



## GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 200 ENTRY YEAR: 2013

GIS Compartment Acreage: 1773 County: Crawford

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**Revision Date:** August 2011

**Stand Examiner:** Craig Farrer

**Legal Description:** T26N, R4W. Sections 34, 35, and 36, Grayling Township.

**Management Goals:** This compartment is comprised of Military Board Lands and National Guard leased lands and is located in the Hanson Refuge. Hanson Refuge lands were given to the National Guard by Rasmus Hanson in 1913 with the following deed restrictions: first, the lands are to be used as a permanent encampment and maneuvering ground for the military of this state; second, it is to serve as a game preserve for the breeding and protection of game; and third, as a forest reserve. These restrictions have been interpreted as the DNR can manage the natural resources on these lands as long as management does not conflict with military needs. The primary management objective for the lands is to be used for military training. Other goals include managing stands for special military needs, species diversity, health, productivity, visual management and multiple use of the area.

**Soils and Topography:** Soil types within this compartment consist mostly of Roselawn sands, Graycalm sands or Roselawn and Rubicon-Roselawn sands. Topography is gently rolling terrain containing ridge tops and valleys with the exception of the Three Sisters Range in southwest half of section 34. The terrain in this area is steep.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is comprised of fairly solid state ownership, with some private lands located in the south half of section 35. State ownership consists of military board lands and the remaining State of Michigan lands are leased by the military under L-1479 (Act 54 P.A. 1935). The compartment is part of the Hanson Refuge. Hanson Refuge lands were given to the National Guard by Rasmus Hanson in 1913 and have been interpreted as hunting is not allowed on these lands. This area is heavily used by the military for training purposes. Other uses are limited due to Hanson restrictions.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** The Hills Thistle (*cirsium hillii*, state special concern) is found in area.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** None recorded

**Special Management Designations or Considerations:** The military ammunition dump is located in stand 1, requiring access to the area be minimized for security reasons. The compartment contains a military orienteering course and military encampments. Also need to consider Hill's Thistle and visual management.

**Watershed and Fisheries Considerations:** None

**Wildlife Habitat Considerations:** To maintain existing cover types and promote age class diversity where possible to improve habitat conditions for various species of wildlife.

**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 are the Michigan Formation and Marshall Sandstone. These formations are or have been quarried for gypsum and building stone elsewhere in the State. The nearest gravel pit is located in Section 34 and potential is thought to be good. This is part of the State Military Reservation. Section 36 is leased for oil and gas development. The nearest production is Beaver Creek Field, located two miles to the southwest.

**Vehicle Access:** A small portion of the compartment, in the northwest corner of section 34 is inaccessible, other than to military use because of the fenced military ammunition dump. The remaining portions of this compartment can easily be accessed from Military Road, 4 Mile Road and two track roads from the compartment to the north. Several two - track roads exist throughout the compartment including a snowmobile trail. Some of these two track roads, however, have been blocked by the military to restrict access and increase security. All new roads constructed for management activities are to be closed.

**Survey Needs:** None needed

**Recreational Facilities and Opportunities:** The compartment is part of the Hanson Game Refuge and thus is closed to hunting. The compartment contains a designated snowmobile trail, Blue Bear Trail #7.

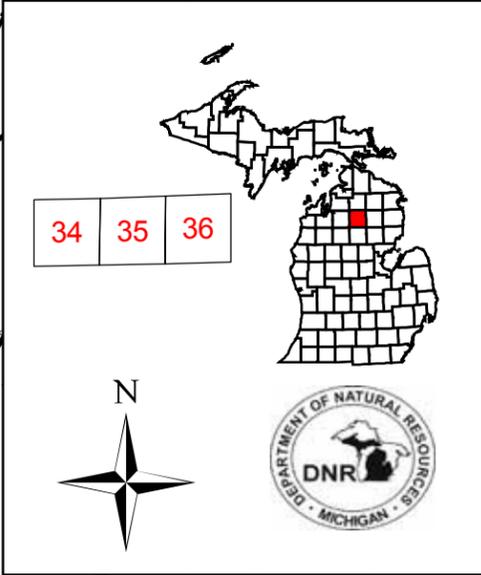
**Fire Protection:** The compartment contains very little high hazard fire types. Road access is adequate.

