



# Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72276

Entry Year 2023

Acreage: 917

County Crawford

Management Area: Kirtland's Warbler

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

**Stand Examiner:** Kevin Ehlert

**Legal Description:**

Crawford County, Lovells Township, T27N R01W Section 17 and 18

**Identified Planning Goals:**

This compartment is under the long-term lease agreement with the Michigan National Guard. Thus the primary objective for this compartment is to allow for military training. Another major objective is to maintain a healthy habitat for the endangered species *Dendroica kirtlandii* (Kirtland's warbler), taking into account species diversity and visual management. In May 1986 the Michigan Department of Natural Resources and the Michigan Department of Military Affairs held a meeting in an effort to find ways to support the recovery of the Kirtland's warbler while maintaining necessary training opportunities. A cooperative agreement was signed and adopted which will discourage new regeneration of jack pine where there is potential for warbler use on all lands inside the Tank Range west of Bald Hill Road. Since all but 12 acres of compartment 286 is east of Bald Hill Road this agreement should not effect the establishment of Kirtland Warbler habitat as proposed in the management guide.

**Soil and topography:**

Mostly Grayling sand in the north and west portion. Throughout the rest of the compartment, there is a mix of Graycalm, Roselawn sands, and Wakeley soils. The terrain is flat with a few gently rolling hills.

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

The entire compartment is contiguous state ownership except the E1/2 NE1/4 and the NE1/4 SE1/4 of section 17 is privately owned. This area is under the 1935 long-term lease agreement (Act 154 P. A. 1935) with the Michigan National Guard, Michigan 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.

**Unique Natural Features:**

Kirtland's Warbler Habitat.

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

None.

**Special Management Designations or Considerations:**

A cooperative agreement with the military for the management of the Kirtland's Warbler.

**Watershed and Fisheries Considerations:**

There are not waterways located directly in the compartment. The North Branch of the Au Sable River runs through the adjacent section to the east in compartment 285.

**Wildlife Habitat Considerations:**

Refer to the Kirtland's Warbler management plan. Snowshoe hare habitat should also be considered as a management objective if it does not interfere with the Kirtland Warbler management plan.

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

**Vehicle Access:**

Access is obtained from the county roads of Bald Hill Road and High Banks Road. The compartment also contains numerous trail roads. All new roads created through the management plan are to be closed.

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

Dispersed recreational opportunities including rabbit hunting occurs throughout the compartment.

**Fire Protection:**

Current road system is adequate, and no nearby water source

**Additional Compartment Information:**

The following reports from the Inventory are attached:

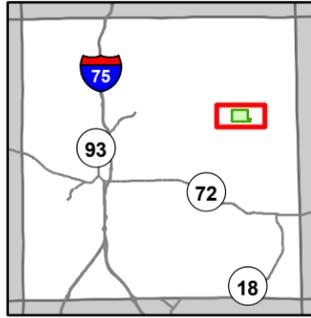
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

