



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72263

Entry Year 2022

Acreage: 1,780

County Crawford

Management Area: Camp Grayling

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**Revision Date:** 2020-04-07

**Stand Examiner:** Derek Nellis

**Legal Description:**

T27N, R02W Sections 1, 2 and 3, Grayling Township.

**Identified Planning Goals:**

To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversity and structural diversity throughout the compartment. To provide multiple-use of the land while also incorporating any visual management needed.

**Soil and topography:**

Soil types, within this compartment consist of Grayling sands, Roselawn sands and Rifle peat.

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

This compartment is solid state ownership. The entire area is under the 1935 long-term lease agreement L-1479 (Act 154 P.A. 1935) with the Michigan National Guard, Department of Military Affairs. The agreement provides for use by the military during their encampment, with no permanent buildings or improvements to be erected. Military needs take precedence over resource management needs on long-term lease lands. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs.

**Unique Natural Features:**

Hill's Thistle (*Cirsium, hillii*), a State Threatened species, can be seen in this compartment.

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

None recorded at this time.

**Special Management Designations or Considerations:**

Section 1 contains the south part of the Lovell's Fen, an ERA with a designated management plan.

**Watershed and Fisheries Considerations:**

None.

**Wildlife Habitat Considerations:**

To maintain current and preferred forest cover types for deer, bear, turkey, squirrel and grouse.

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

SN0 known potential exists for commercial metallic mineral production in this part of the state. The state-owned Bald Hill Clay Pit (DNR Pit No. 604) is just southeast of the compartment and is currently leased to the County Road Commission. Little information exists on the surficial sediments within the compartment, but sand & gravel potential is generally very good in this area. The compartment is south of the Antrim Shale gas play and north of the general region of central basin hydrocarbon reservoirs. There is no known hydrocarbon potential from other formations beneath the compartment, no test wells have been drilled in the area, and there is no current mineral leasing activity in the vicinity. Oil & gas potential in the compartment is considered low at this time. There are some leasing and development restrictions in the compartment related to Camp Grayling. The western two-thirds of the compartment is within DMVA's Camp Grayling managed area, where state-owned mineral rights are classified as non-leasable.

**Vehicle Access:**

This compartment is accessed from Wakely Bridge Road, a county road. Several two tracks branch off this road and wind throughout the compartment. Bald Hill Road, a county road, also provides a point of access to this compartment. All newly created roads within the compartment due to timber harvesting must be blocked following their completion.

**Survey Needs:**

None

**Recreational Facilities and Opportunities:**

There are no designated trail or facilities within the compartment. The area is utilized for large and small game hunting, berry picking, and dispersed recreation when not in use by the military for training exercises.

**Fire Protection:**

Fire protection is the responsibility of the Michigan DNR and the Grayling and Lovell's Volunteer Fire Department. Current roads and two tracks are adequate for fire suppression equipment access and the closest water source is Duck Lake and KP Lake.

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

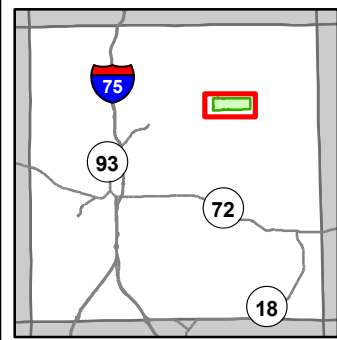
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