**Additional Compartment Information:** Oak wilt has been documented in the east half of section 36.

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

# Cover Type & Treatment Map

Compartment 200  
 T26N, R04W, Sec. 34, 35, 36  
 County: Crawford  
 Unit: Grayling  
 YOE: 2013  
 Acres: 1,773 GIS Calculated  
 Stand Examiner: Craig Farrer  
 Map Revised: 9/08/2011  
 Map Phase: Pre-Review



**Stand #**  
 23  
**Stocking Density**  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

### Legend

- RIs Corners
- Miris Corners
- Paved Roads
- Poor Dirt Roads
- Snowmobile Trail
- Snowmobile Trails
- Gate
- Berms blocked trails
- Power
- Camp Grayling Fence
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

### Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Selection (Group, Single Tree)

### Forest Stands

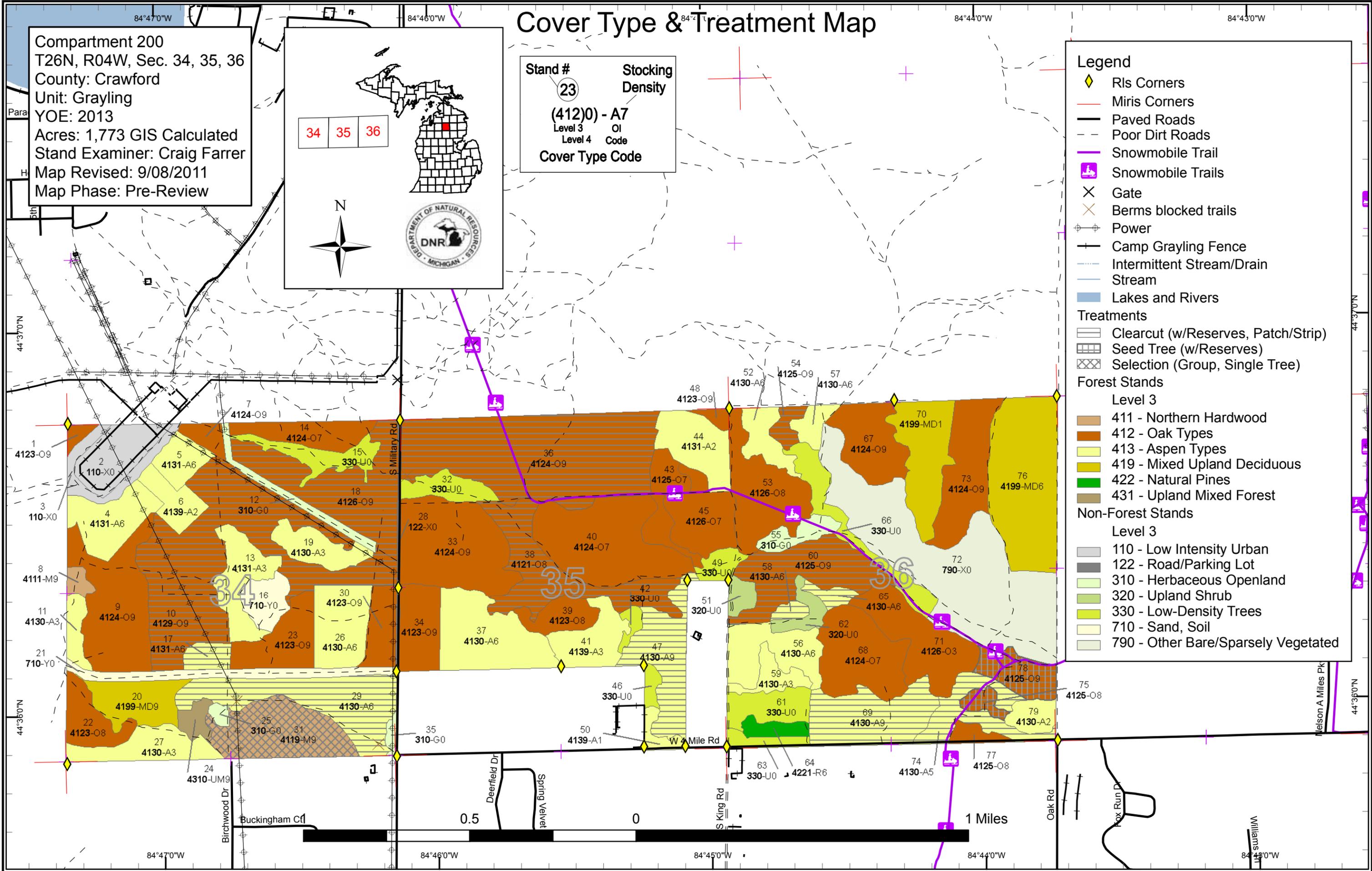
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 431 - Upland Mixed Forest

### Non-Forest Stands

Level 3

- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 710 - Sand, Soil
- 790 - Other Bare/Sparsely Vegetated



