



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72224

Entry Year 2021

Acreage: 524

County Crawford

Management Area: AuSable Outwash

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**Revision Date:** 2019-07-03

**Stand Examiner:** Scott McClarren

**Legal Description:**

T25N R3W Sections 4, 5, & 6 Beaver Creek Township

**Identified Planning Goals:**

To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment.

**Soil and topography:**

Terrain is level to slightly rolling. Soils consist of primarily Graycalm and Grayling sands. These soils are excessively drained with a low water-holding capacity.

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

This compartment is very fractionalized and consists of state lands interspersed with private lands, much of which are residential. Historically this compartment used to be much larger. Over the past twenty years, lands have been disposed of to facilitate the Weyerhaeuser Manufacturing facility as well as sold for industrial and state ownership that is bisected, with parcels of state land on the far east and far west ends of the compartment.

**Unique Natural Features:**

The compartment has potential to contain pine barrens species in the jack pine/oak barren types but, the only species observed was some rough fescue and a few Hill's Thistle, a species of concern.

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

None known at this time.

**Special Management Designations or Considerations:**

The compartment contains some historical MIMS research plots.

**Watershed and Fisheries Considerations:**

There are no water bodies within the compartment. This area overlies the aquifer that feeds the Ausable River.

**Wildlife Habitat Considerations:**

The compartment has been heavily treated in the past, resulting in younger age classes of aspen and pine. The small size of the ownership limits opportunities and habitat, but a great diversity of song birds were noted in the area and deer sign were observed. The compartment will offer some hunting opportunities, but set backs from residential areas and interface along I-75 limit hunting a large part of the ownership.

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

Active sand/gravel pits exist in the area, and there is good sand & gravel potential within the compartment. There are some active oil & gas leases just north of the compartment (expiring in August 2019), but the nearest significant production is the Beaver Creek field two miles to the southwest. Oil & gas potential within the compartment is considered moderate. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

Access to the compartment can be easily obtained via County roads off Four Mile and Five Mile, which bound the compartment on the north and south edges. There are limited state forest trails in the compartment. Former logging trails were blocked off and are not passable by vehicle. Private roads of Gaberdiel Lane and Williams Trail lead up to the state land. A railroad track bisects the state ownership on the east end, limiting access. I-75 and US-127 bisect the compartment, limited access from the east to the west except using the bridge on Four Mile Road.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

The compartment contains no designated recreational trails or facilities. These properties can host dispersed recreational opportunities, but opportunities are limited due to the smaller size of the parcels of state land and the interface with residential development.

**Fire Protection:**

The compartment contains some high fire hazard types which are intermixed with hardwoods. Overall, fire hazard for the compartment is moderate. This compartment will deal more with the urban interface issue.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

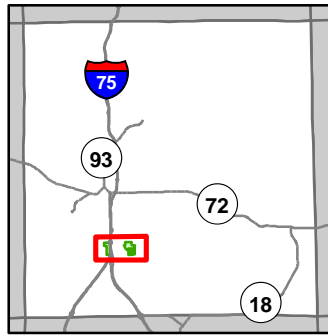
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