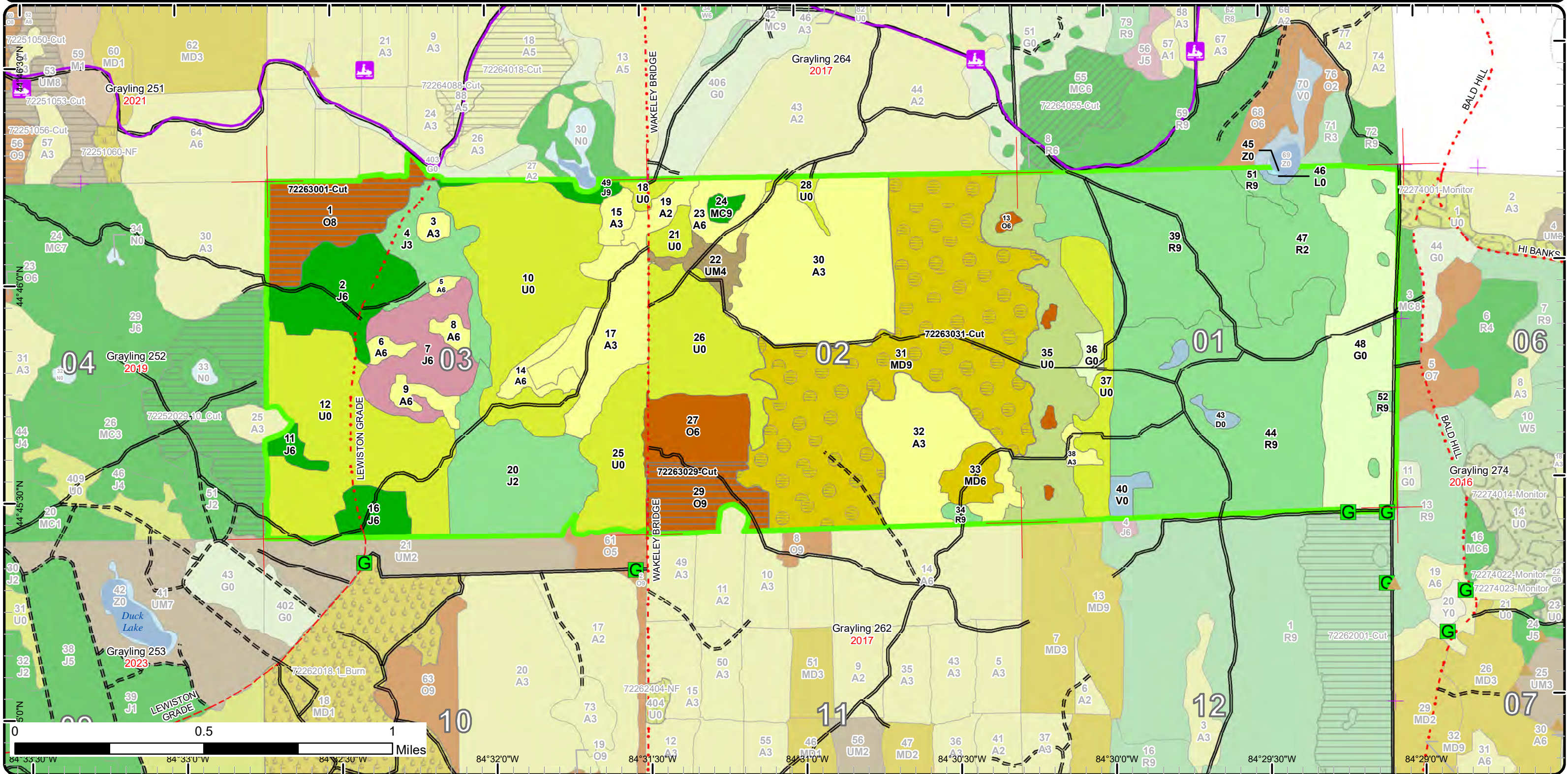
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 263  
 T27N, R02W, Sec. 1-3  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2022  
 Acres: 1779.7 GIS Calculated  
 Examiner: Derek Nellis  
 Map Revised: 5/27/2021  
 Map Phase: Post-Review

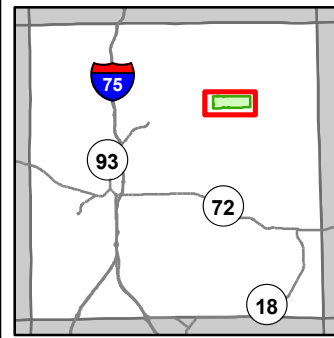


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Patch/Strip Cut (Femelschlag)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

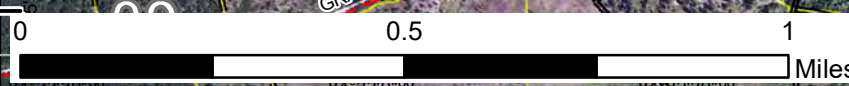
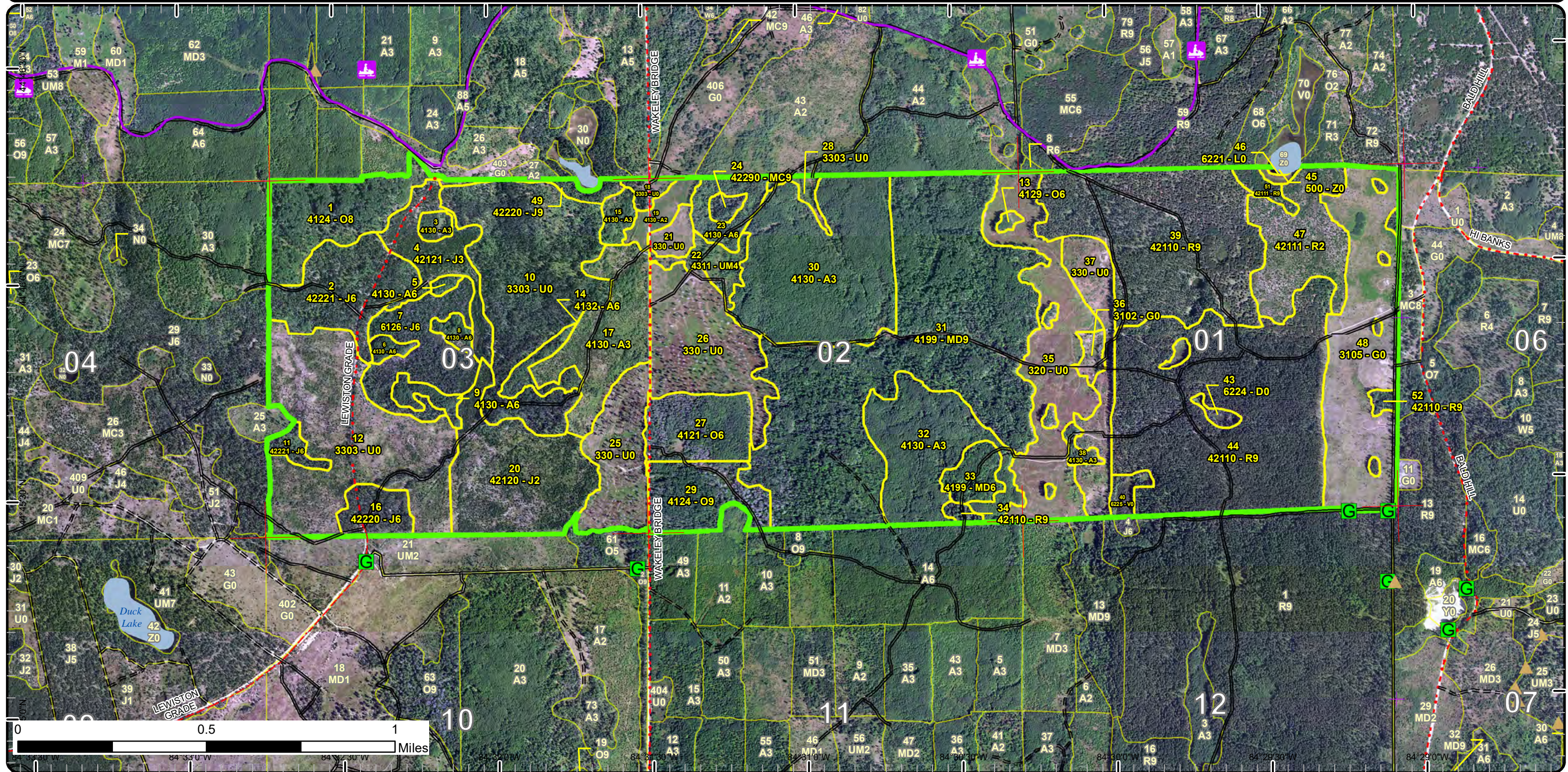