# Stand Boundary Map

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- Stream
- Stand Boundaries

### Forest Stands

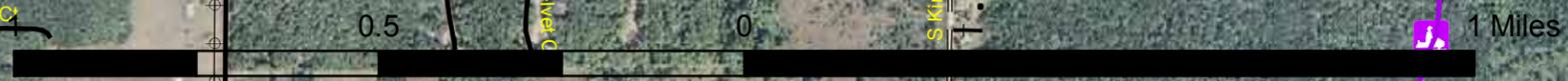
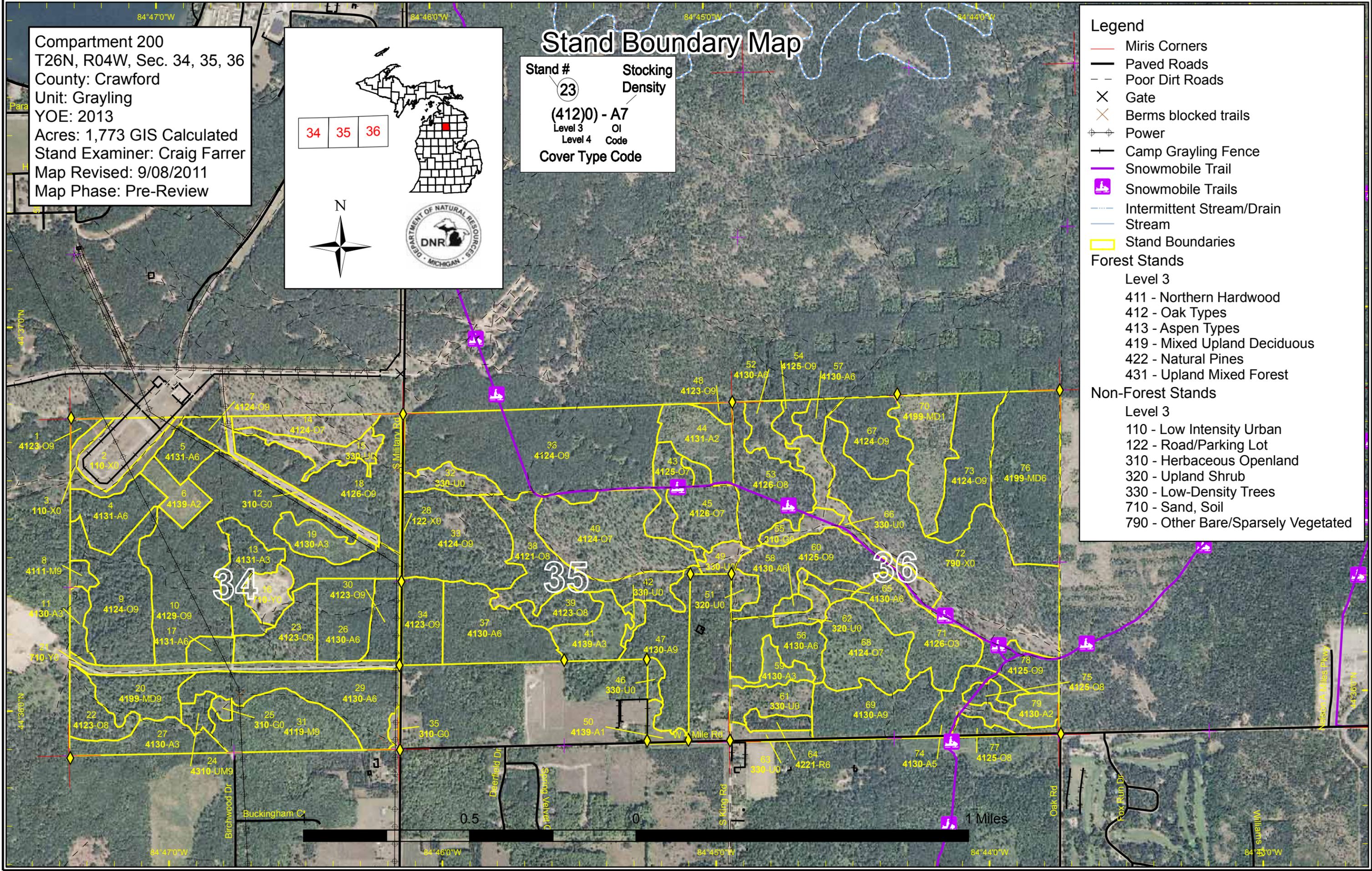
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**Table 1 – Total Acres by Cover Type and Age Class**