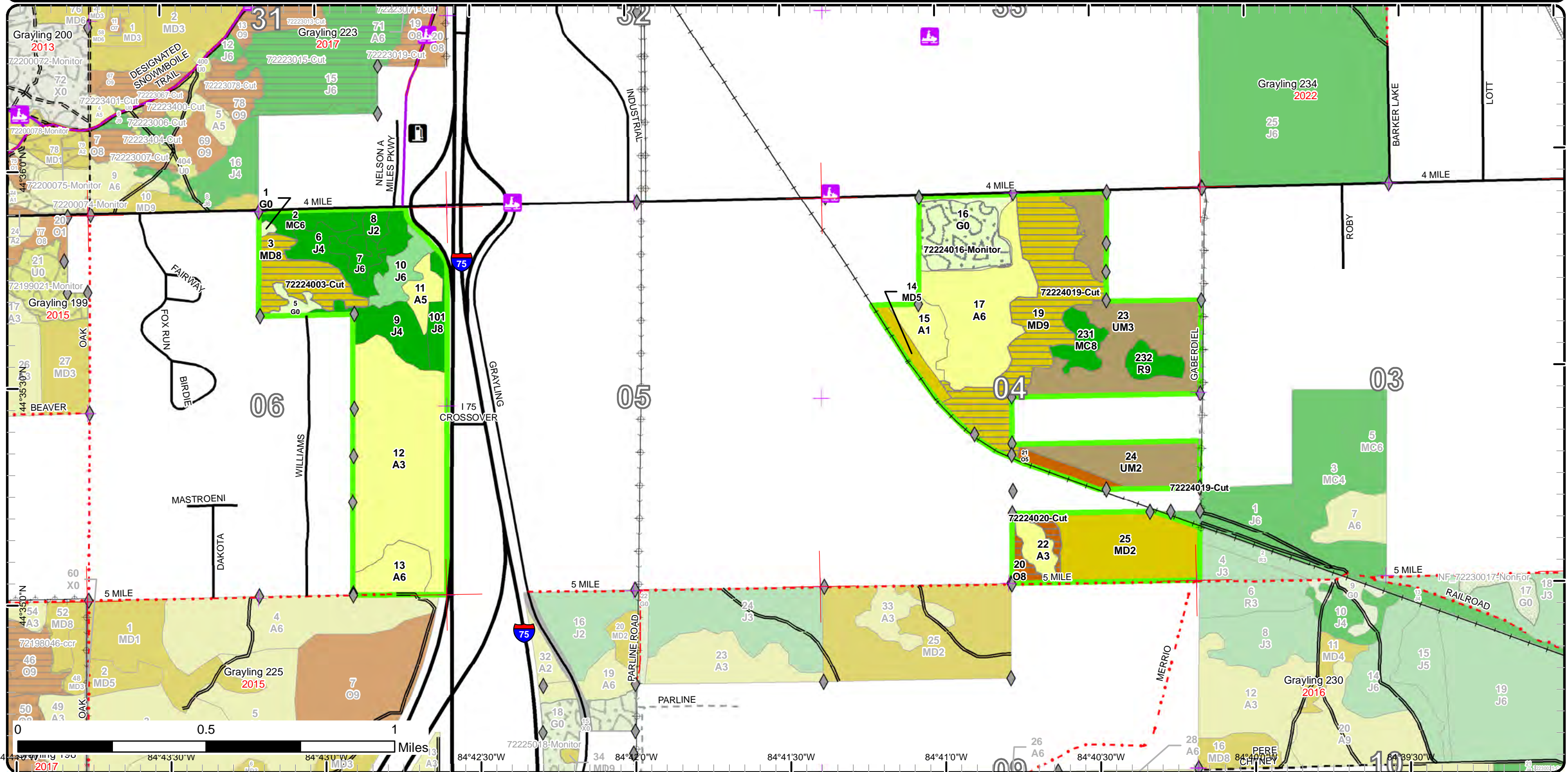
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 224  
 T25N, R03W, Sec. 4, 6  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: AuSable Outwash  
 YOE: 2021  
 Acres: 524 GIS Calculated  
 Examiner: Scott McClarren  
 Map Revised: 12/11/2019  
 Map Phase: Post-Review



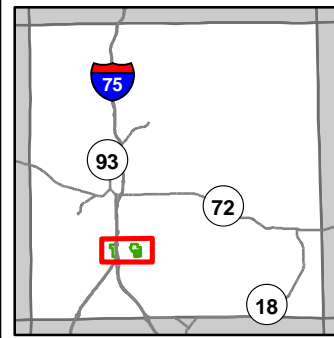
- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- + Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Gas Station
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland



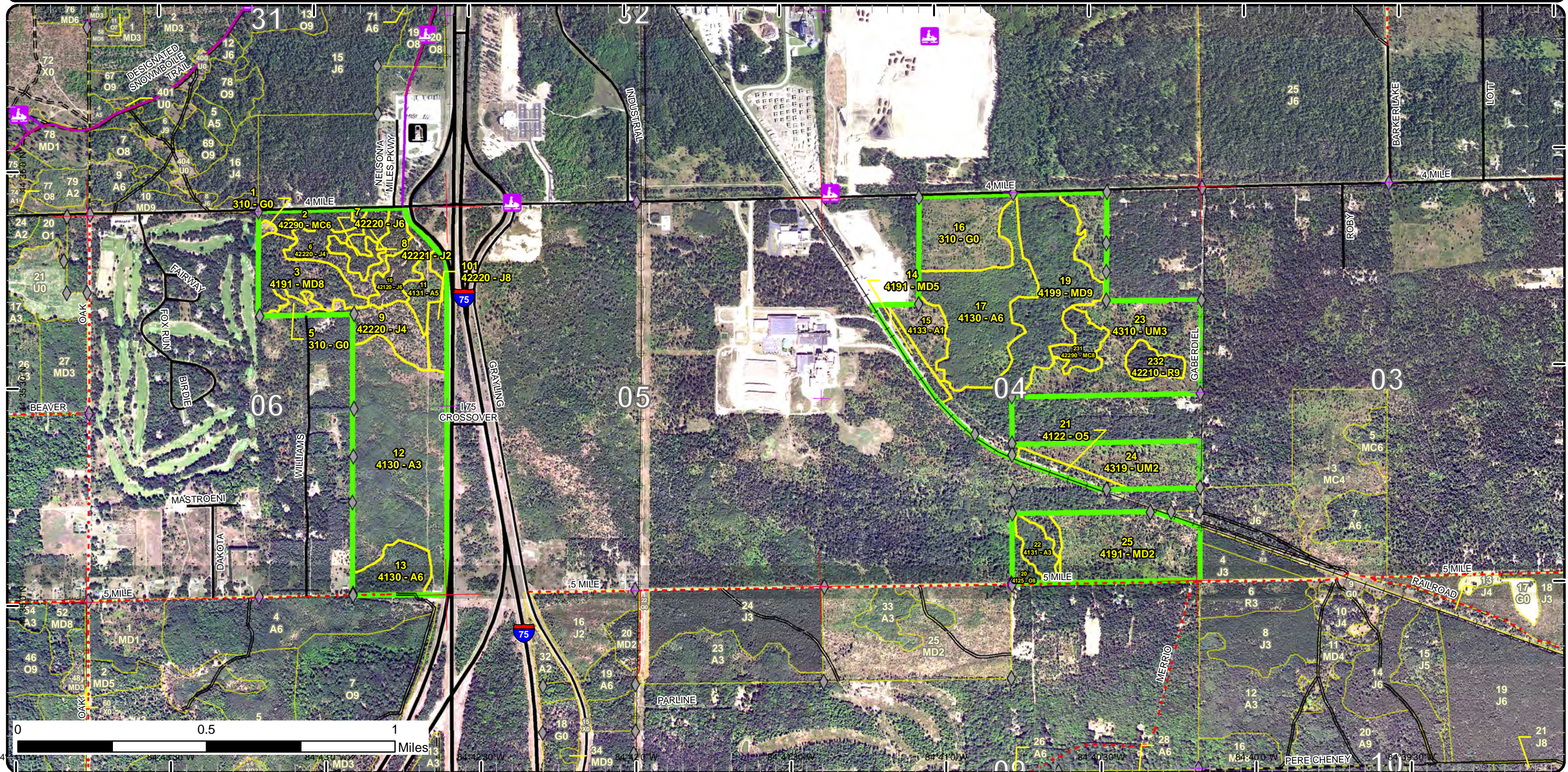


# Stand Boundary Map

Compartment: 224  
 T25N, R03W, Sec. 4, 6  
 County: Crawford  
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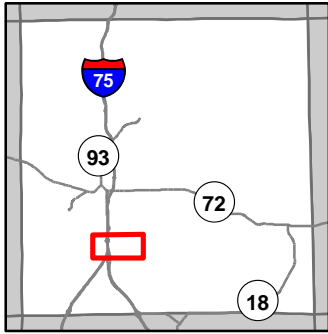
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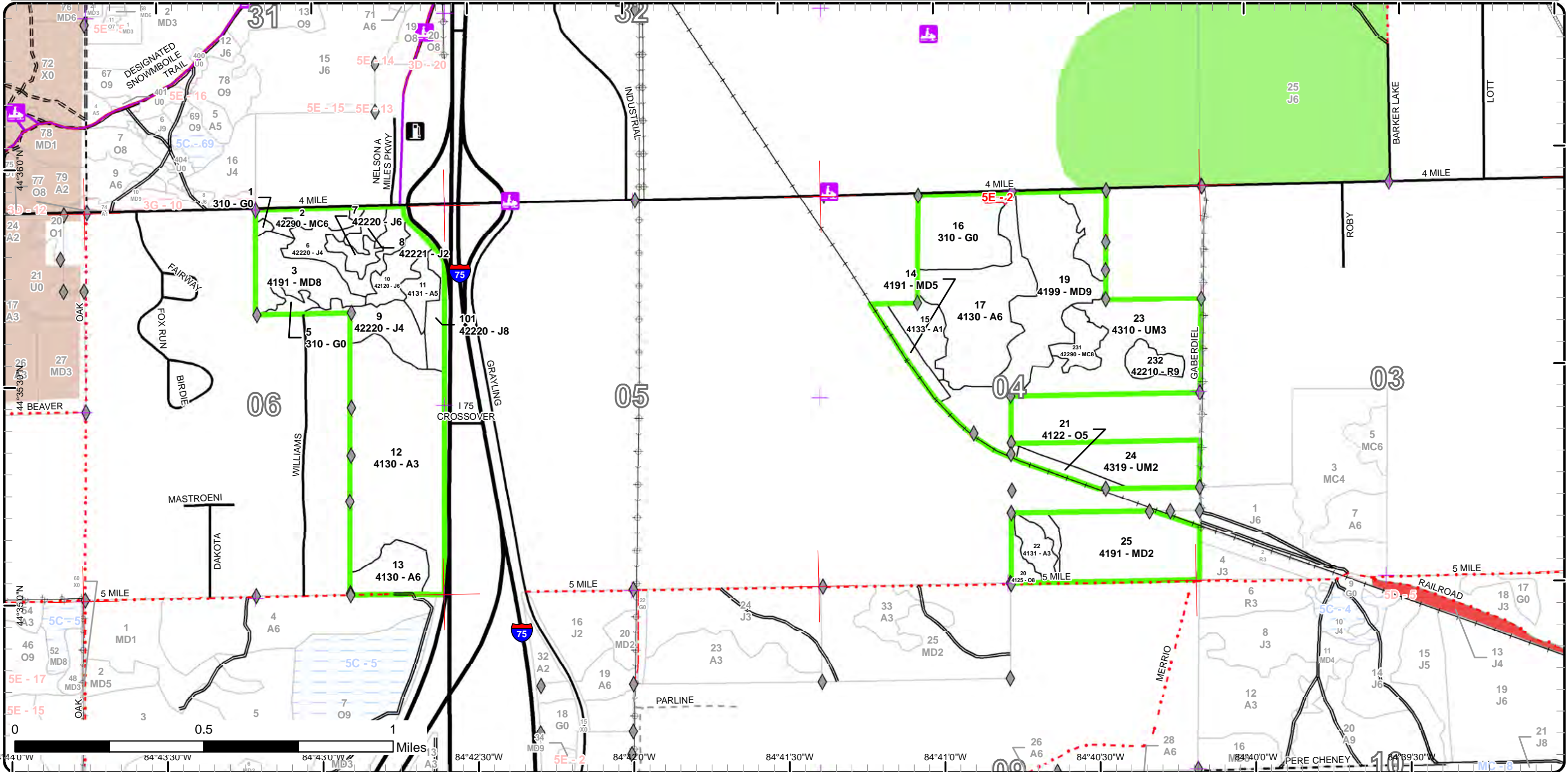


# Special Conservation Areas

Compartment: 224  
 T25N, R03W, Sec. 4, 6  
 County: Crawford  
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- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Gas Station
- Powerline
- Compartment Boundary
- Unavailable
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Kirtland Warbler Habitat
- Research, Development, and Military Lands



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	99	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175
Herbaceous Openland	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Jack Pine	0	0	0	5	18	31	8	0	0	0	0	0	0	0	0	0	0	0	62
Mixed Upland Deciduous	0	0	43	0	0	91	0	0	0	0	0	0	0	0	0	0	0	0	133
Natural Mixed Pines	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	9	17
Oak	0	0	0	0	6	0	0	0	0	7	0	0	0	0	0	0	0	0	13
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Upland Mixed Forest	0	58	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
<b>Total</b>	<b>34</b>	<b>58</b>	<b>169</b>	<b>81</b>	<b>24</b>	<b>130</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>525</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2021