# Stand Boundary Map

Compartment: 263  
 T27N, R02W, Sec. 1-3  
 County: Crawford  
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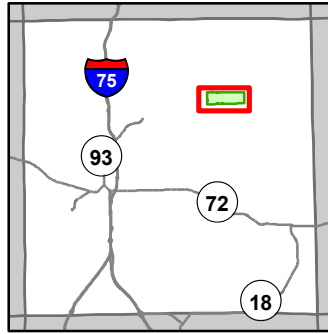
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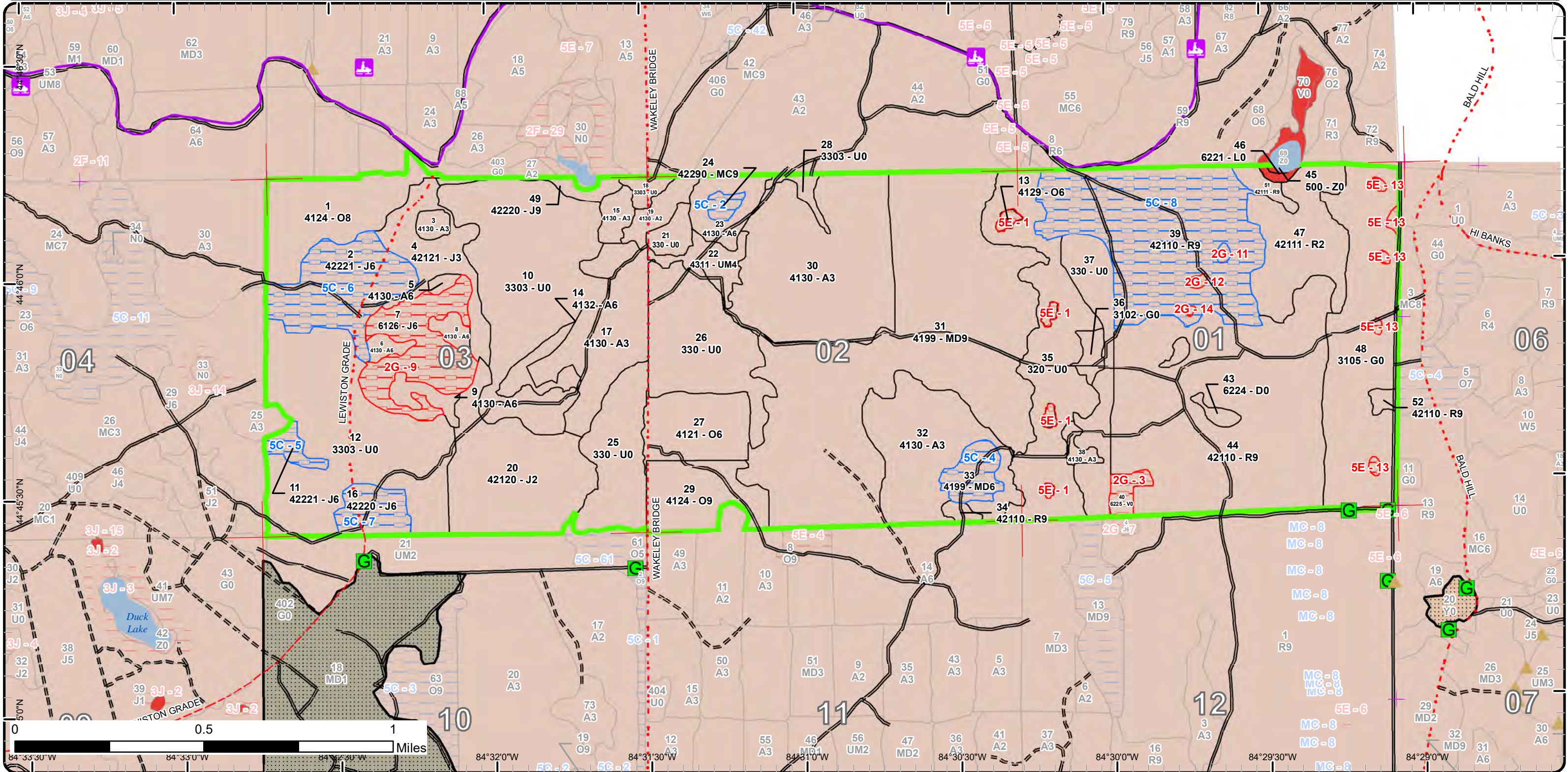
84°33'0"W 84°32'0"W 84°31'0"W 84°30'0"W 84°29'0"W