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Unretn Age
Aspen	0	60	116	90	45	54	40	32	0	0	0	0	0	0	0	437
Bare/Sparsely Vegetated	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Herbaceous Openland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Low-Density Trees	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Mixed Upland Deciduous	0	0	32	63	0	0	0	0	21	0	0	0	0	0	0	116
Northern Hardwood	0	0	0	0	0	0	0	0	0	4	39	0	0	0	0	42
Oak	0	0	36	0	0	0	0	0	115	581	138	0	0	0	0	869
Red Pine	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Sand, Soil	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Upland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Urban	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
<b>Total</b>	<b>296</b>	<b>60</b>	<b>184</b>	<b>153</b>	<b>45</b>	<b>60</b>	<b>40</b>	<b>32</b>	<b>136</b>	<b>590</b>	<b>177</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1773</b>



## Table 2 – Proposed Treatment Summaries

**Grayling Mgt. Unit**  
**Year of Entry 2013**

**Compartment 200**  
**Total Compartment Acres: 1773**

### Acres by Treatment Type

Commercial Harvest - 575	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen</b>	153	0	0	0	0	0	153
<b>Northern Hardwood</b>	0	39	0	0	0	0	39
<b>Oak</b>	363	0	21	0	0	0	384
<b>Total</b>	<b>516</b>	<b>39</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>575</b>



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
10	72200010-Cut	111.5	4129 - Mixed Oak	High Density Log	82	Harvest	Clearcut with Reserves	4129 - Mixed Oak	Cmpt. Review Proposal
<p><u>Prescription:</u> Recommend final harvest with reserves. Leave islands of various sizes to throughout the stand for retention as well as visual management.  <u>Specs:</u> Some slopes within the stand maybe to steep to treat.  <u>Other Comments:</u> Military/Hanson Refuge. Turn in RDR for hills and pit stand surrounds.  <u>Next Steps:</u> Follow up with a regeneration survey. Hope for Oak regeneration from stump sprouting, bu will except a mixture of species that will regenerate naturally.</p>									
17	72200017-Cut	6.9	4131 - Aspen, Oak	High Density Pole	43	Harvest	Clearcut	4131 - Aspen, Oak	Cmpt. Review Proposal
<p><u>Prescription:</u> Recommend final harvest with no retension. Use military specification within the sale contract. Treat stand with stand 29.  <u>Specs:</u>  <u>Other Comments:</u>  <u>Next Steps:</u> Will naturally regenerate to Aspen with a mix of other species.</p>									
18	72200018-Cut	51.3	4126 - White, Black, N. Pin Oak	High Density Log	83	Harvest	Clearcut with Reserves	4126 - White, Black, N. Pin Oak	Cmpt. Review Proposal
<p><u>Prescription:</u> Recommend final harvest, but leave 5 -6 4 acre patches along Military Road and the power line that are accessable for harvest next year of entry or two. Therefore now future regeneration needs to be damaged to get to the patches in the future. DO NOT CUT the Hemlock that is in the South east corner of the stand. Use millitary specifications within the timber sale contract.  <u>Specs:</u>  <u>Other Comments:</u>  <u>Next Steps:</u> Follow up with a regeneration survey. Hope to get Oak regeneration from stump sprouts, bu will accept a mixture of species naturally.</p>									
29	72200029-Cut	47.3	4130 - Aspen	High Density Pole	43	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription:</u> Recommend final harvest, but leave patches of 2-3 acres in size scattered throughout the stand for visual and retension. Try to include some Oak and Red Maple witin these patches along with the Aspen. Use military specifications within the timber sale contract.  <u>Specs:</u>  <u>Other Comments:</u>  <u>Next Steps:</u> Aspen should regenerate naturally with a mix of other speicies</p>									
31	72200031-Cut	38.6	4119 - Mixed Northern Hardwoods	High Density Log	98	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<p><u>Prescription:</u> Recommending thinning the stand to 90 BA and creating some regeneration gaps within the stand. Use military restriction when setting up the timber sale.  <u>Specs:</u>  <u>Other Comments:</u> Even aged hardwood stand. Trying to move it toward an uneven aged stand.  <u>Next Steps:</u> No following treatment after harvest.</p>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36	72200036-Cut	111.7	4124 - Red with White Oak	High Density Log	83	Harvest	Clearcut with Reserves	4124 - Red with White Oak	Cmpt. Review Proposal
<p><u>Prescription</u> Recommend a final harvest with reserves. Leave large islands throughout the stand for visual management and the protection of military compass points. Recommend leave island to be 40% crown closure (shelterwood seed)</p> <p><u>Specs:</u></p> <p><u>Other</u> In next entry year remove the overstory in the patches that were left this year of entry.</p> <p><u>Comments:</u></p> <p><u>Next</u> Follow up with a regeneration survey. Will accept a mix of species.</p> <p><u>Steps:</u></p>									
38	72200038-Cut	43.8	4121 - Oak, Aspen	Medium Density Log	83	Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Recommend final harvest, but leave all White Oak and Pine within the stand. Protect all heavy dense Oak and Red maple regeneration pockets.</p> <p><u>Specs:</u> Cut all merchantable cherry. Use military specifications within the sale contract.</p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next</u> Stand will naturally regenerate to Aspen with a mix of Oak and Red Maple.</p> <p><u>Steps:</u></p>									
47	72200047-Cut	32.2	4130 - Aspen	High Density Log	63	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Recommend final harvest with retention. Use military specification within the timber sale contract.</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next</u> Should regenerate naturally to Aspen again with a mix of other species.</p> <p><u>Steps:</u></p>									
54	72200054-Cut	5.2	4125 - Black, N. Pin Oak	High Density Log	82	Harvest	Clearcut	4125 - Black, N. Pin Oak	Cmpt. Review Proposal
<p><u>Prescription</u> Recommend final harvest with no retention. Use military specifications within sale contract. Treat with stand 48.</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next</u> Hope to get Oak regen naturally but will accept a mix of species.</p> <p><u>Steps:</u></p>									
58	72200058-Cut	3.1	4130 - Aspen	High Density Pole	53	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Recommend final harvest with no retention. Use military specifications within the sale contract. Treat with stand 60 and 65.</p> <p><u>Specs:</u></p> <p><u>Other</u> Trying to expand the aspen.</p> <p><u>Comments:</u></p> <p><u>Next</u> Should regenerate to Aspen naturally.</p> <p><u>Steps:</u></p>									
60	72200060-Cut	39.9	4125 - Black, N. Pin Oak	High Density Log	78	Harvest	Clearcut with Reserves	4125 - Black, N. Pin Oak	Cmpt. Review Proposal
<p><u>Prescription</u> Remove all the overstory except for the Red and White Pine. Protect all patches of Oak regeneration. Use military specifications when setting up the contract. Treat stand 58 and 65 with this stand. Treat in summer if possible.</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next</u> Follow up with an regeneration survey. Will accept a mix of species.</p> <p><u>Steps:</u></p>									

