



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72186

Entry Year 2021

Acreage: 1,936

County Crawford

Management Area: Camp Grayling

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**Revision Date:** 2019-03-08

**Stand Examiner:** Thomas Barnes

**Legal Description:**

T26N, R04W, Sections 31, 32, and 33, Grayling Township.

**Identified Planning Goals:**

This compartment is comprised of Hanson Reserve Lands which contain the following deed restrictions: 1) The lands are to be used as a permanent encampment and maneuvering ground for the military, 2) it is to serve as a game preserve for the breeding and protection of game, and 3) it is to serve as a forest reserve. The management goal is to maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while meeting the deed restrictions.

**Soil and topography:**

The soils within this compartment consist of well drained Rubicon, Roselawn, and Grayling sands. Topography within this compartment consists of rolling terrain with some pot holes.

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

The compartment is entirely in the Hanson Game Refuge being solid Military Board land. There is heavy military use throughout the compartment. This compartment contains several ranges: a grenade range in section 33, part of the mortar range #13 in section 32, and an old infantry emplacement area in section 31. This compartment is also surrounded by more Military Board lands.

**Unique Natural Features:**

Dusted Skipper was documented within the compartment in section 31 in 1986. Compartment was inventoried in winter of 2018/19. There is the potential for pine barrens species and dry prairie plant and animal species to exist within the compartment.

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

None known at this time.

**Special Management Designations or Considerations:**

The entire compartment is Hanson Reserve lands. All management considerations and uses of these lands is to meet the deed restrictions which are as follows: The land is to be used as a permanent encampment and maneuvering ground for the military; to serve as a game preserve and a forest reserve.

**Watershed and Fisheries Considerations:**

The compartment does not contain any water bodies.

**Wildlife Habitat Considerations:**

To manage and maintain cover types and habitats for non-game and game species throughout the compartment. The Hanson Game Reserve deed restrictions prohibit hunting which as resulted in high deer populations in this immediate area. There is evidence of heavy browse throughout the compartment. Examination of cuts performed in the past year have revealed most oak regeneration has died, it appears the stump sprouts were heavily browsed which probably contributed to the mortality of the regeneration. The heavy deer usage and browsing in this area needs to be considered when making treatment prescriptions.

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

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Marshall Sandstone. The Marshall was previously used as a building stone. A gravel pit is located in Section 33 and will be closed in the near future. None of the compartment is leased for oil and gas, but leases are located one-half mile to the south. The entire compartment is

classified as non-development per Department of Military Affairs.

### **Vehicle Access:**

There are numerous trail roads within the compartment due to military training. Most of these trail roads can be accessed from the county roads of Military road and Beaver Road. The compartment can be access from several trails leading from the Camp Grayling Military Base, these trails are restricted access via gates maintained by the military.. If any road closure is to occur within the compartment it needs to be agreed upon by Camp Grayling and any newly created roads due to the treatment of stands within the compartment are to be closed when treatment or treatments are finished.

### **Survey Needs:**

None

### **Recreational Facilities and Opportunities:**

Recreational Facilities and Opportunities: There are no designated recreational trails or facilities within this compartment. Hanson Game Refuge deed restrictions prohibit hunting within this compartment except in the W1/2SW1/4 section 31 and the SE SE of section 33. These parcels of state land were acquired later and are not confined to the deed restrictions. There is no designated trail system within the compartment, but snowmobiler's use some of the two tracks during the winter when the range is inactive. All roads in this compartment are closed to orv usage.

### **Fire Protection:**

Fire protection within this compartment is the responsibility of the Camp Grayling Military Fire Department, the Michigan DNR and Grayling Volunteer Fire Department. There is no nearby water source other than Camp Grayling Military Base for the compartment and access for fire equipment is adequate.

### **Additional Compartment Information:**

Military burns range 13 off every spring to reduce large fires from occurring during summer training on the range.

### **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**

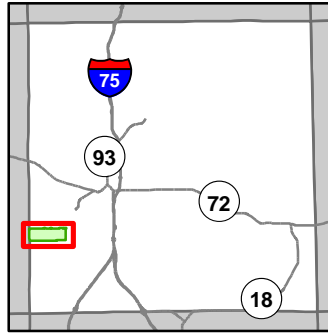
### **The following information is displayed, where pertinent, on the attached compartment maps:**

