



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72260

Entry Year 2023

Acreage: 1,927

County Crawford

Management Area: Camp Grayling

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**Revision Date:** 2020-11-25

**Stand Examiner:** Kevin Ehlert

### Legal Description:

Crawford County, NE Grayling Township, T27N R02W Sections 22, 23 and 24

### Identified Planning Goals:

This area is covered by the long-term military lease L-1479. The primary management goal of the area is to manage resources in a way that is compatible with military training needs. Additional goals are to manage and maintain species diversity, structural diversity, health, productivity, and sustainability of the resources throughout the compartment. All management plans are subject to the National Guard's approval, because of the long-term lease agreement.

### Soil and topography:

Hardwood areas are dominated by Roselawn Sands while the pine areas are primarily Grayling Sands. The terrain within the compartment is flat with a few steep hills.

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

The entire compartment is contiguous state ownership except for the south half of the southeast quarter (S1/2 SE1/4), northwest of southeast quarter (NW1/4 SE1/4), and the southwest quarter of northeast quarter (SW1/4 NE1/4 of section 23 which is military board land. This area is under the 1935 long-term lease agreement L-1479 (Act 154 P. A. 1935) with the Michigan National Guard. The agreement provides for use by the military during their encampment, with no permanent buildings or improvements to be erected.

### Unique Natural Features:

The Bald Hill fire burned into the northern portions of section 23 while the Stephan Bridge Fire burned the southern portion of section 24.

### Archeological, Historical, and Cultural Features:

None recorded.

### Special Management Designations or Considerations:

Military training

### 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. Snowshoe hare, deer, grouse and turkey habitat should be considered as management objectives.

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

### Vehicle Access:

Access is obtained from the county roads of Bald Hill Road and Wakeley Bridge Road. The compartment also contains state forest roads. No existing trails need to be closed. All new roads created through management activities are to be closed.

### Survey Needs:

None needed.

### Recreational Facilities and Opportunities:

The compartment does not contain any designated recreational trails or facilities. Dispersed recreational opportunities including rabbit hunting occurs throughout the compartment.

**Fire Protection:**

The current road system is adequate, and no nearby water source within compartment.

**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**

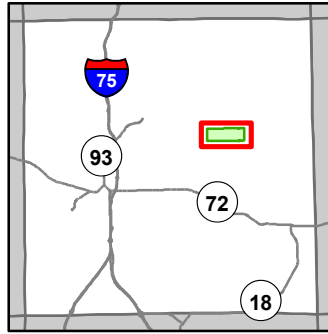
The following information is displayed, where pertinent, on the attached compartment maps:

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

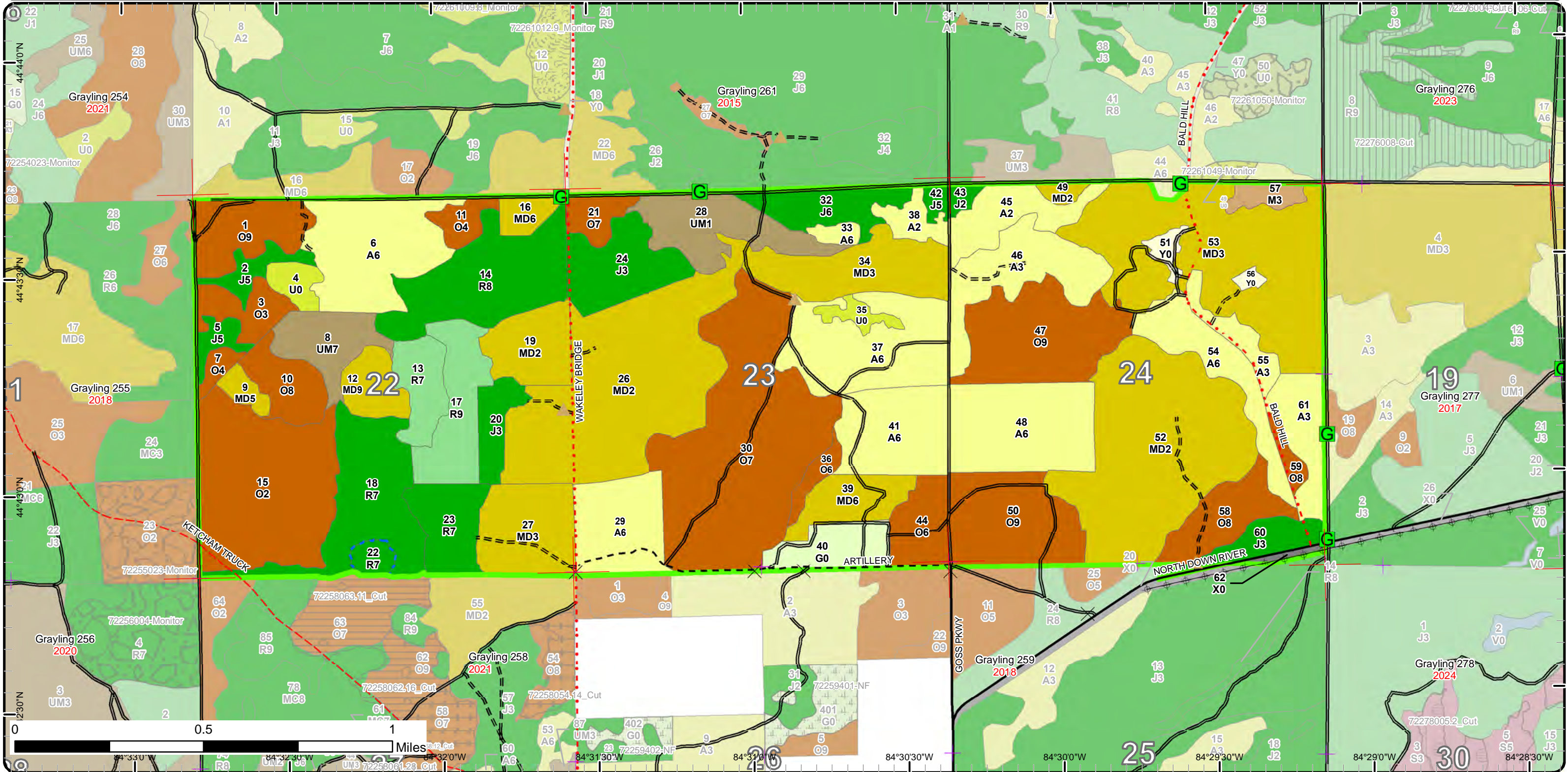


# Cover Type & Treatments Map

Compartment: 260  
 T27N R02W 22-24  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2023  
 Acres: 1926.6 GIS Calculated  
 Examiner: Kevin Ehler  
 Map Revised: 9/1/2021  
 Map Phase: Review



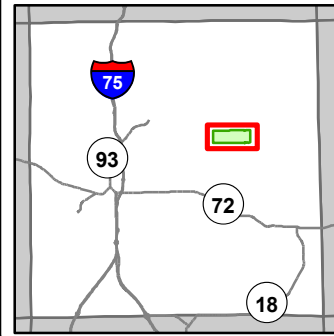
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- ▲ Berms
- G Gate
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 710 - Sand/Soil
- X Camp Grayling Gates