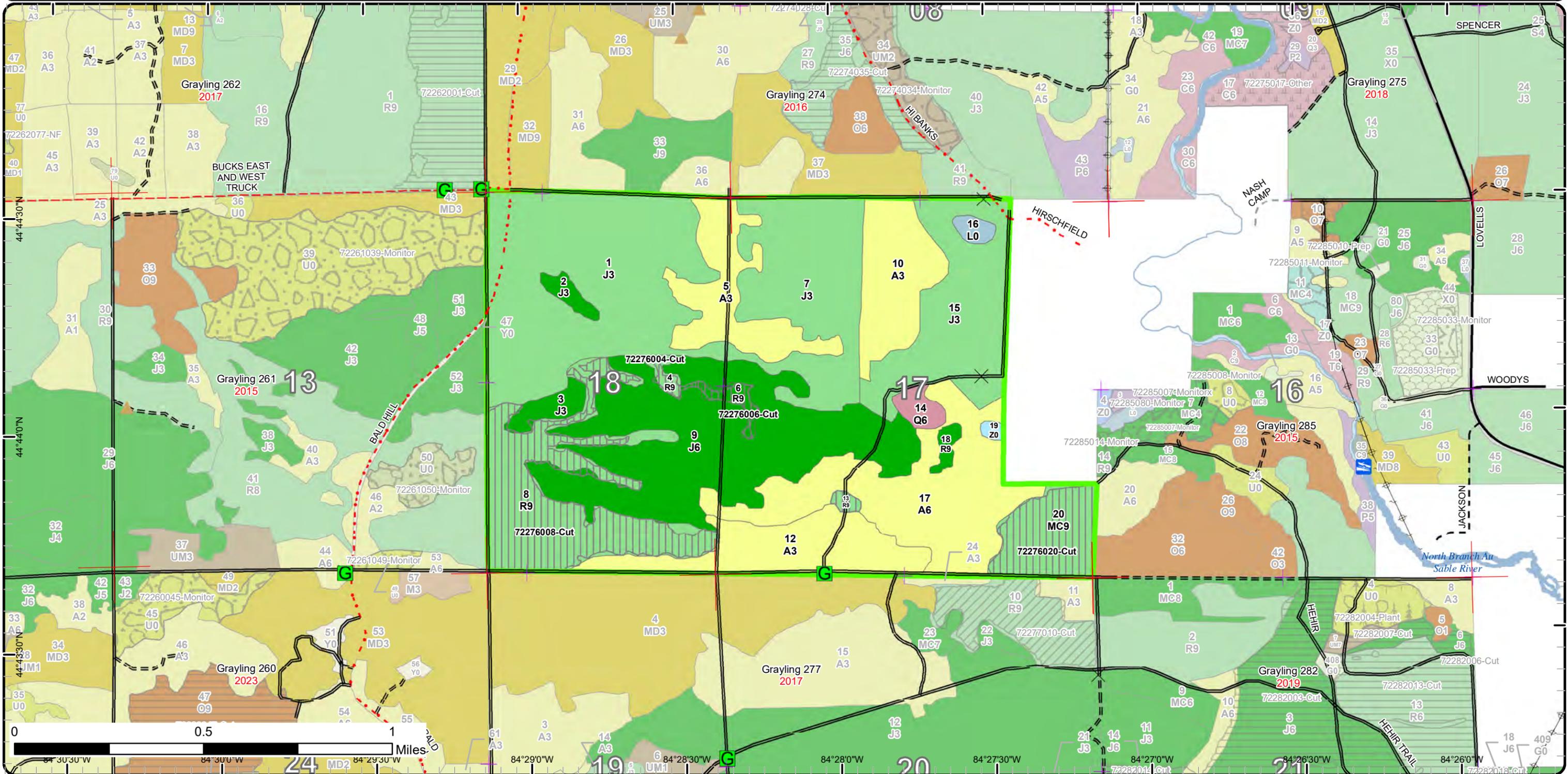
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 276  
 T27N R01W 17-18  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2023  
 Acres: 917.4 GIS Calculated  
 Examiner: Kevin Ehler  
 Map Revised: 3/26/2021  
 Map Phase: Pre-Review



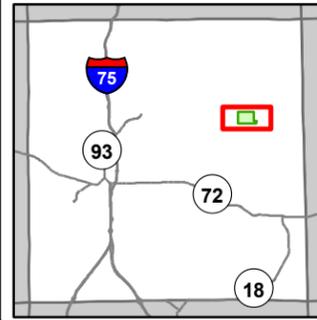
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Berms
- G Gate
- B Boating Access Site
- Island in Lake or River
- Perennial River
- Lakes and Rivers
- ⊕ Powerline
- Compartment Boundary
- Shelter Wood (w/Reserves)
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- X Camp Grayling Gates



