corner was excluded from treatment area since there's only a few mature trees in there. Check with military to see if standard</p> <p><u>Comment:</u> military specs are required.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>27 72188027-Cut</b>	0.8	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Clearcut no retention. Add military 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> None</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 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>222 72188222-Monitor</b>	45.4	4110 - Sugar Maple Association	Sawtimber Well	88	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Check regen in gaps during next inventory. Follow advice and guidance out of hardwood management plan.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Northern hardwoods and/or oak in regen gaps.</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 /2029</p>										
<b>408 72188408-NF</b>	2.6	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2021</p>										
<b>428 72188428-NF</b>	2.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> This maintenance will be carried out through a partnership between the Military, DNR-WLD and the National Wild Turkey Federation.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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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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429	72188429-NF	1.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Specs: Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species..

Next Step Treatments:

Acceptable Regen:

Other Comment: This maintenance will be carried out through a partnership between the Military, DNR-WLD and the National Wild Turkey Federation.

Site Condition

Proposed Start Date: 10/1 /2021

430	72188430-NF	1.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
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Prescription Specs: Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, tree and shrub planting and herbicide application.

Next Step Treatments:

Acceptable Regen:

Other Comment: This maintenance will be carried out through a partnership between the Military, DNR-WLD and the National Wild Turkey Federation.

Site Condition

Proposed Start Date: 10/1 /2021

431	72188431-NF	0.4	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Specs: Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.

Next Step Treatments:

Acceptable Regen:

Other Comment: This maintenance will be carried out through a partnership between the Military, DNR-WLD and the National Wild Turkey Federation.

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
432 72188432-NF	2.6	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This maintenance will be carried out through a partnership between the Military, DNR-WLD and the National Wild Turkey Federation.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
433 72188433-NF	0.6	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This maintenance will be carried out through a partnership between the Military, DNR-WLD and the National Wild Turkey Federation.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

**Total Treatment Acreage Proposed: 420.1**

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren : Examiner

Compartment: 188  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres <i>With Condition</i>	Acres Not Available
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### Dominant Site Conditions

	Total Acres	Acres Available	Acres <i>With Condition</i>	Acres Not Available	Dominant Site Conditions				
					5B	5C	2F	3F	5E
414	317	<b>92</b>	5	Aspen		<b>92</b>			5
21	21	<b>0</b>	0	Bare/Sparsely Vegetated					
13	13	<b>0</b>	0	Herbaceous Openland					
28	28	<b>0</b>	0	Jack Pine					
292	252	<b>0</b>	40	Mixed Upland Deciduous			19		20
111	111	<b>0</b>	0	Northern Hardwood			0		
218	209	<b>5</b>	3	Oak	<b>5</b>				3
109	0	<b>0</b>	109	Upland Shrub				109	
1,205	951	<b>97</b>	157	Total Forested Acres	<b>5</b>	<b>92</b>	19	109	29
	79%	<b>8%</b>	13%	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	<b>5E: Long-Term Retention</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Part of stand 14's designated retention for harvest #001-12.							
2	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	86	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Delay treatment for green-up purposes.							
3	Unavailable	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention islands left when stand 16 was cut (72-001-12-01).							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren : Examiner

Compartment: 188  
Year of Entry: 2022

4	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> No merchantable stems, so excluded from treatment area. Remove site condition once stand 16 is harvested.							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention islands left when stand 26 was cut (72-001-12-01).							
6	<b>Unavailable</b>	<b>2F: Too steep</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep portion around Annis Pit, excluded from stand 22's harvest due to operability concerns.							
7	<b>Unavailable</b>	<b>3F: Military easement / lease</b>	109	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Range 13 Impact area, access is restricted to only military personnel. Edge call from fence.							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-term retention set aside for stand 4 outside of observation point clearing treatment in 2022 YOE. Long-term retention can be moved, broken up, or adjusted during layout if more suitable location(s) are found. Must total minimum 5.1 acres (3% of parent stand). (SM)							