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



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
65	72200065-Cut	4.4	4130 - Aspen	High Density Pole	35	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal

Prescription Final harvest with no retention. Treat with stand 58 and 60. Use military specification within the sale contract.

Specs:

Other

Comments:

Next Should regenerate to Aspen naturally

Steps:

69	72200069-Cut	37.1	4130 - Aspen	High Density Log	51	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Recommend final harvest, but leave some small patches and individually marked trees along 4 Mile Road for retention and visual management.

Specs: Leave all Oak within 4 chains of the road. Use military specification in contract

Other

Comments:

Next Should regenerate to aspen naturally with a mix of other species

Steps:

74	72200074-Cut	21.6	4130 - Aspen	Medium Density Pole	33	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
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Prescription Recommend final harvest, removing all Aspen and Cherry that is merchantable and leave all Oak, Red maple and Pine within the stand. This is

Specs: for visual management along 4 Millie Road. Protect the snowmobile trail and use military specifications within the sale contract.

Other

Comments:

Next Should regenerate to Aspen and even expand the aspen.

Steps:

75	72200075-Cut	4.8	4125 - Black, N. Pin Oak	Medium Density Log	83	Harvest	Seed Tree	4125 - Black, N. Pin Oak	Cmpt. Review Proposal
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Prescription Recommend Seed tree cut. Leave 10 to 20 BA of Oak and any pine within the stand. Use military specifications within the sale contract. Protect

Specs: the snowmobile trail.

Other

Comments:

Next

Steps:

78	72200078-Cut	16.0	4125 - Black, N. Pin Oak	High Density Log	78	Harvest	Seed Tree	4125 - Black, N. Pin Oak	Cmpt. Review Proposal
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Prescription Recommend seed tree cut. Leave 10-20 BA in Oak and leave all Red and White pine. Protect any Oak regen and protect snowmobile trail. Use

Specs: military specification in contract.