# Special Conservation Areas

Compartment: 263  
 T27N R02W 1-3  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2022  
 Acres: 1779.7 GIS Calculated  
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- Miris Corners
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- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- Gate
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Research, Development, and Military Lands
- Sand or Gravel Pit
- Habitat Corridor



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	10	55	79	134	0	0	0	0	0	0	0	0	0	0	0	0	0	278
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Herbaceous Openland	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Jack Pine	0	0	0	99	0	0	0	0	51	61	0	0	0	0	0	0	0	0	211
Low-Density Trees	364	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	234	12	0	0	0	0	0	0	0	246
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Oak	0	0	0	0	32	0	0	0	32	46	4	0	0	0	0	0	0	0	114
Red Pine	0	0	0	47	0	0	0	0	6	301	5	0	0	0	0	0	0	0	359
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Shrub	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Total</b>	<b>556</b>	<b>10</b>	<b>55</b>	<b>225</b>	<b>178</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>89</b>	<b>646</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1780</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 263

Total Compartment Acres: 1,780

Commercial Harvest - 312  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Mixed Upland Deciduous	0	0	234	0	0	0	0	0	0	234
Oak	79	0	0	0	0	0	0	0	0	79
<b>Total</b>	<b>79</b>	<b>0</b>	<b>234</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>312</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	312	0	0	0	0	0	0	0	0	312
Next Step	0	0	0	0	0	0	312	0	0	312
<b>Total</b>	<b>312</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>312</b>	<b>0</b>	<b>0</b>	<b>624</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>1</b>	<b>72263001-Cut</b>	46.1	4124 - Red with White Oak	Sawtimber Medium	81	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all trees &gt;1"DBH. Standard retention focused on protecting aspen clones and white oak. Add oak wilt, military, rec trail (short section of Lewiston grade crosses northeast finger), and grouse 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 deciduous to include red maple, aspen, and a minimum of 20% oak</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>29</b>	<b>72263029-Cut</b>	32.4	4124 - Red with White Oak	Sawtimber Well	72	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all trees greater than 2 inches DBH. Follow standard retention guidelines. Include military and oak wilt 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> Sufficiently stocked forested stand of oak, maple, and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>31</b>	<b>72263031-Cut</b>	233.7	4199 - Other Mixed Upland Deciduous	Sawtimber Well	80	51-80	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4121 - Oak, Aspen	Two-Aged	No
<p><u>Prescription</u> Patch selection of approximately 115 acres total (1/2 stand acreage) in patches greater than 20 acres. Focus harvest patches on over mature aspen and declining oak. Harvest all trees &gt;2" DBH. Add military, oak wilt, and grouse 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> Oak, aspen, and red maple. &gt;20%Oak component.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand had patches of aspen harvested in 2004. These areas have 2-4" aspen regeneration. The 10 BA of oak in these patches has survived.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

**Total Treatment Acreage Proposed: 312.2**



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 263  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	5E
		With Condition	Not Available				
278	278	0	0	Aspen	0	0	
6	0	0	6	Bog		6	
100	100	0	0	Herbaceous Openland	0		
211	106	66	40	Jack Pine	66	40	
364	364	0	0	Low-Density Trees	0	0	
2	2	0	0	Lowland Shrub			
246	234	12	0	Mixed Upland Deciduous	12		
4	0	4	0	Natural Mixed Pines	4		
114	110	0	4	Oak	0		4
360	237	117	6	Red Pine	117	2	4
5	5	0	0	Treed Bog			
12	12	0	0	Upland Mixed Forest			
78	77	0	0	Upland Shrub			0
1	1	0	0	Water			
1,780	1,525	199	56	Total Forested Acres	199	47	8
	86%	11%	3%	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	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 263  
Year of Entry: 2022

3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 263  
Year of Entry: 2022

8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	117	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