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

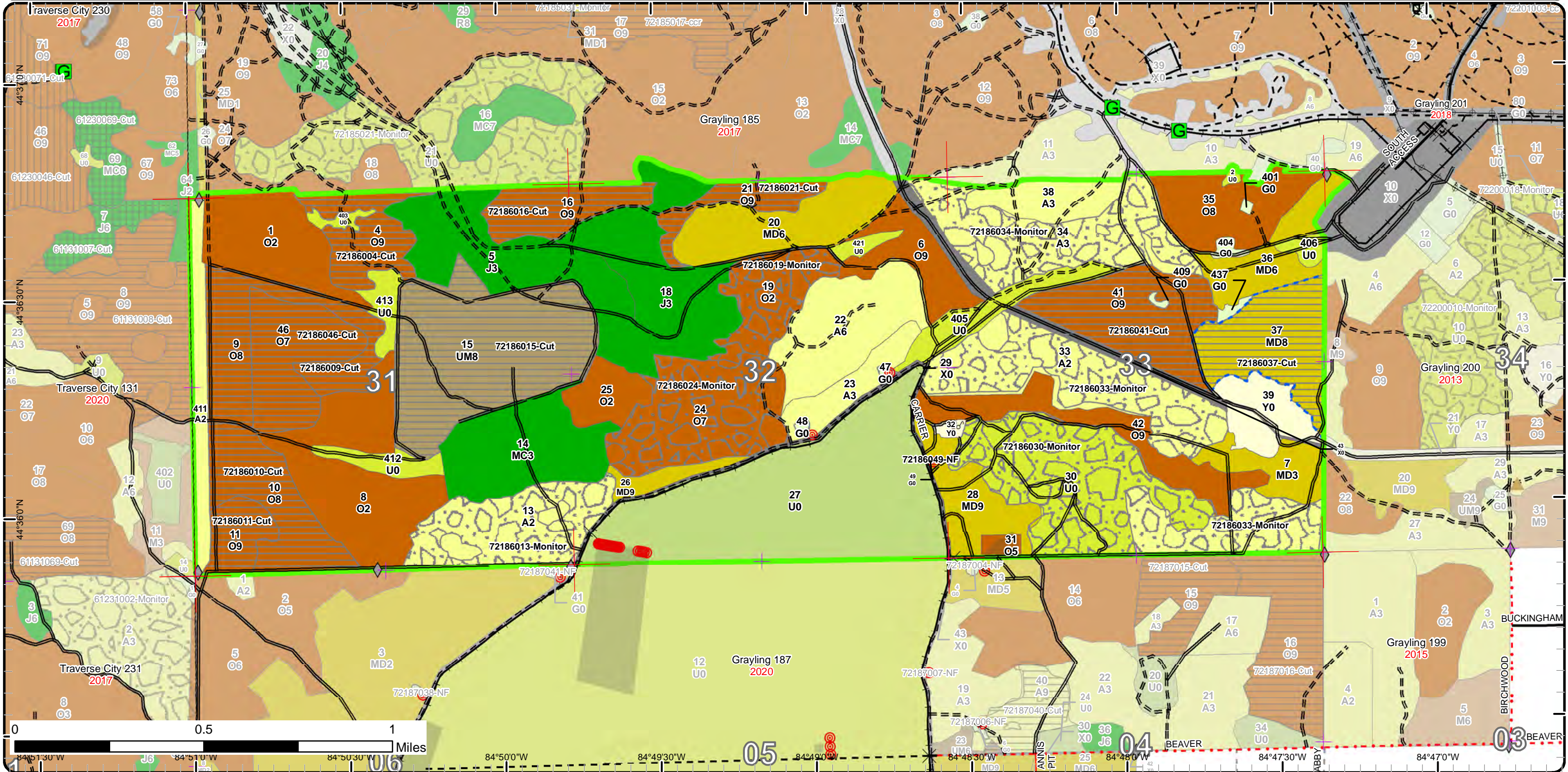


# Cover Type & Treatments Map

Compartment: 186  
 T26N, R04W, Sec. 31-33  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2021  
 Acres: 1,936 GIS Calculated  
 Examiner: Thomas Barnes  
 Map Revised: 12/9/2019  
 Map Phase: Post-Review



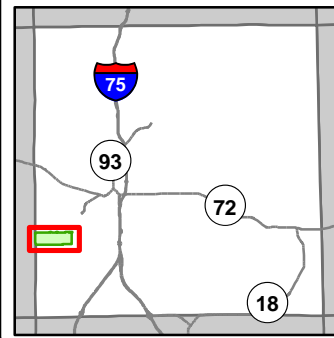
- Miris Corners
- Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- ▲ Berms
- ⊕ Gate
- ⊕ Powerline
- ▭ Compartment Boundary
- ▭ Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 710 - Sand/Soil
- ⊕ Camp Grayling Observation Point
- ⊕ Camp Grayling Firing Point
- ⊕ Camp Grayling Gates
- ⊕ Camp Grayling Fence
- ⊕ Camp Grayling Range Area