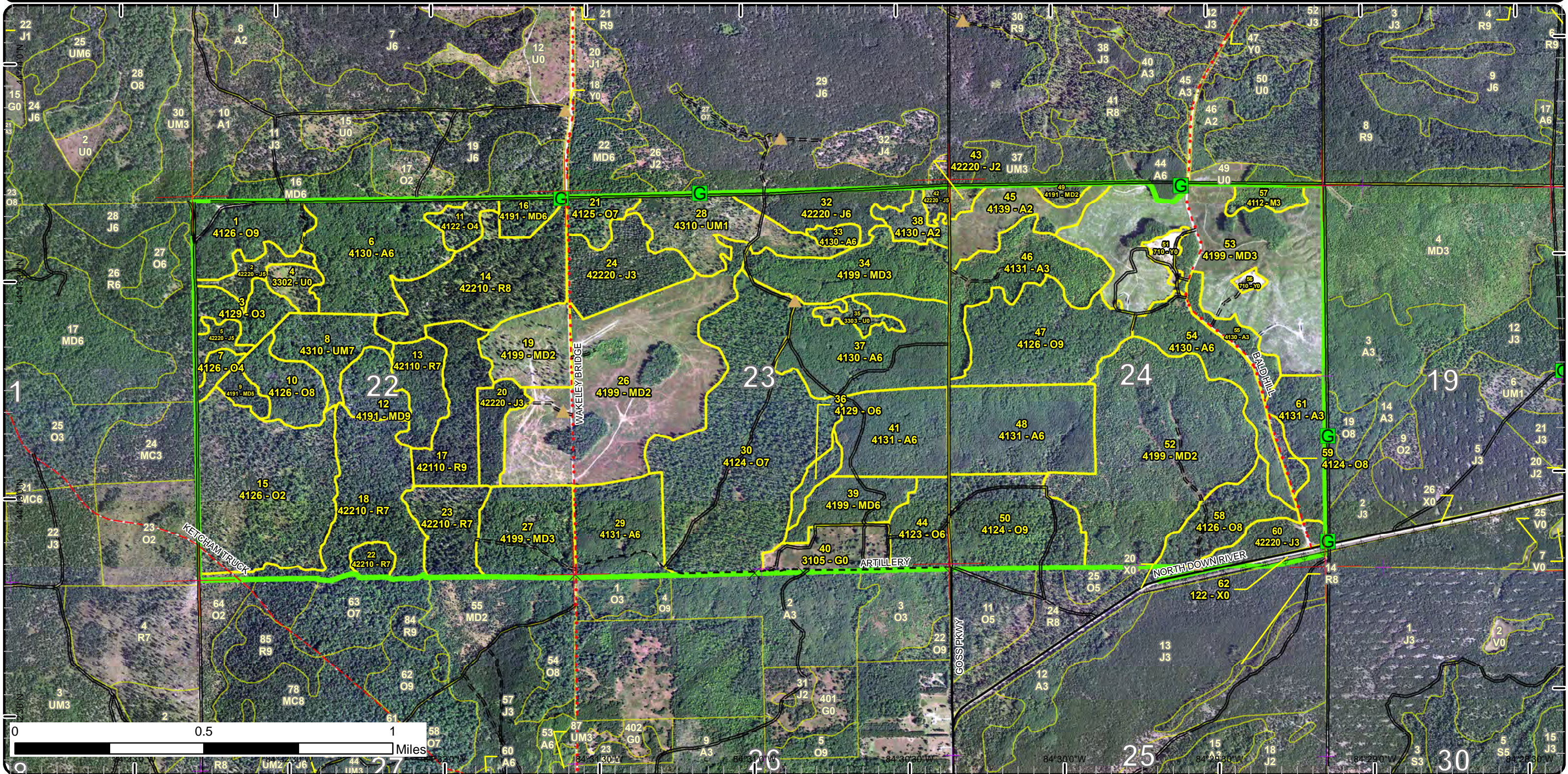


# Stand Boundary Map

Compartment: 260  
 T27N R02W 22-24  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
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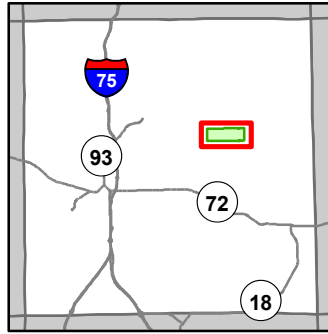
- Miris Corners
  - + Remonumented Section Corners
  - Counties
  - DNR - Secondary Forest Road
  - DNR - Forest Access Route
  - Federal / State / County - Paved Road
  - Federal / State - Dirt / Gravel Road
  - County - Gravel Road
  - County - Dirt Road (Seasonal)
  - ▲ Berms
  - G Gate
  - Powerline
  - Compartment Boundary
  - Stand Boundaries
- 411 - Northern Hardwood
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  - 421 - Planted Pines
  - 422 - Natural Pines
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  - 330 - Low Density Trees
  - 710 - Sand/Soil
  - ✕ Camp Grayling Gates