Conservation Area	Type	Description
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
1	4124 - Red with White Oak	Sawtimber Medium	46.1	81	81-110	N/A	Aspen regeneration in harvested patches is 15-20' tall. Some red maple stump sprouts.																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>60</td> <td>Log/Pole</td> <td>10</td> <td>81</td> </tr> <tr> <td>White Oak</td> <td>40</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	60	Log/Pole	10	81	White Oak	40	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Oak (spp.)</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	5 - 10 feet	Sapling	Black Cherry	Low	< 5 feet	Sapling	Aspen (spp.)	High	5 - 10 feet	Sapling	Oak (spp.)	Low	< 5 feet	Sapling	Stand was harvested in 2005. All Aspen was removed and the Oak was left. Heavy understory of aspen with some red maple and oak regen. Two track trail traverses to the south end of stand. Stand is under long term military lease.					
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2	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	45.2	72	Unspecified	N/A	Hawthorn, service berry, and oak in the natural openings. Jack pine stand with small pocket of Quaking aspen scattered throughout the stand. Stand also has small openings scattered throughout it and a medium stocking of Jack pine saplings. There is a low stocking of Oak saplings also and several two track trails traversing through it. Stand is under military lease.																																					
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3	4130 - Aspen	Sapling Well	3.9	25	Immature	N/A	New stand added. Immature Quaking aspen stand with a mix of immature Jack pine in a small hole. Stand was last harvested in 1996 with surrounding stand. Surrounding stand planted to Jack pine and this stand may have been planted too. (1997) Military leased lands.																																					
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4	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	29.9	24	Immature	N/A	Immature Jack pine plantation with mixed deciduous trees scattered throughout stand. Planted in 1997. Stand is under long term military lease.																																					
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5	4130 - Aspen	Poletimber Well	1.9	30	Immature	N/A	Aspen sapling/pole mixed with trace amounts of Jack pine and oak. A small stand of immature aspen on the edge of a lowland jack pine stand. Stand is approaching small pole size. Stand is under long term military lease.																																					
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6	4130 - Aspen	Poletimber Well	3.6	29	81-110	N/A	Aspen pole stand on low ridge protruding into a low ground stand of spruce and Jack pine. A trace component of oak sapling was observed.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
7	6126 - Lowland Jack Pine	Poletimber Well	39.7	87	1-50	N/A	Estimated 50-60% jack pine overstory mortality. Portions of the stand are converting to a spruce mix. Large lowland Jack pine stand with some small aspen pockets scattered throughout it. Spagnum moss and leatherleaf for ground cover. Lots of standing dead Jack pine snags. If harvesting stand, stand has a high potential for rutting in winter or dry summer. Stand is under long term military lease.																																																																			
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8	4130 - Aspen	Poletimber Well	4.4	29	51-80	N/A	Aspen knoll with a perimeter of oak and Jack pine. This stand is adjacent to a lowland stand with non-forested patches to the west. Stand of immature Aspen and Oak that jets out into a lowland stand of Jack Pine. Stand is under long term military lease.																																																																			
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10	3303 - Mixed Low Density Trees	Nonstocked	105.8	0	Unspecified	4319 - Mixed Upland Forest	Quality aspen response to harvest. Still relativeley open with rolling terrain.  Stand was harvested in winter of 2016 into 2017, under contract 72-612-12-01 N Wakely Jack Aspen. Boundary retention and island retention were left, 3 islands were left in body of sale but no shapefiles were found to delineated them. They will be included with stand 49 which was part of this stand and left as boundary retention.  Large stand of Jack Pine mixed with Aspen pockets and scattered Oak. Stand is under long term military lease.																																																																			
11	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	5.9	72	51-80	N/A	Over mature Jack pine log with some density dependent mortality. trace amounts of oak and pine regeneration. Pine/Aspen stand. A portion of this stand has been set up with a sale from compartment 257. Stand is under long term military lease.																																																																			
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12	3303 - Mixed Low Density Trees	Nonstocked	113.3			No	Jack pine is 5-10 feet. This stand is close to having canopy closure greater than 25%. Rolling topography with some deep kettles. Large stand that was harvested in the last entry year. Scattered natural regeneration of Jack Pine, Oak and Aspen. Most of the regeneration is under 3 feet tall and is patchy throughout the stand. Two track trails traverse through the stand and a strip of Jack Pine (uncut timber) was left along both side of two track. Stand is under long term military lease.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Cherry (spp.)	Low		Sapling	
								Jack Pine	Medium		Sapling	
								Mixes Sedges/Grasses	High		Non-Wood	
Northern Pin Oak	Low		Sapling									
13	4129 - Mixed Oak	Poletimber Well	4.3	99	81-110	N/A	Based on field estimate approximately 30-50% overstory mortality. Stand was left as retention from timber sale # 72-637-12-01.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	29	Log/Pole	10	99
								White Oak	28	Log/Pole	10	
								Red Maple	19	Pole/Sap/Log	8	
								Bigtooth Aspen	10	Log/Pole	12	
								Northern Pin Oak	8	Pole/Log	9	
								Red Pine	3	Log/Pole	10	
								White Pine	3	Pole	8	
								Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	Low	Variable	Sapling									
Witch Hazel	Low	< 5 feet	Tall Shrub									
Oak (spp.)	Low	Variable	Sapling									
14	4132 - Aspen, Jack Pine	Poletimber Well	9.0	38	Unspecified	N/A	Pole sized aspen with Jack and red pine log around the perimeter. New stand added. Immature Aspen stand. Stand reaching just into pole size. Stand is under long term military lease.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	70	Pole/Sapling	6	38
								Jack Pine	30	Pole/Log	8	
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Jack Pine	Low	< 5 feet	Seeding									
Cherry (spp.)	Low	Variable	Sapling									
Oak (spp.)	Low	Variable	Sapling									
15	4130 - Aspen	Sapling Well	6.9	16	Immature	N/A	Aspen seems vigorous and healthy. Immature Aspen stand mixed with a small amount of Jack regen. Stand is located in a kettle hole. Stand is under long term military lease.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	96	Sapling	2	16
								Jack Pine	4	Sapling	2	
								Sub-Canopy Species	Density	Avg. Height	Size	
Quaking Aspen	Low	Variable	Seeding									
Jack Pine	Low	Variable	Seeding									
Cherry (spp.)	Low	Variable	Seeding									
16	42220 - Natural Jack Pine	Poletimber Well	15.0	84	81-110	N/A	Some overstory mortality with Jack pine seedling/saplings filling in. Jack Pine stand mixed with some Aspen and Oak. Several two track trails traverse through the stand. Stand is under long term military lease. All surrounding stands have been harvested in the last 5 - 10 years.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	10	Pole/Sapling	7	
								Jack Pine	90	Pole/Log/Sap	9	84
Sub-Canopy Species	Density	Avg. Height	Size									
Oak (spp.)	Low	5 - 10 feet	Sapling									
Jack Pine	Low	5 - 10 feet	Sapling									
17	4130 - Aspen	Sapling Well	48.3	16	Immature	N/A	Aspen regeneration is 10-20' on average with oak and Jack pine saplings scattered throughout. Areas of lower density trees are dominated by cherry brush and bracken fern. The aspen in the southern part of the stand is lower quality and less vigorous. New stand added. Immature Aspen stand with scattered Oak and Jack Pine seedlings and saplings. Aspen is 4 - 6 foot saplings. Stand harvested last entry year. West side of stand borders Wakely Bridge Rd. Two track trail traverses north/south across a portion of the stand. Stand is under long term military lease.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	78	Sapling	1	16
								Northern Pin Oak	3	Sapling	1	
								Jack Pine	5	Sapling	1	
								Black Cherry	14	Sapling	1	
Sub-Canopy Species	Density	Avg. Height	Size									
Jack Pine	Low	< 5 feet	Seeding									
Cherry (spp.)	Low	< 5 feet	Seeding									
Black/Red (Hybrid) Oak	Low	< 5 feet	Seeding									