Compartment 224

Total Compartment Acres: 524

### Acres of Harvest

Commercial Harvest - 91  
 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	84	0	0	0	0	0	0	0	0	84
Oak	7	0	0	0	0	0	0	0	0	7
<b>Total</b>	<b>91</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>91</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	91	0	0	0	0	24	0	0	0	115
Next Step	0	167	84	0	0	84	258	84	0	675
<b>Total</b>	<b>91</b>	<b>167</b>	<b>84</b>	<b>0</b>	<b>0</b>	<b>84</b>	<b>282</b>	<b>84</b>	<b>0</b>	<b>791</b>



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

<b>3</b>	<b>72224003-Cut</b>	21.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	40	1-50	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Harvest all stems greater than 2". Follow standard retention guidelines. Add oak wilt specs. Add drumming log specs for grouse.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Other, Pre-Commercial Th</p> <p><u>Acceptable</u> Aspen, oak objective. Any conifer will also be considered acceptable species. Maple is abundant and expected to be a significant portion the cover. If maple regenerates to greater than 60% of the cover, site prep and plant red pine.</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 /2020</p>											
<b>16</b>	<b>72224016-Monitor</b>	24.2	310 - Herbaceous Openland	Nonstocked		Unspecified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>19</b>	<b>72224019-Cut</b>	62.5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	40	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Harvest all stems greater than 2". Follow standard retention guidelines. Add oak wilt specs. Add drumming log specs for grouse.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Treatments: Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Th</p> <p><u>Acceptable</u> Aspen, oak objective. Any conifer will also be considered acceptable species. Maple is abundant and expected to be a significant portion the cover. If maple regenerates to greater than 60% of the cover, site prep and plant red pine.</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 /2020</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
20 72224020-Cut	7.4	4125 - Black, N. Pin Oak	Sawtimber Medium	87	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with no retention due to size and declining health of oak. Add 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> Oak is the target species (minimum 30%). Maple, aspen, and pine are also accepted species.</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 /2020</p>										

**Total Treatment** 115.1  
**Acres Proposed:**



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren : Examiner

Compartment: 224  
Year of Entry: 2021

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<i>With Condition</i>	Not Available

### Dominant Site Conditions

5E

174	174	<b>0</b>	0	<b>Aspen</b>	
34	33	<b>0</b>	1	<b>Herbaceous Openland</b>	1
61	61	<b>0</b>	0	<b>Jack Pine</b>	
133	133	<b>0</b>	0	<b>Mixed Upland Deciduous</b>	
17	17	<b>0</b>	0	<b>Natural Mixed Pines</b>	
13	13	<b>0</b>	0	<b>Oak</b>	
7	7	<b>0</b>	0	<b>Red Pine</b>	
85	85	<b>0</b>	0	<b>Upland Mixed Forest</b>	
524	522		1	Total Forested Acres	1
	100%		0%	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		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.