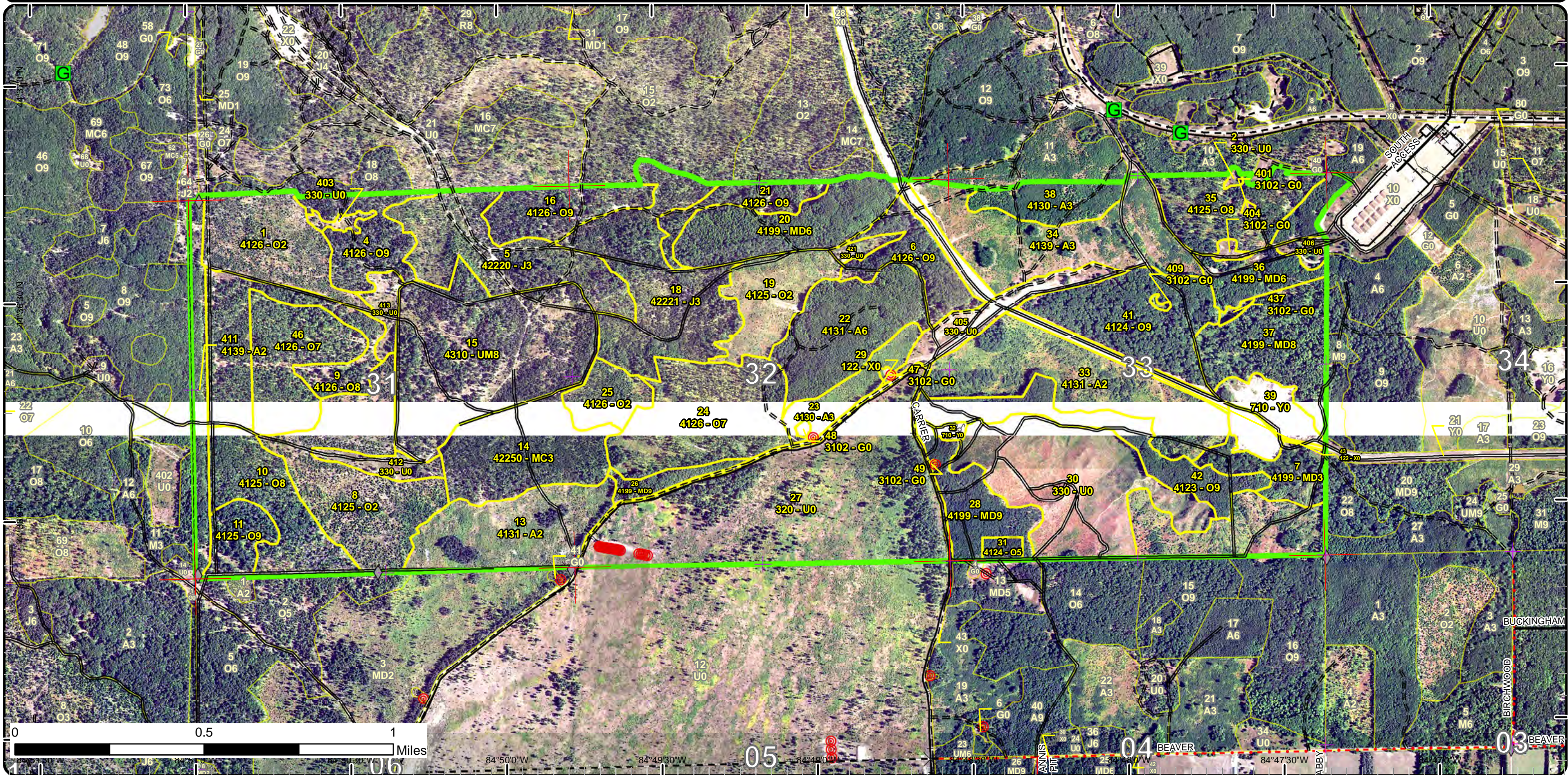


# Stand Boundary Map

Compartment: 186  
 T26N, R04W, Sec. 31-33  
 County: Crawford  
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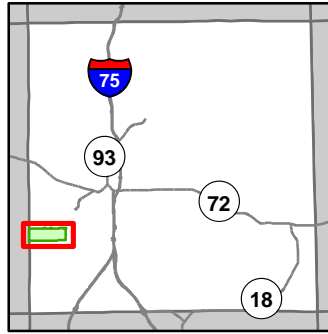
- Miris Corners
- ⊕ Remonumented Section Corners
- ◆ Field Grade Corners
- ▭ Counties
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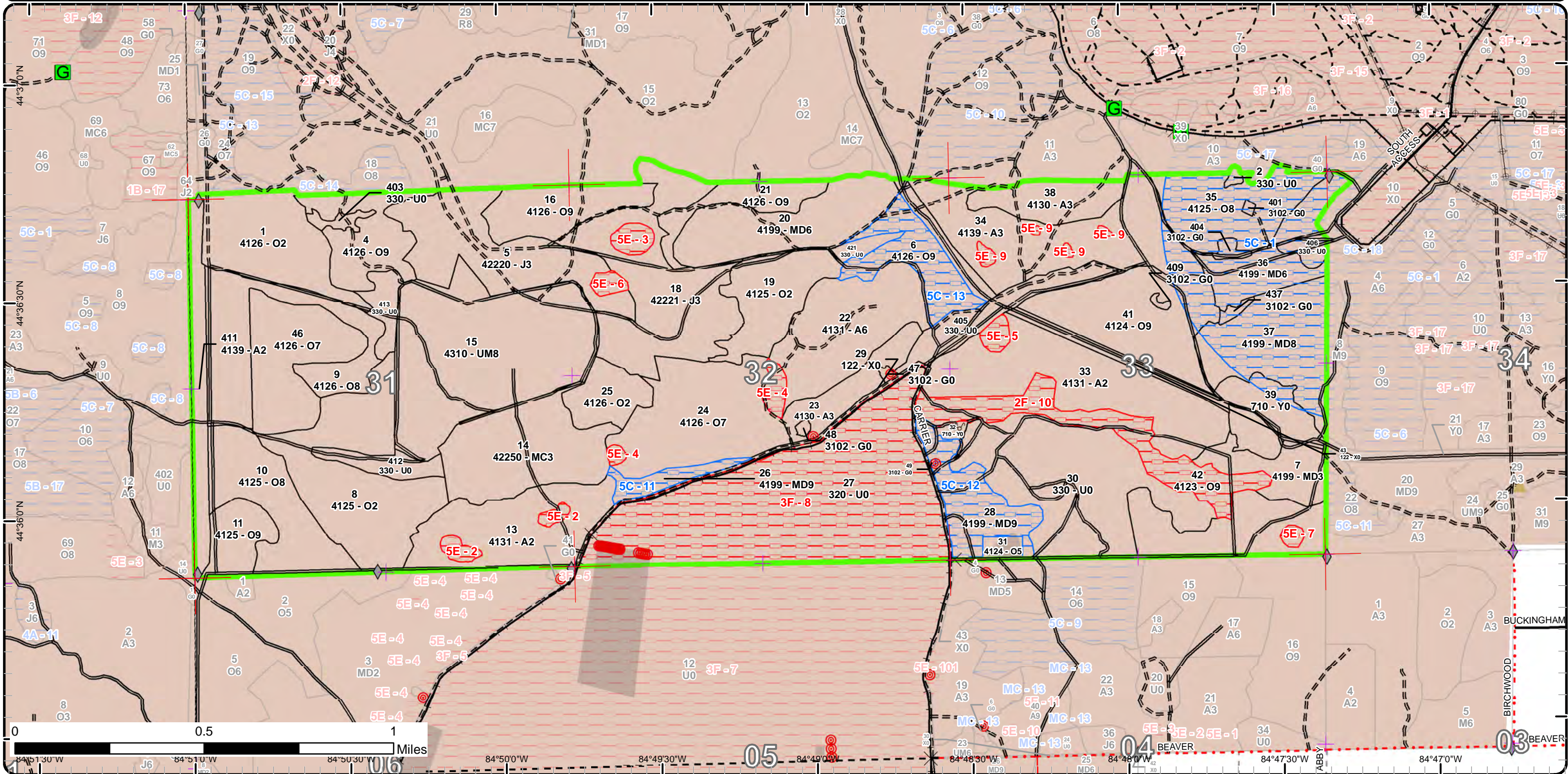


# Special Conservation Areas

Compartment: 186  
 T26N, R04W, Sec. 31-33  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2021  
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 Map Revised: 12/9/2019  
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- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- ▲ Berms
- G Gate
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 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
- 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+	Uneven-Aged	Total
Aspen	0	275	48	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0	379
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Jack Pine	0	0	62	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
Low-Density Trees	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147
Mixed Upland Deciduous	0	0	22	0	50	30	40	0	0	0	52	0	0	0	0	0	0	0	194
Natural Mixed Pines	0	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Oak	0	35	146	0	0	0	4	0	0	18	465	0	0	0	0	0	0	0	667
Sand, Soil	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	117	0	0	0	0	0	0	0	117
Upland Shrub	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
Urban	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
<b>Total</b>	<b>378</b>	<b>310</b>	<b>278</b>	<b>142</b>	<b>50</b>	<b>86</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>634</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1937</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 186

Total Compartment Acres: 1,936

Commercial Harvest - 417  
 Harvests with Site Condition - 52  
 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
Mixed Upland Deciduous	52	0	0	0	0	0	0	0	0	52
Oak	300	0	0	0	0	0	0	0	0	300
Upland Mixed Forest	117	0	0	0	0	0	0	0	0	117
<b>Total</b>	<b>469</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>469</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	469	0	0	0	0	0	427	0	1	896
Next Step	0	0	0	0	0	0	469	0	0	469
<b>Total</b>	<b>469</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>895</b>	<b>0</b>	<b>1</b>	<b>1365</b>