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
18	3303 - Mixed Low Density Trees	Nonstocked	4.6		Immature	No	Hawthorn and service berry present with traces of big blue stem and other remnent prairie plants. Open grassy field with scattered shrubs and trees throughout the stand. Part of a more open grassy field to the north in Compartment 264. Stand is located on both sides of Wakely Bridge Rd. Jack Pine/Aspen encroaching into the stand. Stand is under long term military lease.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Mixes Sedges/Grasses	High		Non-Wood	
								Jack Pine	Low		Sapling	
								Cherry (spp.)	Trace		Tall Shrub	
								Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub	
								Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling	
Big Bluestem	Trace	Unspecified	Non-Wood									
19	4130 - Aspen	Sapling Medium	9.6	7	Immature	N/A	Prolific aspen regeneration with scattered oak and black cherry. Aspen are 10-15' tall.  Stand was harvested in 2014 under contract number 72-608-12-01					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	90	Sapling	1	7
								Black/Red (Hybrid) Oak	7	Sapling	1	7
								Black Cherry	3	Sapling	1	7
20	42120 - Planted Jack Pine	Sapling Medium	69.3	24	Immature	N/A	Variable density Jack pine sapling/pole. Openings are dominated by cherry brush and bracken fern. New stand added. Stand planted in 1997 to Jack pine and possibly a mixture of Red Pine. Stand has scattered Red pine in rows as well as the Jack Pine. Stand is under long term military lease.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern Pin Oak	3	Sapling	2	
								Red Pine	12	Sapling	2	
								Jack Pine	75	Sapling	2	24
								Black Cherry	10	Sapling	2	
								Sub-Canopy Species	Density	Avg. Height	Size	
Black Cherry	Low	Variable	Seeding									
Oak (spp.)	Low	Variable	Seeding									
21	330 - Low-Density Trees	Nonstocked	7.1	0	Immature	Managed Opening	Scattered aspen, oak, and cherry. No evidence of Jack pine regeneration.  Stand of matuer Jack pine with some grassy patches scattered throughout it. West side of stand borders Wakely Bridge Rd. Stand is under long term military lease.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Quaking Aspen	Medium	5 - 10 feet	Sapling	
								Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling	
								Black Cherry	Low	5 - 10 feet	Sapling	
22	4311 - Pine, Aspen Mix	Poletimber Poor	11.9	36	1-50	N/A	Scattered aspen, red, pine, jack pine with grass. Some hawthorn. Stand is under long term military lease.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	50	Pole	6	36
								Jack Pine	30	Pole/Sapling	5	
								Red Pine	20	Log/Pole	10	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Trace		Sapling	
								Northern Pin Oak	Trace		Sapling	
								Hawthorn (spp.)	Low		Tall Shrub	
								Quaking Aspen	High		Pole	
								Red Pine	Trace		Sapling	
Cherry (spp.)	Low		Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>23</b>	4130 - Aspen	Poletimber Well	15.1	37	51-80	N/A	Aspen pole stand of average quality. Secondary forest road traverses the stand. Immature Aspen stand mixed with some scattered Red Pine and Jack Pine. Stand is under long term military lease.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		82	Pole/Sapling	6	37	Density		Avg. Height
Northern Pin Oak		3	Pole	8				Size
Red Pine		12	Log	14				
Jack Pine		3	Pole	7				
Quaking Aspen						Medium	Variable	
Red Pine						Low	Variable	
Hawthorn (spp.)						Low	< 5 feet	
Oak (spp.)						Low	Variable	
							Sapling	
							Sapling	
							Tall Shrub	
							Sapling	
<b>24</b>	42290 - Natural Mixed Pine	Sawtimber Well	3.6	82	81-110	N/A	log size red pine are short relative to their diameter with large healthy crowns. Small stand of Red Pine and some Jack Pine surrounded by Aspen. Stand is under long term 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 Pine		52	Log	14	82	Density		Avg. Height
Jack Pine		48	Pole/Sapling	7				Size
Red Pine						Low	Variable	
Jack Pine						Low	Variable	
Oak (spp.)						Low	< 5 feet	
							Sapling	
							Sapling	
							Sapling	
<b>25</b>	330 - Low-Density Trees	Nonstocked	38.5		Immature	No	Oak over story retention is mostly standing dead. Red maple and oak dominate the regeneration. Red pine retention looks good with trace amounts of red pine regeneration beginning to appear.  Stand was harvested in 2014 under contract 72-608-12-01.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Black/Red (Hybrid) Oak		High	< 5 feet	Sapling				
Red Pine		Low	>20 feet	Log				
White Oak		Trace	>20 feet	Log				
<b>26</b>	330 - Low-Density Trees	Nonstocked	57.0	0	Immature	No	The majority of the oak over story retention is standing dead. Oak, black cherry, and red maple are well represented in the regeneration with trace amounts of red and jack pine.  Stand was harvested in 2014 under contract # 72-608-12-01.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Black/Red (Hybrid) Oak		Low	>20 feet	Log				
Red Pine		Low	>20 feet	Log				
<b>27</b>	4121 - Oak, Aspen	Poletimber Well	31.6	37	1-50	N/A	Significant oak mortality. Stand contains some Jack and red pine. Immature Oak stand mixed with Aspen. Valley of Quaking Aspen running north/south through stand and a grassy opening (old landing). West side of stand borders Wakely Bridge rd. Two track trail traverses through south end of stand east/west. Stand is under long term 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		3	Pole/Sapling	5		Density		Avg. Height
Red Oak		60	Pole/Sapling	5	37			Size
Quaking Aspen		31	Pole/Sapling	5				
Red Pine		3	Pole/Log	9				
Jack Pine		3	Pole/Sapling	5				
Quaking Aspen						Low	5 - 10 feet	
Hawthorn (spp.)						Low	< 5 feet	
Oak (spp.)						Low	5 - 10 feet	
							Sapling	
							Sapling	
							Tall Shrub	
							Sapling	
<b>28</b>	3303 - Mixed Low Density Trees	Nonstocked	4.2			No	Small valley frost pocket protruding into stand 30. Contains scattered aspen, oak, cherry, and Jack pine of poor quality and vigor.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Hawthorn (spp.)		Trace		Tall Shrub				
Cherry (spp.)		Low		Sapling				
Quaking Aspen		Low		Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
<b>29</b>	4124 - Red with White Oak	Sawtimber Well	32.4	72	51-80	N/A	Stand was harvested in the fall of 2003. All Aspen was treated. Stand is under long term military lease. West side of stand borders Wakely Bridge Road. Red maple and Aspen regenerating in understory.																																																												