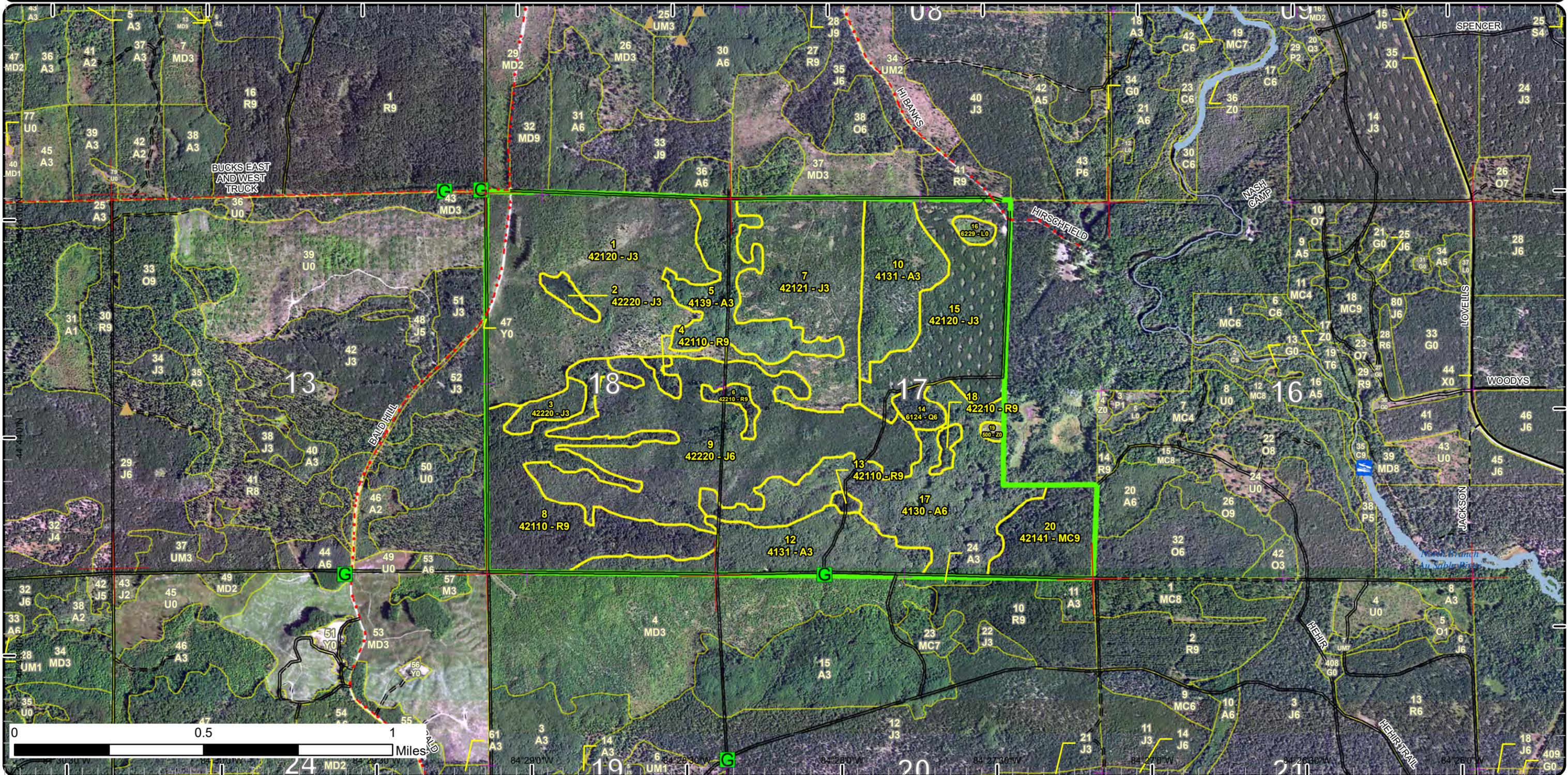
0 0.5 1 Miles

# Stand Boundary Map

Compartment: 276  
 T27N R01W 17-18  
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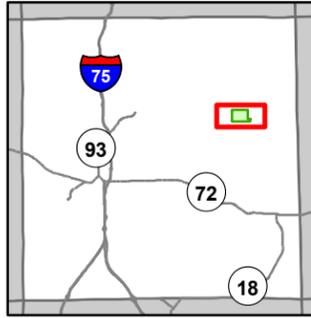