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
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**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.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
1	310 - Herbaceous Openland	Nonstocked	1.3	0	Unspecified	Managed Opening	Military observation point (OP-B).																																																		
2	4126 - White, Black, N. Pin Oak	Sawtimber Medium	44.6	99	51-80	N/A	Aspen, maple and birch removed in 2006 through Mortar Range Aspen (72-007-02). Stand contains some scattered X-log oak and a couple greater than 26". Stand borders range.Old comments: Good looking oak in areas. Some 4 log trees. North end of stand starts to transition into a U-type, poorer quality in the southern portion also. The aspen regeneration is found in pockets between canopy gaps. Heavy browse.																																																		
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3	4131 - Aspen, Oak	Poletimber Well	42.8	39	111-140	N/A	Stand contains some steep slopes. Old comments- Good looking mixed stand in most areas. The oak is doing well on top of the ridge. Military observation point present in stand (OP-B).																																																		
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4	4130 - Aspen	Sawtimber Well	170.2	53	111-140	N/A	Stand burned in Fletcher Rd Fire May 8, 1968. Significant oak mortality, mostly on west side of ridge side of stand on ridge. Contains steep slopes. Sour gas and petroleum pipelines along with buried electrical cables run North-South through middle of stand along unmapped 2-track. Observation point, OP-C.Old comments: A long ridge of aspen. Size and quality is variable depending on aspect and proximity to motar range. Pockets of un-merch. Entire stand was treated around 1957. Disturbance by military is the most likely reason for variety of quality. Pockets of advanced regeneration were left in 1957 and are now pockets of sawlog oak and aspen. A military observation point found in stand.																																																		
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5	4199 - Other Mixed Upland Deciduous	Sapling Well	8.6	15	Immature	N/A	Stand Clearcut in 2006 through Mortar Range Aspen (72-007-02). Stand has a heavily browsed oak component in understory.Old Comment; Clumps of red maple and oak with scattered aspen. Stand is a hill. Browse evident.																																																		
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6	42220 - Natural Jack Pine	Poletimber Well	27.8	53	51-80	N/A	Stand burned in Fletcher Rd Fire May 8, 1968. Some sort of pipeline running through stand. JP should hold another 10 years.Old comments: Jack pine is around 30' tall. Fire origin regen from range fires? Scattered northern pin oak and pockets of aspen. A few sawlog size trees present in the stand.																																																		
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<b>8</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	4.7	15	Immature	N/A	Stand Clearcut in 2006 through Mortar Range Aspen (72-007-02).  New stand added. Harvested last year of entry, no residual. Clumps of red maple and oak.																																															
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<b>9</b>	320 - Upland Shrub	Nonstocked	109.3		Unspecified	No	Range 13 Impact area, access is restricted to only military personnel. Edge call from fence.																																															
<b>12</b>	4130 - Aspen	Sapling Well	50.7	15	Immature	N/A	Stand Clearcut in 2006 through Mortar Range Aspen (72-007-02). Aspen overtopped a lot of the maple. Old Comment: Pockets of good looking aspen regen. Fair amount of red maple. Some very good looking oak stump sprouts. Areas of browse and spotty regen.																																															
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<b>14</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	182.4	6	Immature	N/A	Stand management objective changed from Oak/Aspen to Upland Mixed Deciduous through 2022 compartment review. Large stand with maple steady throughout. Oak component mixed in through most of stand. Pockets of aspen scattered throughout. Stand is fully stocked. Most individual oak stems left as retention died from shock. Retention islands (multi-part stand 27) was merged back into stand 14..  Old comments-Half of the stand was final harvested by August 2014 and half by May 2015 (#001-12), leaving ~3 sq. ft. of marked oak residual and all pine in addition to retention islands. A few of the islands were too small to split out in the retention island stand 27, but they show in the Site Condition layer. Individual tree dieback & mortality was noted when entering the stand to cut. Dead & declining oak (staghorned crown dieback) that were encountered during harvest contract administration were numbered with pink paint to indicate the percent mortality (ie: "7d" meant 70% dead), but the paint was fading by the time of sale closure. Exposed cambium on live residual oak that were noticed to be damaged during harvesting was covered with aero paint (pink & some green). Old Comments: Aspen and red maple removed 20 years ago. Understory is about 20' tall. Very hilly terrain. Very little oak in the understory but there are pockets where the oak regeneration is well above the browse line. Minor conifer component also found in stand. Some poor quality timber located along ridges in southern portion of stand. A few islands of A3/M3 can be found throughout.																																															
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<b>16</b>	4123 - Red Oak	Sawtimber Poor	85.4	91	1-50	N/A	Stand failed to meet oak/aspens regen objective. About 85% of regen is red maple. 10% oak, 5% aspen. Small pocket of white pine regen on east side that was protected from harvest. A couple small pockets of good oak regen found but mostly maple throughout.																																																																														
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<b>19</b>	4131 - Aspen, Oak	Poletimber Well	56.1	27	1-50	N/A	Very hilly stand. Heavy oak component in understory. Old comment- Average looking aspen. A few areas dominated by red maple clumps. Oak looks good																																																																														
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<b>21</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	6.8			No	An old gravel pit. Knappweed present.																																																																														
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<b>22</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	60.6	88	81-110	N/A	Average BA is 82 sqft/ac with QMD of 10.3". Regen gaps are smaller than those in stand 222.																																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**23** 4199 - Other Mixed Upland Deciduous Sapling Medium 79.0 7 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Sapling	2	
White Pine	2	Sapling/Pole	4	
Red Oak	18	Sapling	1	
White Oak	25	Sapling	1	
Red Maple	40	Sapling	1	7
Bigtooth Aspen	10	Sapling	1	