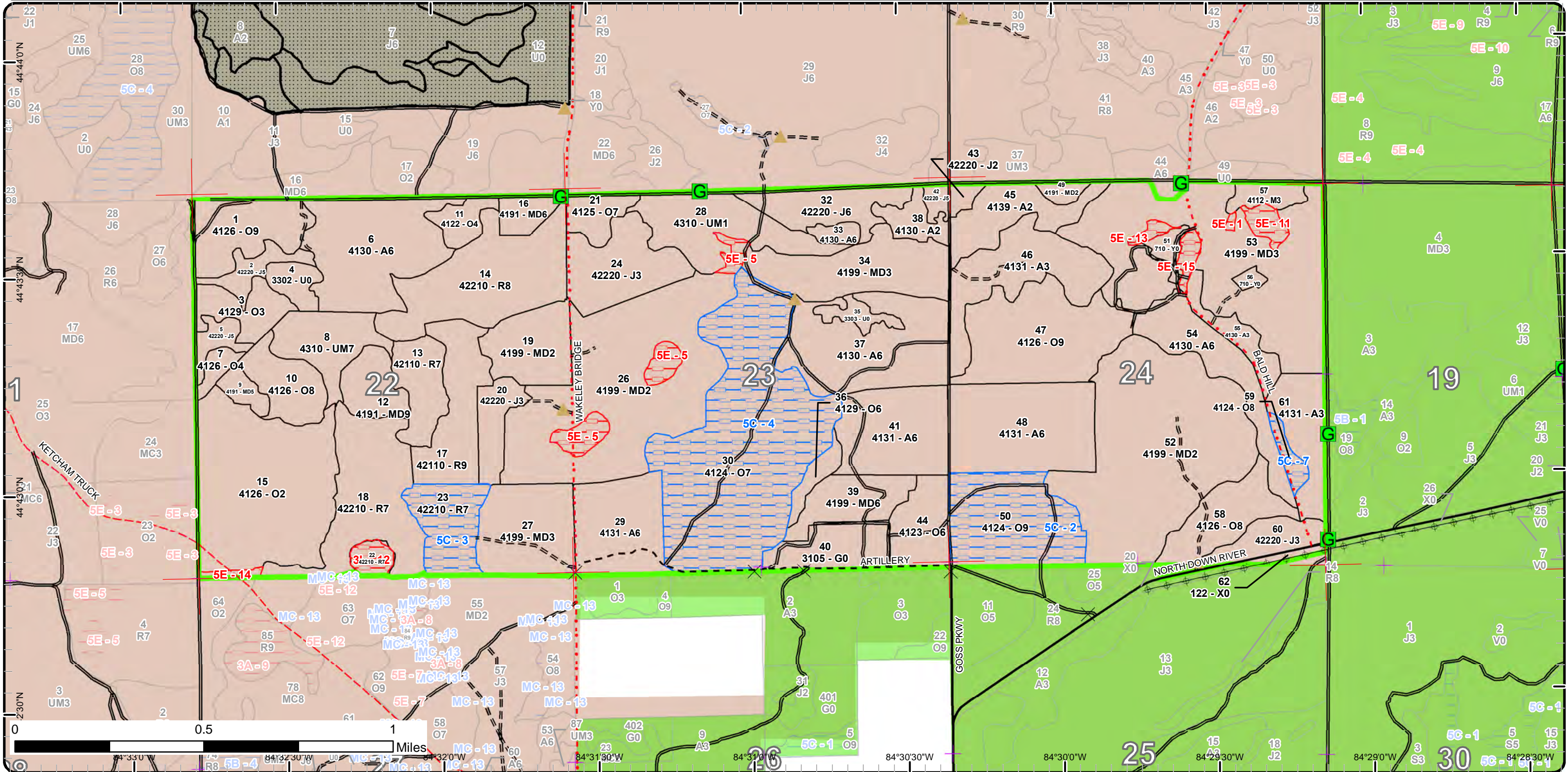


# Special Conservation Areas

Compartment: 260  
 T27N R02W 22-24  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2023  
 Acres: 1926.6 GIS Calculated  
 Examiner: Kevin Ehler  
 Map Revised: 9/1/2021  
 Map Phase: 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)
  - ▲ Berms
  - G Gate
  - Powerline
  - Compartment Boundary
  - Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
  - Unavailable
  - 3L: Other wildlife concerns
  - 5E: Long-Term Retention
  - Stand Boundaries
  - SCA
  - Kirtland Warbler Habitat
  - Research, Development, and Military Lands
  - Habitat Corridor
  - X Camp Grayling Gates





Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	26	43	22	214	107	0	0	0	0	0	0	0	0	0	0	0	0	411
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Jack Pine	0	0	4	66	0	46	0	0	0	0	0	0	0	0	0	0	0	0	116
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	293	134	39	44	9	0	0	22	22	0	0	0	0	0	0	0	0	562
Northern Hardwood	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Oak	0	0	0	96	0	31	31	22	0	58	237	5	28	0	0	0	0	0	508
Red Pine	0	0	0	0	0	0	0	20	123	0	64	0	0	0	0	0	0	0	207
Sand, Soil	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	40	0	0	26	0	0	0	0	0	0	0	0	0	0	0	66
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>48</b>	<b>319</b>	<b>189</b>	<b>263</b>	<b>258</b>	<b>193</b>	<b>57</b>	<b>42</b>	<b>123</b>	<b>80</b>	<b>323</b>	<b>5</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1926</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 260

Total Compartment Acres: 1,927

Commercial Harvest - 250  
 Harvests with Site Condition - 6  
 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	45	0	0	0	0	0	0	0	0	45
Oak	115	0	0	0	0	11	0	0	0	127
Red Pine	84	0	0	0	0	0	0	0	0	84
<b>Total</b>	<b>244</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>256</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	256	0	0	0	0	0	0	0	0	256
Next Step	0	201	101	0	0	101	356	0	0	759
<b>Total</b>	<b>256</b>	<b>201</b>	<b>101</b>	<b>0</b>	<b>0</b>	<b>101</b>	<b>356</b>	<b>0</b>	<b>0</b>	<b>1014</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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**Proposed Treatments:**