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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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**Approved Treatments:**

<b>4</b>	<b>72186004-Cut</b>	31.7	4126 - White, Black, N. Pin Oak	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention. Leave all white oak as retention. Protect existing oak advanced regeneration. Add military specs and oak wilt specs.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable. Expect minimal stocking in this stand.  <u>Other Comment:</u> Stand is full of foxholes and numerous trenches. Harvest unless military wants to leave.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>9</b>	<b>72186009-Cut</b>	51.5	4126 - White, Black, N. Pin Oak	Sawtimber Medium	95	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Protect oak advanced regen. Follow standard retention guidelines. In addition red pine and white pine are to be left.  <u>Specs:</u> Add military specs and oak wilt specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak is already established in understory. Aspen and maple are acceptable species as well.  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>10</b>	<b>72186010-Cut</b>	46.5	4125 - Black, N. Pin Oak	Sawtimber Medium	99	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention. Leave all white oak, red pine, and white pine as retention. Protect existing oak advanced regeneration. Add military specs and oak wilt specs.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable. Expect minimal stocking in this stand.  <u>Other Comment:</u> Stand is full of foxholes and numerous trenches. Harvest unless military wants leave.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</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>11 72186011-Cut</b>	18.3	4125 - Black, N. Pin Oak	Sawtimber Well	87	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Clear cut with retention. Leave all white oak, red pine, and white pine as retention. Protect existing oak advanced regeneration. Add military specs and oak wilt specs.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration is an oak component of 25 - 35% with aspen and maple mix.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>13 72186013-Monitor</b>	54.6	4131 - Aspen, Oak	Sapling Medium	6	Immature	Monitoring	Natural Regen (Re-Inventory)	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription Specs:</u> Monitor during next inventory cycle</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Will accept Oak, Aspen and Jack Pine regeneration.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2010</p>										
<b>15 72186015-Cut</b>	117.1	4310 - Pine, Oak Mix	Sawtimber Medium	94	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Clear cut with retention. Leave all white oak as retention. Protect existing oak advanced regeneration. Add military specs and oak wilt specs.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable. Expect minimal stocking in this stand.</p> <p><u>Other Comment:</u> Stand is full of foxholes and numerous trenches. Harvest unless military wants to leave.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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>16 72186016-Cut</b>	29.8	4126 - White, Black, N. Pin Oak	Sawtimber Well	94	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention. Leave all white oak as retention. Protect existing oak advanced regeneration. Add military specs and oak wilt specs.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable. Expect minimal stocking in this stand.</p> <p><u>Other Comment:</u> Stand is full of foxholes and numerous trenches. Harvest unless military wants leave.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>19 72186019-Monitor</b>	34.5	4125 - Black, N. Pin Oak	Sapling Medium	6	Immature	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Monitor during next inventory.  <u>Specs:</u></p> <p><u>Next Step</u>  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Accept a mixture of red maple, aspen and oak regen meeting minimum stocking levels.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>21 72186021-Cut</b>	18.2	4126 - White, Black, N. Pin Oak	Sawtimber Well	94	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention. Leave all white oak and red pine as retention. Protect existing oak advanced regeneration. Add military specs and oak wilt specs.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable. Expect minimal stocking in this stand.</p> <p><u>Other Comment:</u> Stand is full of foxholes and numerous trenches. Harvest unless military wants leave.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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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<b>24</b>	<b>72186024-Monitor</b>	64.9	4126 - White, Black, N. Pin Oak	Sawtimber Poor	95	1-50	Monitoring	Natural Regen (Re-Inventory)	412 - Oak Types Even-Aged	No
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Prescription Monitor during inventory cycle

Specs:

Next Step

Treatments:

Acceptable accept a mix of all species of regeneration meeting minimum stocking levels.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>30</b>	<b>72186030-Monitor</b>	91.8	330 - Low-Density Trees	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Monitor Check in 2021

Specs:

Next Step

Treatments:

Acceptable aspen, red maple, and oak

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>33</b>	<b>72186033-Monitor</b>	113.1	4131 - Aspen, Oak	Sapling Medium	5	Immature	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Monitor during inventory. Northern hardwood listed as mo but old comments say regen of aspen, red maple and oak is expected. Stand is regenerating as aspen red maple and oak. Recommend accepting regen as present and change MO to reflect what is coming back.

Specs:

Next Step

Treatments:

Acceptable Comments indicate a mix of aspen, red maple and oak is expected.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2018





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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>34 72186034-Monitor</b>	67.7	4139 - Aspen, Mixed Deciduous	Sapling Well	6	Immature	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Monitor during inventory process. Passes Regen Survey for red maple aspen and oak.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Red maple and aspen, oak and other associated species meeting minimum stocking levels  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2018</p>										
<b>37 72186037-Cut</b>	51.7	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	95	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention following standard retention guidelines. In addition leave all white oak and trees greater than 26". Leave all pine as well. Military specs and oak wilt specs.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Any combination of maple, oak or aspen is acceptable. Variable stocking densities are expected and accepted.  <u>Regen:</u>  <u>Other</u> Military-identified Potential Explosive Safety Arc around the Ammo Supply Point (ASP). Contractors working within this area have to  <u>Comment:</u> coordinate activities with the ASP and accept (in writing) the potential risks associated with working in that area.  <u>Site Condition</u> Age-Class or Site Quality  <u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>41 72186041-Cut</b>	57.7	4124 - Red with White Oak	Sawtimber Well	95	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Leave all white oak for retention. Oak wilt specs. mil specs. Leave oaks greater than 26".  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Any combination of oak, aspen, or maple is acceptable.  <u>Regen:</u>  <u>Other</u> Military-identified Potential Explosive Safety Arc around the Ammo Supply Point (ASP). Contractors working within this area have to  <u>Comment:</u> coordinate activities with the ASP and accept (in writing) the potential risks associated with working in that area.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</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>46 72186046-Cut</b>	46.2	4126 - White, Black, N. Pin Oak	Sawtimber Poor	95	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention. Leave all white oak, red pine, and white pine as retention. Protect existing oak advanced regeneration. Add military <u>Specs:</u> specs and oak wilt specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Oak is the desired species, but any combination of oak, maple, aspen, or pine is acceptable. Expect minimal stocking in this stand. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>47 72186047-NF</b>	0.8	3102 - Grass	Nonstocked	0		NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, <u>Specs:</u> brushing, tree and shrub planting and herbicide application.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <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. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2010</p>										
<b>48 72186048-NF</b>	0.8	3102 - Grass	Nonstocked	0		NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, <u>Specs:</u> brushing, tree and shrub planting and herbicide application.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <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. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2010</p>										
<b>49 72186049-NF</b>	0.2	3102 - Grass	Nonstocked	0		NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, <u>Specs:</u> brushing, tree and shrub planting and herbicide application.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <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. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2010</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