Stand management objective changed from Oak/Aspen to Upland Mixed Deciduous through 2022 compartment review. Overall, stand came back fully stocked. Oak, maple and pockets of aspen. Some pole sized red pine was protected during harvest. Heavy maple towards the south.

Old comments- This west side of the original stand 23 was final harvested by June 2014 (#001-12), leaving ~2 sq. ft. of marked oak residual and all pine. Individual tree dieback & mortality was noted when entering the stand to cut. Dead & declining oak (staghorned crown dieback) that were encountered during harvest contract administration were numbered with pink paint to indicate the percent mortality (ie: "7d" meant 70% dead), but the paint was fading by the time of sale closure. Exposed cambium on live residual oak that were noticed to be damaged during harvesting was covered with aero paint (pink & some green). Old comments: Hilly. Some mature BT aspen still found in stand. Red pine also present. This stand will look like the adjacent oak stand to the west in 15yrs.

**24** 4123 - Red Oak Sawtimber Medium 13.3 111 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Pole/Log	8	
Red Maple	2	Pole	8	
Red Oak	73	XLog/Log	18	111
White Oak	5	Log/XLog	16	
White Pine	3	Log	15	
Red Pine	2	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	>20 feet	Sapling
Red Maple	Medium	Variable	Sapling
Beech	Medium	Variable	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling
White Pine	Medium	Variable	Sapling
Ironwood	Low	Variable	Sapling
Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Red Oak	Medium	Variable	Sapling
Black Cherry	Medium	Variable	Sapling

Dense and patchy species composition in understory. Pockets of red maple, aspen, sugar maple, oak, beech, and white pine depending where you located in stand. A lot of the oak is x-log size. Aspen and red maple removed through Fire Tower Oak sale #72-054-02 in 2015.

Old comments- Bigger diameter along the power line, trees get smaller in the north. Limited browse. Many oak seed/saps seem to be doing well. A couple of seed sources for the white pine, seedlings starting to establish.

**25** 4130 - Aspen Poletimber Well 94.3 30 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Sapling	5	
Red Oak	10	Pole/Sapling	5	
Paper Birch	2	Pole/Sapling	5	
Bigtooth Aspen	70	Pole	6	30
White Pine	3	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	>20 feet	Sapling
White Pine	Low	Variable	Sapling
Witch Hazel	High	5 - 10 feet	Tall Shrub
Cherry (spp.)	Low	Variable	Tall Shrub
White Oak	Low	Variable	Sapling
Red Oak	Medium	Variable	Sapling

Stand is pole size aspen with pockets of pine. Red oak found through most of stand. Old comments- Healthy looking stand, most of the aspen is doing well. The red oak seems to be doing great. White pine and red pine present, majority is found in the sub-canopy. Miscellaneous hwdws also found throughout.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>26</b>	4123 - Red Oak	Sawtimber Poor	74.5	93	1-50	N/A	Red maple dominating understory after shelterwood. Radio tower in north east corner of stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	3	Log	12		Red Maple	Full	10 - 20 feet	Sapling
Red Oak	87	Log	14	93	White Oak	Low	Variable	Sapling
White Oak	10	Log	12		Bigtooth Aspen	Medium	Variable	Sapling

Old comments- This east side of the original stand 23 was seed tree harvested by September 2014 (#001-12), leaving ~20 sq. ft. of marked oak residual and all pine. Individual tree dieback & mortality was noted when entering the stand to cut. Dead & declining oak (staghorned crown dieback) that were encountered during harvest contract administration were numbered with pink paint to indicate the percent mortality (ie: "7d" meant 70% dead), but the paint was fading by the time of sale closure. Exposed cambium on live residual oak that were noticed to be damaged during harvesting was covered with aero paint (pink & some green). Canopy data was roughed-in from the pre-harvest stand data. Old comments: Hilly. Some mature BT aspen still found in stand. Red pine also present. This stand will look like the adjacent oak stand to the west in 15yrs.