Other

Comments:

Next Hope to get oak naturally, but will accept a mix of species

Steps:

**Total Treatment  
Acreage Proposed: 575.4**

**Table 4 -- Treatments Prescribed with a Limiting Factor**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

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**Total Treatment Acreage Proposed: 0**

Out of YOE -- Treatments  
Prescribed with No Limiting Factor

Year of Entry: 2013



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription  
Specs:

Other  
Comments:

Next  
Steps:

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**Total Treatment  
Acreage Proposed: 0**

S t a n d	Grayling Mgt. Unit		5 – Forested Stands			Compartment: 200	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
1	4123 - Red Oak	High Density Log	2.5	83			Small stand of Oak on north side of military ammo depot. Small acreage, treat with stand to the north in comp to the north.
4	4131 - Aspen, Oak	High Density Pole	23.3	15			Aspen/Oak stand with Red maple and some pine. Last harvested in 1976(final harvest).
5	4131 - Aspen, Oak	High Density Pole	11.2	15			Aspen/Oak stand with Red maple mixed in. Same as stand 5 in which was together last inventory. Military wanted piece cut out to expand ammo depot.
6	4139 - Aspen, Mixed Deciduous	Medium Density	12.0	4			Stand was cut in 2004 and broke stands 5 and 6 in half for proposed military expansion of ammo depot.
7	4124 - Red with White Oak	High Density Log	5.9	84	81-110		Mature stand of Red maple, White Oak and Red Oak
8	4111 - S.Maple, Hard Mast Association	High Density Log	3.5	86	51-80		Small Northern hardwood stand. Should have been treated with adjacent stand.
9	4124 - Red with White Oak	High Density Log	48.7	82			Stand thinned via removal in 1995, 42 BA residual. Heavy Red maple and Aspen regen. Lots of Witch hazel too.
10	4129 - Mixed Oak	High Density Log	111.5	82			Stand of Oak, Aspen and Red Maple located on and around Three Sister Range. Some very steep terrain. Military.
11	4130 - Aspen	High Density Sapling	7.3	17			
13	4131 - Aspen, Oak	High Density Sapling	22.1	16			Immature Aspen stand with scattered pockets of Oak in the overstory. When stand was harvested about 16 years ago, patches of 60-80 BA of OAK was left for visual. Most of it appears in the north end of stand.
14	4124 - Red with White Oak	Low Density Log	17.6	84			Stand was harvested in 2008-2009 under contract 726420801 with adjaent stand in comp to the north. Treated out of entry year and approved at the review. FTP C72-624 filed. Military.
17	4131 - Aspen, Oak	High Density Pole	6.9	43			
18	4126 - White, Black, N. Pin Oak	High Density Log	51.3	83			
19	4130 - Aspen	High Density Sapling	15.1	7			Stand was harvested in 2007 under contract 720390301. Aspen, Red maple and Oak regen.
20	4199 - Other Mixed Upland Deciduous	High Density Log	21.2	76			Mixed upland forest of Oak, Red maple and White Pine. Stand was previously harvested in 1994 under contract 720459301. Stand was thinned via removal (59 BA of Oak and Red maple left).