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- + Remonumented Section Corners
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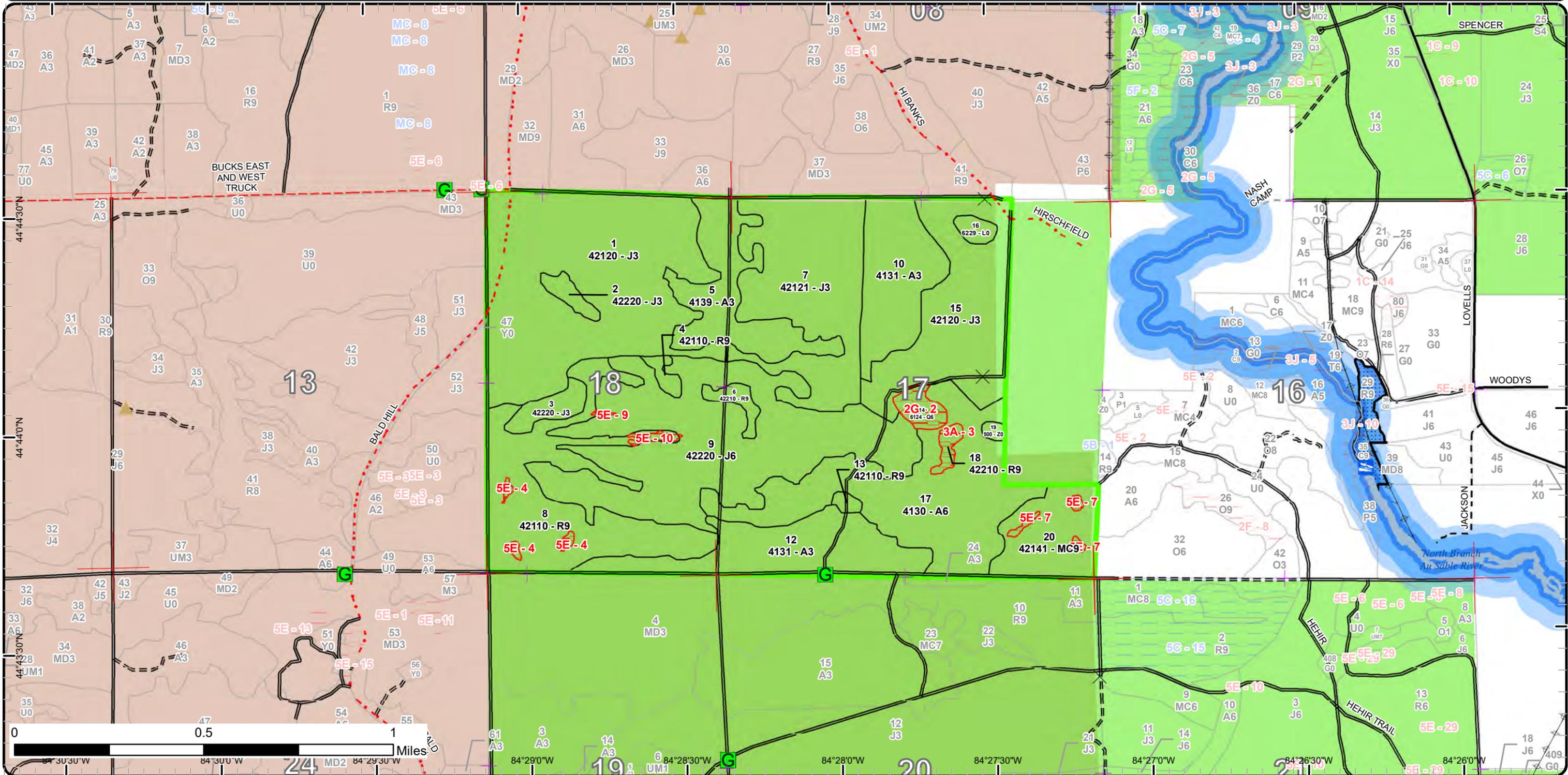


# Special Conservation Areas

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- B Boating Access Site
- Island in Lake or River
- Perennial River
- Lakes and Rivers
- ⊕ Powerline
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- Boat Access Site
- 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	0	0	47	209	0	0	0	0	0	0	0	0	0	0	0	0	0	256
Jack Pine	0	0	255	80	172	0	0	0	0	0	0	0	0	0	0	0	0	0	506
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Planted Mixed Pines	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	36
Red Pine	0	0	0	0	0	0	0	0	100	2	0	4	0	0	0	0	0	0	106
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>6</b>	<b>0</b>	<b>255</b>	<b>127</b>	<b>381</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>136</b>	<b>2</b>	<b>7</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>917</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 276