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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
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	310 - Herbaceous Openland	Nonstocked	0.9		Immature	No	Looks like an old borrow pit. Old comment- (small grassy opening in valley, most likely influenced by frost. some tree seedlings/saps throughout in low numbers.)
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Cherry (spp.)		Low		Tall Shrub	
		Oak (spp.)		Low		Seeding	
		Spotted Knapweed		Low		Non-Wood	
		Jack Pine		Trace		Sapling	
2	42290 - Natural Mixed Pine	Poletimber Well	7.8	42	81-110	N/A	Combined stands 2 and 3 due to small acreage and similar composition. Stand is a healthy two aged mixed conifer. Crowns have plenty of space to grow.
		<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	
		Black/Red (Hybrid) Oak		10	Log/Pole	10	
		White Pine		11	Pole	8	
		Red Pine		28	Log	11	68
		Jack Pine		44	Pole	6	42
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	Old Comments- (mixed stand of red p, jp and oak. variable density of each species, areas where red pine are more prevalent as well as spots where jp dominate. jp is smaller and denser in eastern portions of stand.)
		Black Cherry		Low	5 - 10 feet	Sapling	
		Black/Red (Hybrid) Oak		Low	< 5 feet	Sapling	
3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	21.0	40	1-50	N/A	Aspen pole/log pockets with oak/hawthorn underneath in most areas and jack pine/cherry openings between them. Older oaks dominate canopy in northwest and are scattered through the stand. Oak is die back occurring. Some isolated aspen mortality seen as well. OFS point taken at stick nest in jack pine snag (no activity and no sign). Old railroad grade runs east/west through stand.
		<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	
		Quaking Aspen		36	Pole/Log	9	40
		Black/Red (Hybrid) Oak		35	Log	14	75
		Jack Pine		15	Pole/Log	8	
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	Old comments- (very mixed stand w/ some areas that look to have had overstory removed. aspen/oak are dominant w/ some areas where jp is very numerous. looks to be 2-aged and multistoried.)
		Serviceberry (Juneberry)		Medium	5 - 10 feet	Tall Shrub	
		Hawthorn (spp.)		Medium	5 - 10 feet	Tall Shrub	
		Black Cherry		Medium	< 5 feet	Sapling	
		Black/Red (Hybrid) Oak		Medium	5 - 10 feet	Sapling	
		Red Maple		Medium	5 - 10 feet	Sapling	
5	310 - Herbaceous Openland	Nonstocked	3.6			No	cherry savanna w/ aspen near perimeter and occasional jp seedlings.
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Quaking Aspen		Low		Sapling	
		Cherry (spp.)		Medium		Sapling	
6	42220 - Natural Jack Pine	Poletimber Poor	17.6	35	1-50	N/A	mixed stand w/ jp dominant. sweetfern is very thick. rp are scattered.
		<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>
		Black/Red (Hybrid) Oak		7	Sapling/Pole	4	
		Jack Pine		86	Pole	6	35
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Serviceberry (Juneberry)		Low	< 5 feet	Tall Shrub	
7	42220 - Natural Jack Pine	Poletimber Well	4.7	45	51-80	N/A	Changed stand age from 61 to 45. Old comments- mixed stand of jack pine with some aspen and occasional oak. jack pine is fair quality. old railroad grade runs through center of stand.)
		<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>
		Jack Pine		88	Pole	7	45
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Jack Pine		Trace	5 - 10 feet	Sapling	
		Cherry (spp.)		Medium	5 - 10 feet	Tall Shrub	
		Oak (spp.)		Low	< 5 feet	Tall Shrub	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
8	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	4.7	20	1-50	N/A	Changed stand type from oak to jack pine. Old comment- (stand regenerating well, mixtyre of oak/jp with a few overstory oak.)																																																						
<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>Black/Red (Hybrid) Oak</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td>20</td> </tr> <tr> <td>Jack Pine</td> <td>64</td> <td>Sapling/Pole</td> <td>4</td> <td>20</td> </tr> <tr> <td>Black Cherry</td> <td>15</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	10	Pole/Sapling	5	20	Jack Pine	64	Sapling/Pole	4	20	Black Cherry	15	Sapling	2																																			
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9	42220 - Natural Jack Pine	Poletimber Poor	15.7	40	1-50	N/A	Patchy, open grown jack pine with openings of scrub cherry and scattered prarie willow. Jp age ranges from 34-45 years old.Old comments- (Stand swapped from Non-Forested to Forested. variable density jack pine stand. open pockets throughout. seems to be 2-aged, possibly natural seeded/regenerated)																																																						
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10	42120 - Planted Jack Pine	Poletimber Well	10.1	49	51-80	N/A	Jack pine looks healthy (J6). Some naturals mixed in that are a little older. Stand contains some pockets of tightly spaced submerchantable jack pine.  OLD COMMENTS- (jack pine w/ some pin oak mixed in. mnot very great qual but is growwing fair. )																																																						
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11	4131 - Aspen, Oak	Poletimber Medium	7.0	27	1-50	N/A	Somewhat open aspen stand with some larger scattered oaks, aspen, and jp left from harvest.  Old comment- (mixed stand w/ osk, jp and aspen present in about = numbers.)																																																						