Stand	Grayling Mgt. Unit		5 – Forested Stands			Compartment: 200	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
22	4123 - Red Oak	Medium Density Log	15.9	92			Stand was thinned in 2007 under contract 720140301 Military & King Rd Oak. Mostly Red maple and White pine regen in understory. Some Aspen and Beech regen. Very little Oak regen. 70BA residual.
23	4123 - Red Oak	High Density Log	22.3	70			Species removal in 2005 under contract 720040301 Small 4 Mile blocks. Red maple, Aspen and some White Oak removed. Red maple and Aspen regen in understory. Very little Oak regen.
24	4310 - Pine, Oak Mix	High Density Log	5.7	86			
26	4130 - Aspen	High Density Pole	25.6	26			Stand was last harvested in 1985. Young Aspen pole stand mixed with other deciduous species and some pine.
27	4130 - Aspen	High Density Sapling	20.3	16			Immature Aspen stand mixed with Red maple and some Beech. Harvested with stand in comp to the south. East end of stand has a couple of small pockets of Oak in overstory.
29	4130 - Aspen	High Density Pole	47.3	43			
30	4123 - Red Oak	High Density Log	13.6	90			Stand was previously cut in the past. Stand borders Military rd.
31	4119 - Mixed Northern Hardwoods	High Density Log	38.6	98			
33	4124 - Red with White Oak	High Density Log	53.4	91			Stand was thinned to 60 BA in 2007 under contract 720140301 Military & King Rd Oak. Very little Oak stump sprouts or regen. Mostly Red maple regen, especially from stump sprouts.
34	4123 - Red Oak	High Density Log	20.3	90	51-80		
36	4124 - Red with White Oak	High Density Log	111.7	83	111-140		Large mixed Oak stand with some Red maple and Aspen within it. Very little understory, red maple mostly. Park-like understory. Military (Hanson refuge). Snowmobile trail traverses through stand. Two to three new military compass course markers within stand or near edge of stand.
37	4130 - Aspen	High Density Pole	39.7	27			Aspen stand mixed with Red maple. Stand has just reached pole size.
38	4121 - Oak, Aspen	Medium Density Log	43.8	83			Oak stand with Aspen pockets and scattered Red maple. Some dense pockets of Oak throughout the stand along with single trees and clumps of 2 or three. Heavy mixed understory of Red maple and Oak pockets. Heavy cherry brush throughout stand and in pockets. Lots of dead Oak within the stand.
39	4123 - Red Oak	Medium Density Log	12.3	88			Stand was harvested in 2005 under contract 72-004-03-01 Small 4 Mile Blocks. Stand was previously part of stand to the south. Everything cut but the Oak.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4124 - Red with White Oak	Low Density Log	56.2	83		Stand was thinned to 60BA. Cut in 2007 under contract 720250301 Orientation Point Oak. Some of the Oak has died. Patchy Red maple/Aspen regen pockets. Red maple regen from stump sprouts. Some individual Oak regen of various sizes (seedlings to saplings).
41	4139 - Aspen, Mixed Deciduous	High Density Sapling	19.2	6	1-50	Stand harvested in 2005 under contract 720040301 Small 4Mile Blocks. Thick Aspen regen mixed with Red maple. Approximately 10 BA of OAK LEFT FOR MAST scattered throughout stand.
43	4125 - Black, N. Pin Oak	Low Density Log	15.5	82	1-50	
44	4131 - Aspen, Oak	Medium Density	22.9	15		Last harvested in 1996. Immature Aspen, Red maple and Oak stand. Aspen dense in south part of stand and around the edges. Oak and Red maple throughout stand.
45	4126 - White, Black, N. Pin Oak	Low Density Log	24.7	82	1-50	Stand shelterwood seed cut in 2007 under contract 720140301 Military & King Rd Oak. Heavy pockets of Aspen and Red maple regen in understory as well as cherry brush.
47	4130 - Aspen	High Density Log	32.2	63		Over mature Aspen stand mixed with maple.
48	4123 - Red Oak	High Density Log	2.7	83	51-80	Small stand of mixed Oak with some Red maple mixed within it. Red maple understory. Military (Hanson Refuge).
50	4139 - Aspen, Mixed Deciduous	Low Density Sapling	4.9	4		Trenched and planted in 2007 after harvested to Red pine. Aspen, Red maple, some Oak and cherry shrub is overtopping most of the planted seedlings
52	4130 - Aspen	High Density Pole	11.8	35		New stand added. Quaking Aspen pole stand with cherry and red maple in understory. Some mixed pine in understory.
53	4126 - White, Black, N. Pin Oak	Medium Density Log	35.8	82	1-50	Stand harvested in 2007 under contract 720140301 Military & King Rd Oak. Stand was thinned to 40-50 BA with 2 acre openings created. Some mortality in the Oak has occurred. Red maple, Aspen has naturally occurred in the openings with some Oak. Regen throughout the stand occurring, but less dense. Lots of cherry brush throughout the stand. Military.
54	4125 - Black, N. Pin Oak	High Density Log	5.2	82	111-140	Small stand of mature Oak, Pine and Red maple. Military.
56	4130 - Aspen	High Density Pole	24.8	26		Aspen stand just reaching pole size. Mixed with other deciduous species.
57	4130 - Aspen	High Density Pole	6.6	35		New stand added.
58	4130 - Aspen	High Density Pole	3.1	53		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	4130 - Aspen	High Density Sapling	8.9	15		Standd was harvested in 2007 under contract 720040301 Small 4 Mile Blocks. Aspen regen.
60	4125 - Black, N. Pin Oak	High Density Log	39.9	78	81-110	Mixed Oak stand mixed with mixed pine. Some Red maple also. Lots of dead Oak and some blow down. Firewood cutter have been going at it.
64	42210 - Natural Red Pine	High Density Pole	6.0	42	1-50	Planted Red pine with Scotch and Jack pine mixed. Strip of Jack pine and Scotch pine removed south of stand. Stand is visible from 4 Mile rd.
65	4130 - Aspen	High Density Pole	4.4	35		30 year old Quaking Aspen stand.
67	4124 - Red with White Oak	High Density Log	25.7	87	51-80	
68	4124 - Red with White Oak	Low Density Log	36.8	70		Stand was harvested by Prison crew in 2004-2006 under contract 720380301 Oakley Doakley Oak 10BA of Red Oak was left and 10BA of White Oak was left. Some of the Oak that was left died. A few scattered conifer were also left. A fair amount of Oak, Red maple and Aspen regen exists in the understory.
69	4130 - Aspen	High Density Log	37.1	51		Stand of Aspen mixed with Red maple. Some Oak and Paper birch. Paper birch dying out. Stand borders 4 Mile rd. Military.
70	4199 - Other Mixed Upland Deciduous	Low Density Sapling	32.2	15		Harvested in 1998 under contract 720429301 Fevered Forester block. Oak and Red maple mix. Aspen pockets on the edges.
71	4126 - White, Black, N. Pin Oak	High Density Sapling	35.5	14		Cut in 1997 under contract 720429301 Fevered Forester block. Mixed Oak regen with some Red maple and Aspen mixed within the stand.
73	4124 - Red with White Oak	High Density Log	34.8	91	111-140	Stand of mixed Oak with other deciduous species. Some mixed pine also. Military (Hanso Refuge). New military compass course marker in south part of stand. Stand was evaluated in 10/4/10 to salvage due to Oak wilt. Stand has not been cut. If not cut, it was recommended to be underplanted with Red and White pine. A vairance was received.
74	4130 - Aspen	Medium Density Pole	21.6	33		
75	4125 - Black, N. Pin Oak	Medium Density Log	4.8	83		
76	4199 - Other Mixed Upland Deciduous	High Density Pole	62.9	27		Stan of mixed Oak with other deciduous species and some conifer mixed within stand. Just reaching pole size.
77	4125 - Black, N. Pin Oak	Medium Density Log	5.0	83		