Total Compartment Acres: 917

Commercial Harvest - 125  
 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
Planted Mixed Pines	0	0	0	0	34	0	0	0	0	34
Red Pine	0	0	0	0	91	0	0	0	0	91
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	125	0	0	0	0	0	0	0	0	125
<b>Total</b>	<b>125</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125</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>4</b>	<b>72276004-Cut</b>	2.4	42110 - Planted Red Pine	Sawtimber Well	79	81-110	Harvest	Shelterwood with Retention	42110 - Planted Red Pine	Two-Aged	No
<p><u>Prescription</u> Recommend shelterwood cut. Leave 60 BA of Red Pine. military leased land. Also in KW management, but needs to be checked with</p> <p><u>Specs:</u> Wildlife on this. Take about half of stand now and than in another 10 years taking the rest with the adjacent Jack Pine stand might put this with the KW schedule.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>											
<b>6</b>	<b>72276006-Cut</b>	4.1	42210 - Natural Red Pine	Sawtimber Well	78	111-140	Harvest	Shelterwood with Retention	42210 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> Recommend shelterwood cut. Leave 60 BA of Red Pine. Military leased land. See note of stand 8 concerning KW management.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> See military agreement for KW in KW plan.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>											
<b>8</b>	<b>72276008-Cut</b>	82.0	42110 - Planted Red Pine	Sawtimber Well	77	81-110	Harvest	Shelterwood with Retention	42110 - Planted Red Pine	Two-Aged	No
<p><u>Prescription</u> Recommend shelterwood cut. Leave 60 BA of Red pine. Military leased land. KW management area check with Wildlife. Take about half of</p> <p><u>Specs:</u> the stand now and than in 10 years along with the adjacent Jack Pine stand may put this in the KW schedule.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> See military agreement for KW in KW plan</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</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
13 72276013-Cut	2.1	42110 - Planted Red Pine	Sawtimber Well	83	171-200	Harvest	Shelterwood with Retention	42110 - Planted Red Pine	Two-Aged	No
<p><u>Prescription</u> Recommend shelterwood cut. Leave 60 BA of Red Pine. military spec. See stand 8 on notes for KW management.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										
20 72276020-Cut	34.4	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	76	81-110	Harvest	Shelterwood with Retention	42141 - Planted Mixed Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Recommend Shelterwood with reserves. Reduce pine down to 60 BA and remove all Aspen and red maple. military leased land and possibly part of KW management Unit. Check with wildlife.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										

**Total Treatment Acreage Proposed: 125**

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 276  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		2G	3A	5E
256	256	0	0	Aspen		0	
506	506	0	0	Jack Pine			0
7	0	0	7	Lowland Conifers	7		
4	4	0	0	Lowland Shrub			
36	34	0	2	Planted Mixed Pines			2
106	99	0	7	Red Pine		4	4
2	2	0	0	Water			
917	901		16	Total Forested Acres	7	4	6
	98%		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
2	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	<b>3A: Conservation Values incompatible with harvest at this time</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Grayling Mgt. Unit**  
**Kevin Ehlert : Examiner**

**Compartment: 276**  
**Year of Entry: 2023**

7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	5E: Long-Term Retention	2	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