Total Treatment  
Acreage Proposed: 897.1



## Report 4 – Site Conditions

Grayling Mgt. Unit

Thomas Barnes : Examiner

Compartment: 186

Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2F	3F	5E
		With Condition	Not Available					
378	359	<b>6</b>	13	Aspen	<b>6</b>			13
7	2	<b>4</b>	0	Herbaceous Openland	<b>4</b>			
145	137	<b>0</b>	8	Jack Pine				8
147	141	<b>6</b>	0	Low-Density Trees	<b>6</b>			
193	78	<b>116</b>	0	Mixed Upland Deciduous	<b>116</b>			
59	59	<b>0</b>	0	Natural Mixed Pines				0
668	543	<b>77</b>	48	Oak	<b>77</b>	42		6
26	23	<b>3</b>	0	Sand, Soil	<b>3</b>			
117	117	<b>0</b>	0	Upland Mixed Forest				
169	0	<b>0</b>	169	Upland Shrub			169	
28	28	<b>0</b>	0	Urban			0	
1,936	1,487	<b>211</b>	238	Total Forested Acres	<b>211</b>	42	169	27
	77%	<b>11%</b>	12%	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	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	143	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> see locked comments							
2	Unavailable	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area was left when Stand 18 was harvested, there is also many fox holes and full of old underground emplacements and trenches.							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Thomas Barnes : Examiner

Compartment: 186  
Year of Entry: 2021

4	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area was left when Stand was harvested, there is also many fox holes and full of old underground enplacements and trenches.							
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	3F: Military easement / lease	169	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fenced Range 13							
9	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	2F: Too steep	42	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep north facing slope, Long-term retention associated with stand 30 (72-638-11-01).							



## Report 4 – Site Conditions

Grayling Mgt. Unit

Thomas Barnes : Examiner

Compartment: 186

Year of Entry: 2021

11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	28	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
<b>Comments</b>				