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Grayling Mgt. Unit

5 – Forested Stands

Compartment: 200  
Year of Entry: 2013



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
78	4125 - Black, N. Pin Oak	High Density Log	16.0	78	51-80	Mixed Oak stand with deciduous and conifers mixed. Red maple and oak regen in understory. Snowmobile trail traverses through stand and along side the north portion of stand. Military leased.
79	4130 - Aspen	Medium Density	8.5	5		Stand was harvested in 2005 under 72-004-03-01 Small 4 Mile Blocks. Immature Aspen stand mixed with other deciduous species.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	11 - Low Intensity Urban	21.9	No	Unspecified	Fenced Military Ammo storage facility.
3	11 - Low Intensity Urban	11.5	No	Unspecified	Open area surrounding military ammo storage facility. Partially mowed by military.
12	310 - Herbaceous Openland	8.9	No	Unspecified	Power line and cleared right-of-way. Two track trail runs up and down it.
15	3301 - Low Density Deciduous Tree	14.2	No	Unspecified	Low density deciduous trees. Other wise herbacious opening.
16	710 - Sand, Soil	11.8	No	Unspecified	Old borrow pit on south side of Three Sisters Range.
21	710 - Sand, Soil	17.9	No	Unspecified	Two track rd that was wided and improved upon by the military. Access to their gravel pit in adjacent comp to the west (186).
25	3105 - Mixed Upland Herbaceous	2.2	No	Unspecified	
28	122 - Road/Parking Lot	4.4	NVA	Unspecified	
32	3301 - Low Density Deciduous Tree	11.6	No	Unspecified	
35	3105 - Mixed Upland Herbaceous	2.1	No	Unspecified	
42	3303 - Mixed Low Density Trees	3.1	NVA	Unspecified	Clumps of Jack pine, Red maple and Oak. Scattered Aspen. Treat with Aspen stand next to stand. Use this as a landing for Aspen stand next to it. Stand swapped from Forested to Non-Forested.
46	3303 - Mixed Low Density Trees	3.3	No	Upland Mixed Forest	Stand swapped from Forested to Non-Forested.
49	3303 - Mixed Low Density Trees	6.5	No	Unspecified	
51	3204 - Mast Producing Shrub	5.3	No	Unspecified	Stand swapped from Forested to Non-Forested.
55	310 - Herbaceous Openland	8.8	No	Unspecified	Open herbacious stand. A few scattered cherry and some encroachment of tree species.
61	3303 - Mixed Low Density Trees	15.3	No	Unspecified	Stand swapped from Forested to Non-Forested.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
62	3205 - Mixed Upland Shrub	7.2	No	Unspecified	Stand swapped from Forested to Non-Forested.
63	3303 - Mixed Low Density Trees	5.8	Yes	Red Pine	Stand trenched and planted to Red pine in 2007 after harvest. Red piine plantation with a mix of tree speices and shrubs over topping (1-2 inch saplings). Stand borders 4 Mile rd.
66	3303 - Mixed Low Density Trees	20.0	No	Unspecified	
72	790 - Other Bare/Sparsely Vegetate	114.4	Yes	Oak	Stand just final harvested late winter early spring 2011. Oak salvage cut.



### 7 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Stand	SCA Type	SCA Name	Acres	Comments



**8 – DEDICATED CONSERVATION AREA DETAILS**

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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.