<b>9</b>	<b>72260009-Cut</b>	6.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	94	51-80	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up except leave sub merchantable red and white pine. No retention to maximize regeneration potential due to small stand size. Include 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> Mixed oak with aspen, other mixed deciduous and pine. Prefer 30% oak, but will accept any mixed deciduous.</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 /2022</p>											
<b>10</b>	<b>72260010-Cut</b>	20.8	4126 - White, Black, N. Pin Oak	Sawtimber Medium	94	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up. Follow standard retention guidelines utilizing area based retention. Use 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> A mix of oak, aspen and red maple with trace amounts of conifer. Prefer 40% of oak, but will accept any combination of mixed deciduous.</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 /2022</p>											
<b>12</b>	<b>72260012-Cut</b>	16.3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	99	81-110	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all species. Follow standard retention guidelines using area based retention. Include military specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> A fully stocked red pine plantation</p> <p><u>Regen:</u></p> <p><u>Other</u> Will be planted to red pine with adjacent stands 13 and 18.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /1 /2022</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>13 72260013-Cut</b>	20.2	42110 - Planted Red Pine	Sawtimber Poor	65	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all species. Follow standard retention guidelines using area based retention. Include military specs.  <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);  <u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> A fully stocked red pine plantation.  <u>Regen:</u></p> <p><u>Other</u> Will be planted to red pine with stands 12, 18, and 22.  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /1 /2022</p>										
<b>18 72260018.5_Cut</b>	58.2	42210 - Natural Red Pine	Sawtimber Poor	99	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up. Utilize area based retention including the retention from previous harvest in stand.  <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);  <u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> A fully stocked red pine plantation  <u>Regen:</u></p> <p><u>Other</u> Plant to red pine with stands 12, 13 and 22.  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /1 /2022</p>										
<b>21 72260021-Cut</b>	11.4	4125 - Black, N. Pin Oak	Sawtimber Poor	94	1-50	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 4" and up. No retention due to declining health of mature trees, small stand size, and to maximize potential for oak regeneration. Include military specs.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Mixed upland deciduous species, with a minor jack and red pine component.  <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 /2022</p>										
<b>22 72260022-Cut</b>	5.9	42210 - Natural Red Pine	Sawtimber Poor	96	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all species. No retention due to small stand size. Include military specs.  <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);  <u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> A fully stocked red pine plantation.  <u>Regen:</u></p> <p><u>Other</u> Will be planted to red pine with stands 18, 12 and 13.  <u>Comment:</u></p> <p><u>Site Condition</u> Wildlife Concerns</p> <p><u>Proposed Start Date:</u> 1 /1 /2022</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>36 72260036-Cut</b>	6.7	4129 - Mixed Oak	Poletimber Well	89	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up. No retention due to small stand size. Include military specs.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Regeneration is expected to be a mix of oak, aspen and red maple. Prefer 30% oak, but will accept and mix of upland deciduous meeting minimum stocking requirements.  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>39 72260039-Cut</b>	22.2	4199 - Other Mixed Upland Deciduous	Poletimber Well	89	111-140	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up. Follow standard retention guidelines, utilize island retention. Include military specs.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen with oak and red maple. Prefer 20% oak, but will accept and Aspen, mixed deciduous.  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>47 72260047-Cut</b>	60.1	4126 - White, Black, N. Pin Oak	Sawtimber Well	99	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, all species 2" and up. Follow standard retention guidelines, using island retention. Include military specs.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Regeneration will be a mix of aspen, red maple, oak and other deciduous species. Prefer 30% or more of oak, but accept any combination.  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>58 72260058-Cut</b>	27.6	4126 - White, Black, N. Pin Oak	Sawtimber Medium	110	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Final harvest stand. Follow standard retention guidelines, utilizing area based retention. Protect advanced regeneration of oak as much as feasible during harvest. Include military specs.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> A mixed oak stand with other deciduous species. Expect 60% cover of oak, but will accept other mixed upland deciduous.  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</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: 255.6



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 260  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions		
		With Condition	Not Available		5C	3L	5E
413	413	0	0	Aspen	0		0
23	23	0	0	Herbaceous Openland			
115	115	0	0	Jack Pine			
15	15	0	0	Low-Density Trees			
563	536	0	27	Mixed Upland Deciduous	0		27
8	8	0	0	Northern Hardwood			0
508	306	201	0	Oak	201		
207	173	26	8	Red Pine	26	6	2
7	7	0	0	Sand, Soil			0
65	65	0	0	Upland Mixed Forest			
3	3	0	0	Urban			
1,927	1,665	227	35	Total Forested Acres	227	6	29
	86%	12%	2%	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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	51	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold stand until next YOE for age class diversity.							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 260  
Year of Entry: 2023

3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	145	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-Term Retention for Stand 26. Wakely Winter Oak(72-614-13)							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Formerly active goshawk nest in stand. WLD to evaluate to determine if it's still active, if not include in harvest with stand 18 and plant to red pine.							