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<b>30</b>	4130 - Aspen	Sapling Well	104.7	37	51-80	N/A	Heavier to pole size oak in the south with nearly pure aspen to the north. stand contains a trace amount of white pine. Large Aspen stand just reaching into pole size. Some Oak, Red maple and cherry mixed within stand. Stand is under long term military lease. A couple of two track roads traverse through the stand.																																																												
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<b>31</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	233.7	80	51-80	N/A	A large stand of Oak/Aspen mixed with some Red Maple scattered throughout. Stand was previously harvested in 2004 leaving scattered patches of mature timber and approximately 10 BA of Oak within the area that was harvested. Dense immature aspen mixed with some red maple and oak in areas previously harvested (Understory). Two track trails traverse through the middle and south end of stand. Stand is under long term military lease.																																																												
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<b>32</b>	4130 - Aspen	Sapling Well	59.8	29	1-50	N/A	Immature Aspen stand with a small component of Red maple. Stand is reaching young pole size. Stand is under long term military lease.																																																												
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<b>33</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	12.3	99	111-140	N/A	Poor quality northern hardwoods with northern red oak and a trace of red and white pine. Oak stand mixed with Aspen and other deciduous species. Could be classified as a northern hardwood stand. Stand as some sugar maple in it as well as red maple. Two track trail traverse through the middle of the stand. Stand is under long term military lease. Paper birch has died out of stand.																																																												
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<b>34</b>	42110 - Planted Red Pine	Sawtimber Well	2.6	82	111-140	N/A	Some natural red pine regeneration has experienced die back. Red pine regeneration in larger canopy gaps looks healthy. Small stand of planted open grown Red pine with some Jack pine mixed in. Red pine very limby and some deformity. Some natural Red pine regeneration occurring in and around stands edge. Some Oak/Red maple in understory. Two track traverses through stand. Stand is under long term military lease.																																						
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<b>35</b>	320 - Upland Shrub	Nonstocked	77.7	0	Immature	No	Regeneration consists primarily of stump sprout red maple and oak with some aspen sprouts and cherry.  Stand harvested in 2013/14 under contract # 72-637-12-01.																																						
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<b>36</b>	3102 - Grass	Nonstocked	5.1			No	Stand is open grass with sparse trees sloping down to a wet bowl. Wet area vegetation consists of nut sedge, leather leaf, and willow. A secondary forest road bisects the stand on high ground.  Stand is an upland grassy opening on rolling terrain with patches of cherry scattered throughout it. A couple of Oak seedling/saplings, patches of blueberry and one clump of Oak pulpwood exists in the stand. Poor quality Quaking aspen incroaching into stand. Stand is under long term military lease.																																						
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<b>37</b>	330 - Low-Density Trees	Nonstocked	33.6	0		No	The stand is stocked with stump sprout and single stem mixed oak. some scattered jack pine interior and red pine saplings along the eastern edge. Stand harvested in 2013/14 under contract #72-637-12-01.																																						
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<b>38</b>	4130 - Aspen	Sapling Well	3.6	39		N/A	Small stand of immature Aspen. Rolling terrain. Harvested last entry year. Two track trail traverses through the stand. Stand is under long term military lease.																																						
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<b>39</b>	42110 - Planted Red Pine	Sawtimber Well	119.0	82	81-110	N/A	This stand contains three small low ground areas in the southeast part of the stand.																																								
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<b>40</b>	6225 - Bog	Nonstocked	5.7	0		No	Standing water throughout this stand has killed the overstory resulting in a conversion from a forested to non-forested stand. Multiple snags still standing.  Treed bog (Jack & Red pine). Lots of dead standing snags. Leatherleaf and mosses for ground cover. Stand is surrounded by Jack & Red pine saw and pole timber. Stand under long term military lease.																																								
<b>43</b>	6224 - Treed Bog	Nonstocked	4.8		Unspecified	No	Above average precipitation this year (2019) may have contributed to an increase in the area of this stand that is open water. Marshy Treed Bog. Kettle hole with marsh grasses, leatherleaf and scattered Jack Pine sapling and tall Willow shrub. Stand surrounded by a Red Pine plantation that was thinned with an exception of a buffer of uncut Red Pine/Jack Pine around it. Stand is under long term military lease.																																								
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<b>44</b>	42110 - Planted Red Pine	Sawtimber Well	179.4	82	81-110	N/A	BA of 106 based off of 6 plots. understory consists of hybrid oak, red pine, white oak and a trace of white pine. Rolling terrain with good access throughout. A large Red pine plantation row thinned last entry year(winter 2003/summer 2004). Several two track trails traverse throughout the stand. Stand is under long term military lease.																																								
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<b>45</b>	500 - Water	Nonstocked	0.8		Immature	No	Open water. Stand continues into Compartment 264 to the north. Stand is surrounded by bog. Stand is under long term military lease. Stand is part of an ERA (Lovell's Fen).																																								
<b>46</b>	6221 - Fen	Nonstocked	1.7			No	Stand is part of a large bog that continues into Compartment 264 to the north. Stand surround stand of water. Stand is also considerable lower in elevation than most of the surrounding terrain. Stand is under long term military lease. Sphagnum mosses, leather leaf and a few scattered Jack Pine and Tamerack. Stand is part of an ERA (Lovell's Fen)																																								