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12	4130 - Aspen	Sapling Well	87.6	18	Immature	N/A	Stand contains consistant hawthorn through understory and has out competed aspen in a few pockets. Serviceberry is scattered through stand as well. A few scotch pines along powerlineOld comments- (mixed stand w/ aspen and oak dominant. lots of cherry present as well, mainly around perimeter. some overstory along interstate that was left as buffer.)																																																						
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13	4130 - Aspen	Poletimber Well	14.2	28	51-80	N/A	Changed stand from mixed deciduous to aspen with oak. White pine is pretty consistant through most of the understory currently. Stand opens up and is poorly stocked in middle but has heavy wildlife use. Hawthorn is also scattered through most of the understory in low to medium densities. Stand contains a few super-canopy white pines in south side.Old comments- (mixed stand of oak/aspen with a fair amount of jp. small, more open area in center portion of stand. some overstory white and red pine, concentrated at perimeter.)																																																						
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14	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	7.1	45	1-50	N/A	Stand is close to 100' wide between grade and stand 15.Old comments- (New stand added. oak/aspens/jp stand growing fairly well w/ some openings throughout.																																								
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15	4133 - Aspen, Mixed Pine	Sapling Poor	10.9	13	1-50	N/A	Dense pocks of aspen mized with open oak/jp/cherry. Oaks are heavily browsed.Old comments- Stand swapped from Non-Forested to Forested. stand was harvested in 2006 with red and white pine being left along with pockets of oak regen. stand is converting to aspen with thick regen in most areas of stand. some red maple and oak regen as well.																																								
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16	310 - Herbaceous Openland	Nonstocked	29.4		Unspecified	4211 - Planted Red Pine	Replant completed 05/13/2019 after failing YR1 survey in 2018. Completion report stocking was 1,008TPA. 16% mortality resulting in 842 TPA. Competition is sparse, seedlings are 92% free to grow. 1.89' average height for red pine seedlings.  Was cut in 2013 (#021-11), with burn Rxd (C72-690) to set back RM. Through variance approved 2016, the M.O. was changed to planted RP. Was chopped in 2016 (C72-808), herbicide applied by skidder July 2017, trenched August 2017, & RP was planted May 2018. Yr 1 regen survey in Oct 2018 found 26% mortality & excellent FTG (very effective site prep herbicide). 969 initial stocking - 26% = 717 RP estimated stocking. Mortality seemed to be a combination of drought stress & burying too deep (from trench wall erosion), with the poorer-developed planting stock faring the worst. Re-planted w/ top-pruned 4-0 bareroot RP in May 2019. Previous comments: oak stand was shelterwood harvested last YOE.																																								
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17	4130 - Aspen	Poletimber Well	47.0	27	51-80	N/A	Well stocked A6 with a pocket of open cherry/maple/witch hazel in southeast visible from aerial. High density white oak consistant through most of sub-canopy. Sapling aize red maple and white oak dominate patches in the north.Old comments- (Aspen stand regenerating well w/ some oak and red maple in the canopy. JC: error in adjacent planted stand Rx prompted update on this one -- no changes made to original stand examiner's data.)																																								
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19	4199 - Other Mixed Upland Deciduous	Sawtimber Well	62.5	40	81-110	N/A	Large diameter black and red oaks through most of stand with maple poles through most of understory and pockets of aspen pole/saw timber as well. The black oak has a lot of die back occurring, but most of the northern red oak still show some vigor and have good genetics in places. Flat topography through most of stand. Pocket of natural red pine towards middle of stand. Hawthorn and witch hazel present.  Old comments- (mixed stand w/ red maple poles being dominant with red and white oak present in descent numbers along w/ some red pine and aspen clones throughout. oak and rp more common in some pockets. seems as though this has resulted from a harvest in which aspen and red maple were removed leaving oak and rp.)																																								
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<b>20</b>	4125 - Black, N. Pin Oak	Sawtimber Medium	7.4	87	51-80	N/A	Oak is declining with red maple taking over underneath.																																																	
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<b>21</b>	4122 - Oak, Pine	Poletimber Medium	5.9	35	1-50	N/A	100' strip of oak/pine between railroad track and stand 24. Most trees are around 30 years old, but contains a few older oaks and red pines.																																																	