# Report 4 – Site Conditions

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 260  
Year of Entry: 2023

13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments





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

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

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

Conservation Area	Type	Description
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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	4126 - White, Black, N. Pin Oak	Sawtimber Well	31.3	55	51-80	N/A	Std harvested back in the 70's, more Red pine regen in the west half. Oak regen from stump sprouts. residual is 102yr																																																			
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2	42220 - Natural Jack Pine	Poletimber Medium	10.0	45	1-50	N/A	Natural jack pine filling in slowly. Open grown, limby and short.																																																			
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3	4129 - Mixed Oak	Sapling Well	16.7	45	1-50	N/A	Stand was harvested in past. All Red pine was left.																																																			
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4	3302 - Low Density Conifer Trees	Nonstocked	8.8			No	Open grassland with Jack pine saplings and poles encroaching around the edge. Frost pocket.																																																			
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6	4130 - Aspen	Poletimber Well	60.2	45	1-50	N/A	Aspen stand, pockets of mixed deciduous and scattered red pine.																																																			
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8	4310 - Pine, Oak Mix	Sawtimber Poor	25.7	56	1-50	N/A	Harvested 30 years ago. Residual pine and Oak and heavy Red maple regen. Lot of overmature/standing dead trees.																																															
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11	4122 - Oak, Pine	Poletimber Poor	9.4	44	1-50	N/A	Stand treated 35-40 yrs ago. Left all Red pine. Good stump sprouts and a few individual Oak trees.																																															
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12	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	16.4	99	81-110	N/A	Nice Oak stems (12-15" DBH). All stump origin. Less quality as you go south and west. More Red pine regen along east half.																																																		
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13	42110 - Planted Red Pine	Sawtimber Poor	20.2	65	1-50	N/A	Sale was cut in 2017 & 18 under contract 72-610-14, West Comp 260 Seed Tree. Residual BA was 31, mostly red pine log. Good oak regen, but still under 5'tall. Didn't really appear to get any red pine regeneration post harvest.																																																		
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14	42210 - Natural Red Pine	Sawtimber Medium	61.9	76	111-140	N/A	Good quality red pine, quite a few gaps filling in with oak and jack pine regen.																																																		
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15	4126 - White, Black, N. Pin Oak	Sapling Medium	95.5	28	Immature	N/A	Immature oak regen underneath with some red maple and jack pine. Less than 30sqft/ acre of residual oak from prior harvest which is in poor condition, and approximately 80 years old. Could cut it as mostly firewood or just leave the stand as is.																																																		
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<b>18</b>	42210 - Natural Red Pine	Sawtimber Poor	58.2	99	1-50	N/A	Sale was cut in 2017 & 18 under contract 72-610-14, West Comp 260 Seed Tree. Residual BA for stand was 30. Regen in sub canopy is still mostly under 5' tall and is mostly oak, maple and aspen. Didn't see any post harvest red pine regeneration yet.																																						
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<b>19</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	27.0	5	Immature	N/A	Stand was harvested under contract 72-614-13-01 Wakely Winter Oak. Some residual log size red pine.																																						
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<b>20</b>	42220 - Natural Jack Pine	Sapling Well	14.4	24	Immature	N/A	immature Jack pine, scattered red pine saps and small poles.																																						
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<b>21</b>	4125 - Black, N. Pin Oak	Sawtimber Poor	11.4	94	1-50	N/A	Over mature pin oak with a sub canopy of maple, pin oak and jack pine.																																						
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<b>22</b>	42210 - Natural Red Pine	Sawtimber Poor	5.9	96	1-50	N/A	Sale was cut in 2017 & 18 under contract 72-610-14, West Comp 260 Seed Tree. Residual BA for stand was 30. An active Goshawk nest was found in this stand and appropriate buffers were left as per our stick nest guidelines.																																						
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<b>23</b>	42210 - Natural Red Pine	Sawtimber Poor	25.8	70	1-50	N/A	Large red pine residual from prior harvest over top of an oak/pine sub canopy. red pine cores ranged from 65 to 95 years old. Fairly open grown and large diameter.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>24</b>	42220 - Natural Jack Pine	Sapling Well	34.7	26	1-50	N/A	Immature Jack pine stand mixed with some deciduous species (oak and cherry). Also an overstory of mature Jack pine (81yrs) exists throughout the stand (20 - 30 BA).	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Jack Pine		90	Sapling/Pole/Log	4	26	Cherry (spp.)		
Black Cherry		5	Sapling	2		Oak (spp.)		
Northern Pin Oak		5	Sapling	2				
<b>26</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	136.9	6	Immature	N/A	Stand was cut 72-614-13-01 wakenly winter oak. Regen consists of aspen, mixed oak and red maple with trace amounts of red and jack pine.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		35	Sapling	1	6			
Red Maple		20	Sapling	1				
Red Oak		23	Sapling	1				
White Oak		15	Sapling	1				
Jack Pine		5	Sapling	1				
Red Pine		2	Sapling	1				