**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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
<b>1</b>	4126 - White, Black, N. Pin Oak	Sapling Medium	48.6	14	Immature	N/A	Sale was cut in winter of 04/05. Cominy back nicely with a significant amount of oak Maple and jack pine also present. This will be a oak stand in the the the OPIC - FMD: 2009 Notes: Stand was final harvested in 2005 to military specifications under timber sale 72-045-01-01 Many Fox Hole Block. Stand two was also included within this sale. Management goal is for Oak natural regeneration and will accept the mix of other species such Jack Pine, Red Maple and Aspen. Stand is under long term military lease. Stand is currently an O2 M1. Sedges and Bracken Fern make up most of the ground cover.																									
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Jack Pine	80	Sapling/Pole	3	14																												
Black/Red (Hybrid) Oak	17	Sapling/Pole	3																													
<b>2</b>	330 - Low-Density Trees	Nonstocked	1.1			No	Stump pile some O2.																									
<b>4</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	31.7	95	81-110	N/A	Another oak stand on the decline. Higher component of pole sized Jack pine, with some height. Heavy military activity with foxholes all over and trenches. Stand is full of foxholes and numerous trenches. Harvest unless military wants to leave.  OPIC - FMD: OAK IS IN CLUMPS. North side of the hill all fox holes (military type). NO TREATMENT UNLESS MILITARY WANTS IT TREATED																									
<b>5</b>	42220 - Natural Jack Pine	Sapling Well	62.0	14	Immature	N/A	Sale was cut in winter of 04/05. Stand has regenerated well to a jack pine dominated stand. There is a good component of oak and some cherry brush. Also remnant stems of at least 4" and greater of bol oak and jack pine. Stand is at lower end of canopy coverage . OPIC - FMD: Some areas of J6, leave 4 inch and under, leave oak on hill SE part of stand over looking stand 15. Stand final harvested. Sale # 0450101.																									
<b>6</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	28.3	94	81-110	N/A	Park like oak stand in pretty good shape. Most hybrid oak and white oak with some maple, red and whil pine. Heavy military use as well as deer hunters.																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>7</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	21.7	15	1-50	N/A	Stand is a pretty good mix of species. X-log size oaks scattered through. West side of stand doesn't appear to have been treated and contains oak and a few overmature aspen. Old comments- (The rest of this stand was final harvested, notes indicate this portion was left due to lack of volume in the overstory. An edge call was made when closing adjacent sale. OPIC - FMD: Former treatment ended up with nice oak overstory over a dense understory of aspen and red maple, that are 10-15 feet tall. Aspen starting to be shaded out. Need to remove overstory oak to release patches of aspen and red maple. We have converted this stand away from oak. In areas where we want to maintain some patches of oak, mash the red maple down and clearcut the oak to give oak sprouts opportunity to compete. Is concern over heavy deer browse taking out the oak. Leave patches of oak for visual and mast and retention throughout the sale area. Will need military permission to treat. Old comments: Cut the aspen and maple, mark some white oak to cut were it's a solid type. Stand was thinned in 2005-2006 under contract 72-049-01-01 Cote Came Thin Block. No FTP was needed following the sale.)
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Oak		15	Log/XLog	16			
Black Cherry		10	Sapling	2			
Red Maple		20	Sapling	2			
Beech		10	Sapling	1			
Paper Birch		10	Sapling	2			
Bigtooth Aspen		35	Sapling	3	15		
<b>8</b>	4125 - Black, N. Pin Oak	Sapling Medium	79.0	15	Immature	N/A	Nice Stand of stump Sprout oak. Red maple, aspen and jack pine is also present. Scrub cherry is also scattered about. Stand at higher end of canopy coverage. High wildlife activity is also present.  OPIC - FMD: Final harvest. Leave the dead oak. Timber Sale 72-043-01-01 Leave Valley Oak Block. Cut in spring of 2004
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Black/Red (Hybrid) Oak		60	Sapling/Pole	3	15		
Red Maple		20	Sapling	3			
Quaking Aspen		10	Sapling	1			
Jack Pine		10	Sapling	2			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Choke Cherry		Medium	5 - 10 feet	Sapling			
<b>9</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	51.5	95	51-80	N/A	Oak is showing signs of decline. Pretty good oak in the sub-canopy (patchy in places). Some red maple stump sprouts, but not as much as in other stands in compartment. All aspen and maple were removed along with marked oak. North side of stand looks like it was excluded from previous harvest as it contains aspen, jack pine, cherry, and more mature/wolfy oaks.  Old comments- (OPIC - FMD: Timber sale # 72-026-02-01 (Infantry Encampment). Cut by Chris Muma Forest Products in 2005. Residual after marking the stand was 44 square feet. 06/10/2005 mm 2009: Recommend an underburn to set back Aspen, Red Maple and Cherry. Per 11/10/09 Compt Review, burn stand 46 at the same time.)
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Black/Red (Hybrid) Oak		59	Log	12	95		
Bigtooth Aspen		8	Pole	7			
White Oak		20	Log	11			
Red Maple		8	Pole	8			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Black/Red (Hybrid) Oak		Low	Variable	Sapling			
White Oak		Medium	Variable	Sapling			
Red Maple		Low	10 - 20 feet	Sapling			
Red Pine		Trace	Variable	Sapling			
Bigtooth Aspen		Trace	10 - 20 feet	Sapling			
White Pine		Trace	Variable	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
10	4125 - Black, N. Pin Oak	Sawtimber Medium	46.5	99	1-50	N/A	Stand had all red maple and aspen removed as well as marked oak. Well established understory dominated by maple and aspen of 20 plus feet tall. Oak clumps are present, however, the oak is not nearly as tall. Preetty significant natural mortality of hybrid oak in areas. Scattered red and white pine throughout. Several pits are found in stand from military activity. Stand is full of foxholes and numerous trenches. Harvest unless military wants to leave.																											
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<p>OPIC - FMD: 2009 Notes: Mature Oak stand with and mix of Oak, Red Maple and some Aspen in the understory. Some of the Oak has died since harvested some area do have a little denser Oak residual than where my plots were taken. Stand is under long-term military lease. Old Notes: LEAVE 50-60 SQ FT OF NICE QUALITY RED AND WHITE OAK. Timber sale #72-026-02-01 (Infantry Encampment). Cut by Chris Muma Forest Products in 2005. Residual after marking the stand was 44 square feet. 06/10/2005 mm</p>																																		
11	4125 - Black, N. Pin Oak	Sawtimber Well	18.3	87	51-80	N/A	Poor stand of oak, natural mortality is taking place. Some advanced oak regen is present. OPIC - FMD: 2009 Notes: Stand some what sparse. Stand is Oak patches surrounded by grassy areas. 0402 IN THE SW CORNER.																											
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13	4131 - Aspen, Oak	Sapling Medium	59.6	6	Immature	N/A	Mixed young stand of aspen, oak, jack pine, cherry and maple. Oak and maple stump sprouts with oaks ranging any where from 4-15 feet. Jack pine is dense in a few areas. Stand does pass regen survey for a mixture of aspen, oak and jack pine.																											
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<p>OPIC - FMD: Stand is under long-term military lease and the east side of stand borders the Mortar Range (Range 13-14). Final harvested under contract number 72-624-11-01 "West Range 13 Jack". Two retention islands located in the east and west. Will accept Oak, Aspen and Jack Pine regeneration.</p>																																		
14	42250 - Pine, Oak	Sapling Well	58.5	26	Immature	N/A	Young Stand of jack pine with a good presence of oak. Scattered log sized oak stem which some are dying. . Fairly high stern density. OPIC - FMD: Immature Jack pine stand with scattered Oak regeneration. Stand also contains 10-20 BA of mature Oak in the overstory. Stand is under long-term military lease.																											