**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	42120 - Planted Jack Pine	Sapling Well	163.2	13	Immature	N/A	Jack pine plantation with other deciduous species and shrubs. Jack pine seedlings 10-15' tall. A couple of pocket of mature pine left for visual long Bald Hill Road.																																																		
<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>Jack Pine</td> <td>85</td> <td>Sapling</td> <td>2</td> <td>13</td> </tr> <tr> <td>Northern Pin Oak</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Sapling/Pole</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	85	Sapling	2	13	Northern Pin Oak	10	Sapling	2		Bigtooth Aspen	5	Sapling/Pole	2		<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>Oak (spp.)</td> <td>Medium</td> <td>Variable</td> <td>Seeding</td> </tr> <tr> <td>Mixes Sedges/Grasses</td> <td>Full</td> <td></td> <td>Non-Wood</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Oak (spp.)	Medium	Variable	Seeding	Mixes Sedges/Grasses	Full		Non-Wood																						
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2	42220 - Natural Jack Pine	Sapling Well	5.2	38	1-50	N/A	Small Immature Jack pine stand mixed with immature Aspen. Some scattered Red pine saw and pole timber. Stand created by spot fire from Bald Hill fire. Manage with surrounding jack pine plantation.																																																		
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4	42110 - Planted Red Pine	Sawtimber Well	3.5	79	81-110	N/A	Planted Red pine stand mixed with Oak and some Jack pine. Stand escaped Bald Hill fire. Jack pine regen encroaching on edge of stand.																																																		
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5	4139 - Aspen, Mixed Deciduous	Sapling Well	47.3	25	Immature	N/A	Immature Quaking aspen stand mixed with Oak. Some scattered pine as well. Scattered pine consists of Redpine and some Jack pine.																																																		
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6	42210 - Natural Red Pine	Sawtimber Well	5.3	78	111-140	N/A	Pocket of Red pine saw/pole timber that escaped Bald Hill fire.																																																		
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7	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	91.3	16	Immature	N/A	Immature Jack pine plantation mixed with Oak and some Aspen and Red maple. Planted with KW weave pattern.																																																						
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8	42110 - Planted Red Pine	Sawtimber Well	91.5	77	81-110	N/A	Planted Red pine stand mixed with Oak and some Aspen. Oak and Red maple in the understory. More Oak than Red maple. Stand is part of KW management and was to be scheduled in 2010 for harvest, but was not.																																																						
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9	42220 - Natural Jack Pine	Poletimber Well	157.6	37	1-50	N/A	Large natural Jack pine stand. Much of the jack pine is still sub merchantable size. Stand was part of the Bald Hill Fire. Will find pockets of Red pine pole and saw timber as well as mixed Aspen Oak sapling/pole stands that escaped the fire or regenerated after the fire.																																																						
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10	4131 - Aspen, Oak	Sapling Well	46.5	33	Immature	N/A	Immature Aspen stand mixed with Oak. Oak is a mix. Some scattered Jack pine and Red pine seedlings and saplings.																																																						
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12	4131 - Aspen, Oak	Sapling Well	59.3	34	Immature	N/A	Immature Aspen stand mixed with Oak. Some Red Maple scattered throughout stand too. Bigtooth aspen, Red and White Oak predominant species. Stand just reaching pole size with still a lot of saplings. Some small pockets of Jack pine regen scattered throughout stand.																																																						
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<b>13</b>	42110 - Planted Red Pine	Sawtimber Well	2.2	83	171-200	N/A	Pocket of Red pine saw timber mixed with some deciduous species. This pocket of Red pine can be expanded on in acreage. This pocket escaped the Bald Hill Fire.																																																												
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<b>14</b>	6124 - Lowland Spruce-Fir	Poletimber Well	7.0	94	81-110	N/A	Small lowland conifer stand. Visited in winter but see some puddles and lowland indicators, likely too wet for harvest.																																																												
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Tag Alder	Low	Variable	Tall Shrub																																																																
<b>15</b>	42120 - Planted Jack Pine	Sapling Well	79.6	26	Immature	N/A	Jack pine plantation planted in weave with mixed Oaks and some cherry. Contains a 4 acre lowland(stand16) in the North end.																																																												
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<b>16</b>	6229 - Mixed lowland shrub	Nonstocked	4.0			No	Lowland grasses/sedges with shrubs. A couple of scattered Jack pine saplings. Shrubs consist of primarily willow.																																																												
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<b>17</b>	4130 - Aspen	Poletimber Well	103.0	35	1-50	N/A	Small pole size Quaking Aspen stand mixed with other deciduous species. Will find a few small pockets of Red pine throughout the stand. East side of stand contains balsam fir understory. Contains several small lowland inclusions in the East end, and a drainage between stand 14 and 19 containing tag Alder and lowland conifer.																																																												
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<b>18</b>	42210 - Natural Red Pine	Sawtimber Well	3.5	107	201+	N/A																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19	500 - Water	Nonstocked	1.7			No	Flooded area, extends to adjacent property.
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20	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	36.4	76	81-110	N/A	Red pine stand mixed with Oak/aspen patches. South end of stand near private property has a balsam fir understory.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	14	Log/Pole	11		Balsam Fir	Low	Variable	Sapling
White Oak	8	Log/Pole	11		Balsam Fir	Low	Variable	Pole
Quaking Aspen	15	Pole/Log	9		White Pine	Low	Variable	Sapling
White Pine	5	Log	14		Red Pine	Low	Variable	Sapling
Red Pine	58	Log/Pole	12	76	Oak (spp.)	Low	Variable	Sapling