<b>27</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	38.6	26	Immature	N/A	Oak/Aspen stand with some scattered Red pine saw timber. Stand was final harvested in 1995. East side of stand borders Wakely Bridge Road. Aspen is scattered in small pockets throughout the stand	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		12	Sapling	2		Red Maple		
Red Oak		36	Sapling	3	26	Red Pine		
White Oak		14	Sapling	3		Aspen (spp.)		
Bigtooth Aspen		25	Sapling/Pole	4		Oak (spp.)		
Red Pine		4	Sapling	3				
Red Pine		5	Log	10				
Jack Pine		4	Sapling	2				
<b>28</b>	4310 - Pine, Oak Mix	Sapling Poor	39.7	21	1-50	N/A	5-15' tall jack pine and oak. scattered pole and log size pin oak at a low density and declining, mostly in the west portion of stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Oak		10	Pole	7		Jack Pine		
Jack Pine		45	Sapling	3	21	Oak (spp.)		
Northern Pin Oak		15	Log	11	84			
Northern Pin Oak		20	Sapling	1	21			
Red Maple		10	Sapling	1				
<b>29</b>	4131 - Aspen, Oak	Poletimber Well	38.8	36	51-80	N/A	Stand of Aspen/Oak. Majority of stand is small pole size Aspen with pockets of Oak sprouts. Final harvested in 1985. Some Red and Jack pine scattered throughout stand. West side of stand borders Wakely Bridge Road. Stand is also under military lease.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Sapling	3		Red Maple		
Red Oak		14	Sapling/Pole	3		Red Pine		
White Oak		8	Sapling/Pole	3		Jack Pine		
Bigtooth Aspen		60	Pole/Sapling	6	36	Aspen (spp.)		
Red Pine		4	Sapling	3		Oak (spp.)		
Jack Pine		4	Sapling	3				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
<b>30</b>	4124 - Red with White Oak	Sawtimber Poor	144.6	94	1-50	N/A	Mature Oak stand (Red/White) with some scattered Red pine. Shelterwood cut in 2008 under contract 720180301 Artillary Trail Oak. Red maple/Oak/Aspen understory (regen).																																						
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<b>32</b>	42220 - Natural Jack Pine	Poletimber Well	24.7	44	1-50	N/A	Natural Jaack pine, mixed deciduous stand that regenerated after the Bald Hill fire. Small pole Jack pine (one stick).																																						
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<b>33</b>	4130 - Aspen	Poletimber Well	4.3	46	81-110	N/A	Pole size pocket of Aspen. Trace amounts of jp, rp, oak.																																						
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<b>34</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	44.2	35	Immature	N/A	Mixed deciduous stand. some stems approaching pole size but majority still saplings.																																						
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<b>35</b>	3303 - Mixed Low Density Trees	Nonstocked	6.3			No	clumps of Aspen and oak in a mostly open area.																																						
<b>36</b>	4129 - Mixed Oak	Poletimber Well	6.7	89	81-110	N/A	Mixed oak and Aspen over stump sprout red maple.																																						
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<b>38</b>	4130 - Aspen	Sapling Medium	10.2	26	1-50	N/A	Aspen stand mixed with Jack pine. Part of the Bald Hill fire. Stand opens up in the east to grass.																																																		
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<b>39</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	22.2	89	111-140	N/A	Stand was cut in 1963. Current oak appears to be residual from that harvest, and other species are mostly the regeneration from it.																																																		
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<b>40</b>	3105 - Mixed Upland Herbaceous	Nonstocked	22.8			No	Abandoned farm field with scattered White/Jack/Red pine trees and a few Oak and Cherry trees.																																																		
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<b>41</b>	4131 - Aspen, Oak	Poletimber Well	42.2	47	51-80	N/A	Pole size Aspen stand.																																																		
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<b>42</b>	42220 - Natural Jack Pine	Poletimber Medium	3.8	46	1-50	N/A	Stand of Jack pine with open grassy areas.																																																		
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<b>43</b>	42220 - Natural Jack Pine	Sapling Medium	3.5	15	Immature	N/A	Military leased. Natural jack pine with some cherry brush and grassy open pockets.																																																		
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<b>44</b>	4123 - Red Oak	Poletimber Well	21.8	61	51-80	N/A	Stand was shelterwood cut in 1993 and delayed removal cut in 1995. Some oak was left according to records. Oak aged 60, Aspen aged 44.																																																			
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<b>45</b>	4139 - Aspen, Mixed Deciduous	Sapling Medium	26.1	6	Immature	N/A	Harvested in May of 2015 under contract 72-637-13-01. Variable density of regen. Pockets of Aspen, mixed oak, and some more open areas with jack pine seeding in. Much of the regen other than the Aspen is still under 5' tall.																																																			
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<b>46</b>	4131 - Aspen, Oak	Sapling Well	43.2	15	Immature	N/A	Immature aspen stand with oak and red maple.																																																			
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<b>47</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	60.1	99	81-110	N/A	Mixed Oak stand with some Aspen and Red maple. Stand is poor quality due to fire in past. Lots of fire scarring decay on larger trees. Heavy Oak, Red maple and Aspen understory/ regen. Bald Hill fire in 1975.																																																			
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<b>48</b>	4131 - Aspen, Oak	Poletimber Well	58.4	36	51-80	N/A	Aspen std mixed with oak as you go north to ridge top. Starting to transition to merchantable size class.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**49** 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 4.0 15 Immature N/A Immature jack pine, pin oak, red maple and cherry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	1		Jack Pine	Medium	< 5 feet	Seeding
Bigtooth Aspen	15	Sapling	1		Oak (spp.)	Low	< 5 feet	Seeding
Northern Pin Oak	50	Sapling/Pole	3	15				
Jack Pine	30	Sapling	1					