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15	4310 - Pine, Oak Mix	Sawtimber Medium	117.1	94	51-80	N/A	Mixed oak and Jack Pine stand of poor quality. Oak is suffering heavy mortality, primarily hybrid oak. Jack pine is filling in the open are us fairly well, but resulting in bushy stems. Rolling terrain with heavy military activity. Stand K full of foxholes with Some barb wire and numerous trenches. Leave as is unless military wants treated. OPIC - FMD: HEAVY NATIONAL GUARD USE. CLOSED TO VEHICLE USE DUE TO UNDERGROUND INFANTRY EMLACEMENTS.																											
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16	4126 - White, Black, N. Pin Oak	Sawtimber Well	29.8	94	51-80	N/A	Mature Oak stand mixed with Jack Pine and Red Maple. starting to see fair amount of natural mortality. Similar to stand 21. Stand is under long-term military lease. Stand is also full of old underground emplacements and trenches. Stand is full of foxholes and numerous trenches. Harvest unless military wants to leave.																																
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18	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	82.6	26	Immature	N/A	Young stand with good stem density dominated by jack pine. Good components of oak, aspen and cherry. Sterns not yet a stick with average heights of 10-15 ft. There are areas where the stem density is light. OPIC - FMD: Immature Jack Pine stand mixed with Aspen, Oak and cherry brush. 3inch dbh and about 9 feet tall.																																
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19	4125 - Black, N. Pin Oak	Sapling Medium	34.5	6	Immature	N/A	Stand was harvested in 2013 with no retention. Stand is regenerating fairly well with a high component of oak with maple, not seeing a whole lot of aspen. Majority of oak B not greater than 4 feet tall; however, I believe the vast majority of what is present will be part of next stand Passing regen survey. OPIC - FMD: Harvested under contract number 72-632-11-01 "Range 13 SHL Final" in May of 2013. No retention. Old comment: Mixture, maple in the valleys along trail, oak on the ridges. Will accept a mixture of red maple, aspen and oak regen.																																
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20	4199 - Other Mixed Upland Deciduous	Poletimber Well	49.7	35	81-110	N/A	Young Aspen pole stand mixed with Oak and Red Maple. Long-term military leased.																																
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21	4126 - White, Black, N. Pin Oak	Sawtimber Well	18.2	94	51-80	N/A	Mature Oak stand with lots of dead stand Oak. Stand was part of stand 18. A though stand is breaking down it is starting to replace itself with oak, maple and some pine Very poor quality stand with continued heavy military activity. Stand is full of old underground emplacements and trenches used by the military in the past. Stand is under long-term military lease. Although stand meets silviculture treatment status, unless military requests treatment, this stand will not be treated.  Old notes: Part of the Oak left after the cutting of stand 18.																																
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22	4131 - Aspen, Oak	Poletimber Well	55.7	45	51-80	N/A	Stand was cut in 1974. Good dense stand with mixed aspen along with maple and oak. Oak and maple are smaller in diameter than most aspen. Fair quality stand with rolling terrain. Stand can hold for another 10 years. OPIC - FMD: OI Stand Year Origin was 1974																																
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23	4130 - Aspen	Sapling Well	19.9	6	Immature	N/A	Young stand of aspen and maple with good stem densities. There is a small strip of mature trees between road and treated stand. OPIC - FMD: Harvested under contract number 72-632-11-01 "Range 13 SHL Final" in May of 2013. No retention. Stand borders Range 13.																																								
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24	4126 - White, Black, N. Pin Oak	Sawtimber Poor	70.8	95	1-50	N/A	Stand was cut in 2013. Some natural mortality of hybrid oak, white oak appears to be doing ok. There is clump maple and oak stump sprouts as well as rootstock regen. Maple regen is averaging about 3-5 feet taller than oak. Recommend no treatment this time to allow oak regen to grow taller. Heavy deer activity as stand is next to range 13.  OPIC - FMD: Shelterwood under contract number 72-632-11-01 "Range 13 SHL Final" in May of 2013. Lots of pockets of white oak seedlings resulting from thinning last time. Can leave clumps or patches of oak for mast and retention. Stand has residual BA of 30. Will accept a mix of all species of regeneration. BA left heavier along trail bordering Range 13 fence. Old notes: STD THINNED IN 1992 UNDER SALE #60-91-1, REMOVED APPROX 30 BA																																								
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25	4126 - White, Black, N. Pin Oak	Sapling Medium	18.3	16	1-50	N/A	Scattered jack pine and oak are getting into the pole class but, still immature overall. Open cherry brush and jack pine in south (possibly a small frost pocket). Red maple more of a component in the north. Witch hazel present in low numbers in north side. Jack pine is heavier around the edges of stand. Military "fox hole" dug out and reinforced with plywood next to 2-track one west side. Old comment- (OPIC - FMD: Immature Oak and Jack pine. Used old site index, which was Jack Pine.)																																								
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26	4199 - Other Mixed Upland Deciduous	Sawtimber Well	9.1	51	111-140	N/A	A few x-log oaks scattered through stand. Most of the red oak looks to be decent quality. Red maple throughout, but heaviest to the west. Old comment- (OPIC - FMD: OI Stand Year Origin was 1968)																																								
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27	320 - Upland Shrub	Nonstocked	169.2			No	Part of the Range 13 Complex, fenced off to any public access old notes still apply. Some areas are forested however majority is upland brush. OPIC - FMD: FENCED NATIONAL GUARD MOTAR RANGE. Upland Brush and Grasses. There are a few pockets of mature Oak in the north end of range. Range is burned on an yearly bases by the National Guard.																																								
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28	4199 - Other Mixed Upland Deciduous	Sawtimber Well	31.2	54	111-140	N/A	South side of stand butts up against grenade range. Changed age from 62 to 54. West side of stand is aspen dominated and east side is oak dominated. Old comments- (OPIC - FMD: Oak stand mixed with Aspen and Red Maple. Long-term military leased. Military trespass. Military push trees and stumps over into stand to widen trail along range 13 fence.)																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																					
29	122 - Road/Parking Lot	Nonstocked	9.3	0		Managed Opening	Range 13 Road, outside of fence with managed shoulder for wildlife and fuel break.																					
30	330 - Low-Density Trees	Nonstocked	91.8	0		412 - Oak Types	Stand is coming back with primarily red maple. Oak is found scattered and also in fairly dense stems including white and hybrid oak. Other species includes cherry, witch hazel and other deciduous shrubs. Getting close to being a forested stand. Pretty heavy deer browse up along stand 42. There are areas with little to no regeneration. Merged with stand 29. Leave monitoring treatment on stand and re check in 2021. Old MO was Oak for stand 30 and Maple for stand 29, however, exceptable regen list aspen, maple and oak, which is what the stand is leaning towards at this time and appears to be heading towards a Mixed Deciduous stand.  Stand harvested in spring 2015 under contract 72-638-11-01. Hasn't sprouted back real well this summer.  OPIC - FMD: Stand is very hilly. Per silviculturalist, recommend final harvest south slopes only. Leave north slopes alone. Cut and expect a mix of natural regeneration of aspen, red maple, and oak via stump sprouts. Will not get back a full stocking of oak, but plan on a mix. Prescribe entire stand but in reality only a portion of the stand will be harvested. Create a stand 130 as the harvested portions- estimated that as 1/3 of acreage. Remainder of stand will stay as stand 30 and remain unharvested. SJT																					