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<b>22</b>	4131 - Aspen, Oak	Sapling Well	7.4	25	1-50	N/A	Stand is sapling size over all with some aspen getting pole size. Log and x-log size oaks scattered through stand, but most oak is pole sized. Serviceberry, hawthorn, and witch hazel all found.																																																	
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<b>23</b>	4310 - Pine, Oak Mix	Sapling Well	57.8	7	1-50	N/A	Split the two large clumps of natural red/white pine from stand 23. Stand is a pretty even mix of planted jack pine with oak, maple and cherry. Some red pine has seeded into furrows as well. About 10-20 BA of scattered red and white pine through most of stand. Some pole sized oaks present as well. Old comments- (Stand swapped from Non-Forested to Forested. natural red pine left following recent harvest occupies most of overstory, some white pine as well. red maple and mixed oak occupy intermediate structure. understory contains mainly oak and red maple regen. Per review, prescribe planting of jack pine in areas not regenerating well natural. Stand was harvested last yoe and contains some pockets of natural white pine and red maple regeneration. Sparse open areas should be planted to JP. 35 acres in the south half of the stand were supplemental planted to JP in 2012 (C72-868). Passed Year 3 regen survey to a mix of planted JP and natural regen. Canopy updates were based on the treatment reports and past inventory data, not a site visit.)																																																	
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<b>24</b>	4319 - Mixed Upland Forest	Sapling Medium	26.9	12	1-50	N/A	Sapling size mixed stand with around 10-20 ba of pole sized white and red oak.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
<b>25</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	42.6	12	1-50	N/A	West side of stand is mostly cherry with jack pine. Parts of east side are dominated by oak. Small pockets of aspen through stand. Heavy browse in most places. Railroad track runs through northeast corner.  Old Comments- (red pine overstory with intermediate oak and red maple throughout, all of which were left following recent harvest. Per review, cancel FTP C72-585 that proposed planting east half of stand, rely on natural regeneration instead.)																																																															
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<b>101</b>	42220 - Natural Jack Pine	Sawtimber Medium	7.9	59	51-80	N/A	Jack pine is near the end of its life cycle for site and pocket mortality is occurring. Mature scotch pine is mostly adjacent to highway, but most of atand has scotch pine through understory. A somewhat recent isolated pocket of blowdown in the north. Split from stand 10. Appears to be natural except for the few planted rows of red pine pine adjacent to highway.  OLD COMMENTS- (jack pine w/ some pin oak mixed in. mnot very great qual but is growing fair. )																																																															
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<b>231</b>	42290 - Natural Mixed Pine	Sawtimber Medium	9.1	135	81-110	N/A	Natural red and white pine ranging from 50-135 years old (Some white pine may be older). Split from stand 23. Last harvest removed all merch jack pine, but all red and white pine was left.  Old comments from stand 23- (Stand swapped from Non-Forested to Forested. natural red pine left following recent harvest occupies most of overstory, some white pine as well. red maple and mixed oak occupy intermediate structure. understory contains mainly oak and red maple regen. Per review, prescribe planting of jack pine in areas not regenerating well naturall. Stand was harvested last yoe and contains some pockets of natural white pine and red maple regeneration. Sparse open areas should be planted to JP. 35 acres in the south half of the stand were supplemental planted to JP in 2012 (C72-868). Passed Year 3 regen survey to a mix of planted JP and natural regen. Canopy updates were based on the treatment reports and past inventory data, not a site visit.)																																																															
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<b>232</b>	42210 - Natural Red Pine	Sawtimber Well	6.9	135	111-140	N/A	Natural red and white pine ranging from 50-135 years old (Some white pine may be older). Split from stand 23. Last harvest removed all merch jack pine, but all red and white pine was left.  Old comments from stand 23- (Stand swapped from Non-Forested to Forested. natural red pine left following recent harvest occupies most of overstory, some white pine as well. red maple and mixed oak occupy intermediate structure. understory contains mainly oak and red maple regen. Per review, prescribe planting of jack pine in areas not regenerating well naturall. Stand was harvested last yoe and contains some pockets of natural white pine and red maple regeneration. Sparse open areas should be planted to JP. 35 acres in the south half of the stand were supplemental planted to JP in 2012 (C72-868). Passed Year 3 regen survey to a mix of planted JP and natural regen. Canopy updates were based on the treatment reports and past inventory data, not a site visit.)																																																															
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