<b>27</b>	310 - Herbaceous Openland	Nonstocked	0.8	0	Unspecified	Managed Opening	Observation point, OP-C.
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<b>122</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	22.0	88	111-140	N/A	Split from original stand 22. Not harvested due to steep conditions. East half of stand is aspen/oak dominated while west side is sugar maple with scattered oak.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	31	Log/Pole	10	88	Beech	Medium	Variable	Sapling
Red Maple	2	Log/Pole	10		White Pine	Trace	Variable	Sapling
Basswood	4	Log/Pole	10		Ironwood	High	Variable	Sapling
Beech	2	Log/Pole	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Oak	30	Log	14		Sugar Maple	Low	Variable	Sapling
Paper Birch	2	Pole	7					
Bigtooth Aspen	29	Log	16					

Original stand (22) comments-100 acres of the stand were group selection harvested by January 2015 (72-001-12-01), cutting orange-marked stems and all white ash and aspen except for widely-scattered ash & aspen that were marked to leave in green. The untreated portions of the stand were on steep terrain around Annis Pit and a narrow strip east of Annis Pit Road in the NW. 8 acres in the NW were originally part of Comp 187 stand 30, prescribed for concurrent treatment. Old comments: Nice looking oak along western and southern stand lines. Hilly, portions too steep for equipment. Lower quality timber in the north along the county rd. Much of the western portion of stand was harvested around 1957. Annis Pit Road is difficult to drive throughout the year without 4-wheel drive.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
<b>222</b>	4110 - Sugar Maple Association	Sawtimber Well	45.4	88	51-80	N/A	Was originally stand 22, but was split into 3 separate stands due to distance between inoperable portion (stand 122). Stand 222 had larger canopy gaps created through harvest than stand 22. Avg BA is 72 sqft/ac with a QMD of 11.1".																																															
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Red Oak	6	Log	16																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																			
Beech	Medium	Variable	Sapling																																																			
Ironwood	Medium	5 - 10 feet	Sapling																																																			
Blackberry/Raspberry	High	< 5 feet	Tall Shrub																																																			
Sugar Maple	Low	< 5 feet	Sapling																																																			
White Ash	Medium	< 5 feet	Sapling																																																			
<b>401</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.7		Unspecified		Oil well, Breitburn, JOSEPH, H H #9. A few jack pine starting to seed in. Cherry brush around the edges.																																															
<b>402</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.5		Unspecified		Two oil wells on site, Breitburn, STATE BEAVER CREEK D2-8 and D-6. Old comment-BAM growing in SE corner.																																															
<b>403</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK C3-8.																																															
<b>404</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.5		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK D-9. Knappweed present.																																															
<b>405</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.8		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK D4-8.																																															
<b>406</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.3		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK B4-8.																																															
<b>407</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.7		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK C1-9.																																															
<b>408</b>	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	Managed Opening	Oil well plugged 12/23/1985. No lease obligations, MU can manage. Old comments- Abandoned well pad. Knappweed and sweet fern present.																																															
<b>409</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.3		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK D2-9.																																															
<b>428</b>	310 - Herbaceous Openland	Nonstocked	2.1		Unspecified	Managed Opening	Maintained WL opening. Wildlife opening, partnership with Camp Grayling.																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
429	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	Managed Opening	Maintained WL opening. Wildlife opening, partnership with Camp Grayling.
430	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	Managed Opening	Maintained WL opening. Wildlife opening, partnership with Camp Grayling.
431	310 - Herbaceous Openland	Nonstocked	0.4	0	Unspecified	Managed Opening	Maintained WL opening. Wildlife opening, partnership with Camp Grayling.
432	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	Managed Opening	Maintained WL opening. Wildlife opening, partnership with Camp Grayling.
433	310 - Herbaceous Openland	Nonstocked	0.6	0	Unspecified	Managed Opening	Maintained WL opening. Wildlife opening, partnership with Camp Grayling.