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31	4124 - Red with White Oak	Poletimber Medium	4.0	54	51-80	N/A	Likely have a lot of trees with shrapnel in them. Keep an eye out for oak wilt in this stand during future inventory. Stand contains various targets, bunkers, and station posts. East side of stand is a little more open than west side. Changed age from 77 to 54.Old comment- (OPIC - FMD: Active gernade range.)																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
<b>33</b>	4131 - Aspen, Oak	Sapling Medium	121.0	5	Immature	N/A	Stand has open areas or areas with low stem density. Stand is primarily maple an aspen with mixed oak and other deciduous shrubs.  Old Comment: Oak Stand was thinned in 2005 and then the overstory was removed in 2014 under contract 72-638-11-01. Pockets of red maple regeneration from the first thinning was protected during the harvest. MO is northern hardwood but all comments indicate expecting a mix of aspen, red maple and oak.  Old comment: OPIC - FMD: Former treatment ended up with nice oak overstory over a dense understory of aspen and red maple, that are 10-15 feet tall. Aspen starting to be shaded out. Need to remove overstory oak to release patches of aspen and red maple. We have converted this stand away from oak. In areas where we want to maintain some patches of oak, mash the red maple down and clearcut the oak to give oak sprouts opportunity to compete. Is concern over heavy deer browse taking out the oak. Leave patches of oak for visual and mast and retention thoroughout the sale area. Will need military permission to treat. Old comments:Cut the aspen and maple, mark some white oak to cut were it's a solid type. Stand was thinned in 2005-2006 under contract 72-049-01-01 Cote Came Thin Block. No FTP was needed following the sale.																																							
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<b>34</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	73.8	6	Immature	N/A	Young stand dominated by aspen with a fair component of red maple and some oak. Maple and oak are primarily stump sprouts. Rolling to flat terrain with several areas of openness. OPIC - FMD: Harvested in spring of 2013 through contract 72-619-11-01, Comp 186 Oak 34. Four retention islands were left. One in unit 1, three in unit 2, and none in unit 3. Monitor regeneration for browse impacts. KKA: 65 acres harvested.																																							
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<b>35</b>	4125 - Black, N. Pin Oak	Sawtimber Medium	41.8	99	51-80	N/A	Stand was harvested under contract 72-602-11-01, with a residual BA of roughly 70.  OPIC - FMD: 2009 Notes: Mature Oak stand which has pockets of Aspen within it and scattered Red Maple. Stand is under long-term military lease. Recommend thinning stand to 60-70 BA. Remove all Aspen and Red Maple.LOCATED NEAR NATIONAL GUARD AMMO SUPPLY POINT. THIN NEXT TIME.																																							
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<b>36</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	29.7	42	111-140	N/A	Stand is starting to get some saw size trees, but still pole size overall.Old comment- (OPIC - FMD: NEAR NATIONAL GUARD AMMO SUPPLY POINT.)																																							
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<b>37</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	51.7	95	51-80	N/A	Long opening along northwest boundary. Heavy browse on maples in stand. Regen gaps full of aspen, red maple, and witch hazel. Sugar maple dominates the east side of the stand, but red oak dominates the rest. Stand will likely convert to red maple/aspen regardless of management.																																																						
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<b>38</b>	4130 - Aspen	Sapling Well	22.6	16	Immature	N/A	Stand is doing well, with good stem densities. OPIC - FMD: Cut winter of 2002/2003 by Chris Muma Forest Products Timber Sale # 72-046-01-01 - Two Stand Training Block. 05/01/2003 mm																																																						
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<b>39</b>	710 - Sand, Soil	Nonstocked	24.3			No	Pit is still being used by military. OPIC - FMD: GRAVEL PIT EXPANDED IN 1987. Three Sister's Gravel Pit being used by military. No lease exists for this pit. Is located on Hanson Grant lands.																																																						
<b>41</b>	4124 - Red with White Oak	Sawtimber Well	57.7	95	51-80	N/A	Oak overstory with heavy red maple in sub-canopy (a lot in the 10-20' and greater than 20' ranges). White oak present at medium density but, is heavily browsed and less than 5'. Some oak decline and pocket mortality seen through stand. Aspen regen high in pockets, but medium to low overall.																																																						
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<b>42</b>	4123 - Red Oak	Sawtimber Well	42.1	95	141-170	N/A	North facing slope, mostly inoperable. Quality red oak.																																																						
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43	122 - Road/Parking Lot	Nonstocked	18.4	18	Immature	No	This is the By-Pass road for camp grayling with managed grass along edges. OPIC - FMD: Corridor was final harvested in 2001 to serve as a military by pass road. Cut over area started to regenerate but military is gradually removing stumps, so most of corridor is sand, shrubs, or grass. Will eventually be nonstocked travel corridor so called is X0. See contract #018-01-02 Tank Trail Cut.																																					
46	4126 - White, Black, N. Pin Oak	Sawtimber Poor	46.2	95	51-80	N/A	Patchy oak in sub-canopy low to med densities. Maple sprouts through most of stand. Open park like in areas with little to no sub canopy. Barb wire wrapped around an oak.																																					
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47	3102 - Grass	Nonstocked	0.8	0		Managed Opening	Wildlife opening, partnership with Camp Grayling. OPIC - FMD: Harvested under contract number 72-632-11-01 "Range 13 SHL Final" in May of 2013. No retention. Stand borders Range 13.																																					
48	3102 - Grass	Nonstocked	0.8	0		Managed Opening	Wildlife opening, partnership with Camp Grayling. Firing Point 13-1 OPIC - FMD: Harvested under contract number 72-632-11-01 "Range 13 SHL Final" in May of 2013. No retention. Stand borders Range 13.																																					
49	3102 - Grass	Nonstocked	0.2	0		Managed Opening	Wildlife opening, partnership with Camp Grayling.  OPIC - FMD: Oak stand mixed with Aspen and Red Maple. Long-term military leased. Military trespass. Military push trees and stumps over into stand to widen trail along range 13 fence.																																					
401	3102 - Grass	Nonstocked	0.6			No	Small grassy opening. OPIC - FMD: OI Stand Year Origin was																																					
403	330 - Low-Density Trees	Nonstocked	3.2			No	OPIC - FMD: OI Stand Year Origin was																																					
404	3102 - Grass	Nonstocked	2.2			No	OPIC - FMD: Looks like a Military barrow pit that's been sloped.																																					
405	330 - Low-Density Trees	Nonstocked	22.2			No	Lineal opening with grass and scattered oak trees. Large debris and stump pile along edge by the camp's bypass road. OPIC - FMD: Long narrow flat opening were Military vehicles park.																																					
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406	330 - Low-Density Trees	Nonstocked	4.7			No	OPIC - FMD: Near National Guard ammo supply point.																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
409	3102 - Grass	Nonstocked	0.7			No	Shallow depression																				
411	4139 - Aspen, Mixed Deciduous	Sapling Medium	25.2	14	Immature	N/A	Strip of trees that were harvested along the county line, regenerating back as aspen, red maple and some oak. Stems are 10-25' tall for aspen and maple and 5-10 for oak.  OPIC - FMD: Narrow strip of grass and some regeneration of Aspen and Oak along the Crawford/Kalkaska line.																				
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412	330 - Low-Density Trees	Nonstocked	10.4			No	OPIC - FMD: OI Stand Year Origin was																				
413	330 - Low-Density Trees	Nonstocked	9.2			No	OPIC - FMD: OI Stand Year Origin was																				
421	330 - Low-Density Trees	Nonstocked	4.2			No	Stump dump in the west half. Filling in some w/ cherry brush																				
437	3102 - Grass	Nonstocked	1.6	0	Unspecified	No	Split grassy opening off of stand 37.																				