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47	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	46.9	21	1-50	N/A	Planted red pine and pin oak dominated stand. Low density white oak throughout. Some areas of the stand are approaching 100% canopy closure. Open patches are dominated by sedge, sweetfern, and blueberry. Stand swapped from Non-Forested to Forested. Stand was part of forest fire in July 1998, salvaged in 1999 and planted in Spring of 2000. Anywhere from 3-6 ft seeding/saplings of Red pine, Jack pine, Oak, Red maple and Cherry.																																														
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48	3105 - Mixed Upland Herbaceous	Nonstocked	95.1		Immature	No	The stand is dominated by hybrid oak and sedge with trace amounts of jack pine saplings, redpine seedlings and red pine poles. a single 1 acre clump of trembling Aspen occurs in the northwest part of the stand.																																														
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49	42220 - Natural Jack Pine	Sawtimber Well	6.5	84	51-80	N/A	This stand is adjacent to a fen and offers an additional buffer. There is a steep ridge on the southwest perimeter. Boundary retention left form timber sale 72-612-12-01, there should be other islands left in the sale but no shapefiles to use to delineate.																																														
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Oak (spp.)	Medium	Variable	Sapling																																																		
51	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	5.3	92	81-110	N/A	Over story red pine log mixed with jack pine, oak, and red maple. This stand is a ridge that slopes down to a bog. Area left from harvest # 72-638-12-01.																																														
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>62</td> <td>Log</td> <td>14</td> <td>92</td> </tr> <tr> <td>Jack Pine</td> <td>13</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>10</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	62	Log	14	92	Jack Pine	13	Pole	8		Quaking Aspen	10	Pole	8		Black/Red (Hybrid) Oak	10	Log	13		Red Maple	5	Pole	5																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>52</b>	42110 - Planted Red Pine	Sawtimber Well	6.3	72	81-110	N/A	Red pine seedlings establishing in and around the stand. This stand consists of six patches within stand 48.Red Pine plantation. Thinned last entry year. Scheduled for treatment before this entry year under the Red Pine Project.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>		<b>DBH</b>	<b>Age</b>		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		100	Log/Pole		12	72		Red Pine	Medium	< 5 feet	Seeding
Jack Pine								Jack Pine	Low	< 5 feet	Seeding
Oak (spp.)								Oak (spp.)	Low	< 5 feet	Sapling
White Spruce								White Spruce	Trace	5 - 10 feet	Sapling
Balsam Fir								Balsam Fir	Trace	5 - 10 feet	Sapling