**50** 4124 - Red with White Oak Sawtimber Well 51.4 89 51-80 N/A Stand was thinned in 1995. Ridge of Oak in center of std surrounded by valley of Oak/pine especially on the north side.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	68	Log/Pole	12	89	Red Maple	Medium	Variable	Sapling
White Oak	20	Log/Pole	10		Red Pine	Low	Variable	Sapling
White Pine	2	Log/Pole	10		Aspen (spp.)	Medium	Variable	Sapling
Red Pine	10	Log/Pole	12		Oak (spp.)	Low	Variable	Sapling

**51** 710 - Sand, Soil Nonstocked 5.0 Immature Managed Opening Sand/Gravel pit(Barrow pit).

**52** 4199 - Other Mixed Upland Deciduous Sapling Medium 129.5 13 Immature N/A Std harvested under contract 720220301 Horrible Hornet. Final harvested with six variable retention islands left (1/4-1/2 ac). 2008 age.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Sapling/Pole	2	13	Red Maple	Low	< 5 feet	Seeding
Red Oak	28	Sapling/Pole	2		Oak (spp.)	Low	< 5 feet	Seeding
Bigtooth Aspen	30	Sapling	2	13				
Red Pine	2	Sapling	3					
White Oak	5	Sapling	1					

**53** 4199 - Other Mixed Upland Deciduous Sapling Well 128.5 6 Immature N/A Harvested in fall of 2015 under 72-637-13-01. Four different retention islands left in the stand. Regen is a mix of oak, aspen and red maple.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Sapling	1	6
White Oak	25	Sapling	1	6
Bigtooth Aspen	30	Sapling	1	6
Northern Pin Oak	20	Sapling	1	6

**54** 4130 - Aspen Poletimber Well 32.7 37 1-50 N/A Aspen stand in transition from sapling to pole size class.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling/Pole	3		Red Maple	Low	Variable	Sapling
Bigtooth Aspen	70	Pole/Sapling	5	37	Aspen (spp.)	Low	Variable	Sapling
Northern Pin Oak	10	Sapling/Pole	3		Oak (spp.)	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
<b>55</b>	4130 - Aspen	Sapling Well	12.4	26	Immature	N/A	Narrow strip of Aspen regen mixed with Oak and Red maple regen along east side of Bald Hill rd.																																																							
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<b>56</b>	710 - Sand, Soil	Nonstocked	2.1		Immature	Managed Opening	Small sand/gravel pit(barrow pit). Illegal ATV hill climbing use																																																							
<b>57</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	8.1	15	Immature	N/A	Small stand of Red maple regen mixed with Aspen and some Oak stump sprouts. North west corner used as a landing for sale to the north. Final harvested in 2006 under contract 720220301 Horrible Hornet.																																																							
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<b>58</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	27.6	110	51-80	N/A	Mature mixed oak stand with a mix of oak, red maple and pine in sub canopy.																																																							
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<b>59</b>	4124 - Red with White Oak	Sawtimber Medium	5.2	108	51-80	N/A	Narrow strip of Oak and Red pine on east side of Bald Hill rd. Aspen/Oak/Red pine understory. South end of stand burnt in Stephan Bridge fire. Large Aspen removed from stand in a previous cut.																																																							
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<b>60</b>	42220 - Natural Jack Pine	Sapling Well	16.9	28	Immature	N/A	Jack pine regen following the Stephan Bridge fire. Stand is mixed with Oak and Aspen regen. Stand is located on north side of North Down and west of Bald Hill rd.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
<b>61</b>	4131 - Aspen, Oak	Sapling Well	24.1	33	Immature	N/A	Aspen stand, starting to transition into small pole class. More oak and maple to the East.																				
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<b>62</b>	122 - Road/Parking Lot	Nonstocked	3.1			No																					