



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72287

Entry Year 2024

Acreage: 984

County Crawford

Management Area: AuSable Outwash

**Stand Examiner:** Derek Nellis

### Legal Description:

T27N R01W Sections 1, 2, Crawford County, Lovells Twp

### Identified Planning Goals:

To manage and maintain species and structural diversity, health, productivity, and sustainability throughout the compartment. To provide multiple uses of the land while incorporating any visual management needed.

### Soil and topography:

Soils consist of well-drained Grayling sand. The low areas contain poorly drained organic Rifle peat. The terrain is mostly flat with some rolling hills.

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

Private land on the east and west sides of the compartment. Some full time residence's on the east side along Walsh Road. One private forty surrounded by state in section 2, should be considered for acquisition.

### Unique Natural Features:

Pale agoseris found to the NE. Rough Fescue and Hill's Thistle are found to the north, west, and east. There is the potential for Calypso bulbosa, round leaved orchid, and limestone oak fern in this compartment.

### Archeological, Historical, and Cultural Features:

None.

### Special Management Designations or Considerations:

None.

### Watershed and Fisheries Considerations:

Middle Branch of Big Creek flows through private on the east side of section 1. The Middle Branch is a part of the Au Sable River Natural River designation.

### Wildlife Habitat Considerations:

To maintain existing cover types and promote age class diversity where possible to improve habitat conditions for various species of wildlife. The compartment contains winter deeryard. Manage timber to allow for abundance of natural browse within vicinity of deeryard.

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

No known potential exists for commercial metallic mineral production in this part of the state. The nearest known active sand/gravel pit is the State-owned Bald Hill Clay Pit, which is less than four miles west and is currently leased to the Crawford County Road Commission. There appears to be some potential for sand & gravel within the compartment. There is no known potential for hydrocarbons from known producing formations beneath the compartment. There has been no recent well permitting activity in the area, and there is no history of mineral leasing within the compartment.

### Vehicle Access:

Thundermug, Townline, and Walsh Roads provide access to the West, North, and East sides of the compartment. No vehicle access to the south center because of the organic soils. All new roads created for timber sales will be closed upon completion of the sale.

### Survey Needs:

None.

### Recreational Facilities and Opportunities:

The Shore to Shore hiking and equestrian trail and midland to mackinaw scout trail occur in the east half of this compartment. The designated Snowmobile trail 409 in in the east and north half of the compartment. Dispersed recreation

of bird watching, and hunting is also popular in the compartment.

**Fire Protection:**

Access to the fire prone types is more than adequate. Water may be obtained from the West Branch Big Creek three quarters of a mile west of the compartment on Townline Road.

**Additional Compartment Information:**

None.

**The following reports from the Inventory are attached:**

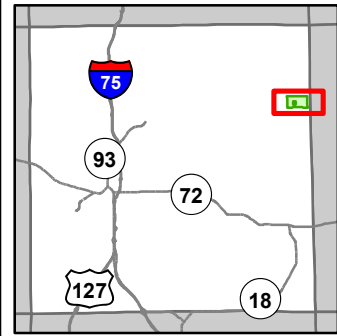
**Total Acres by Cover Type and Age Class**  
**Cover Type by Harvest Method**  
**Proposed Treatments – No Limiting Factors**  
**Proposed Treatments – With Limiting Factors**  
**Stand Details (Forested and Nonforested)**  
**Dedicated and Proposed Special Conservation Areas**  
**Site Condition Details**

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

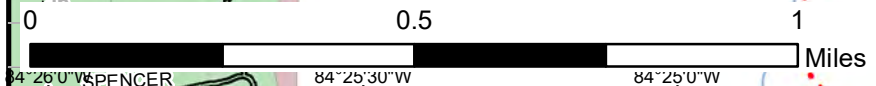
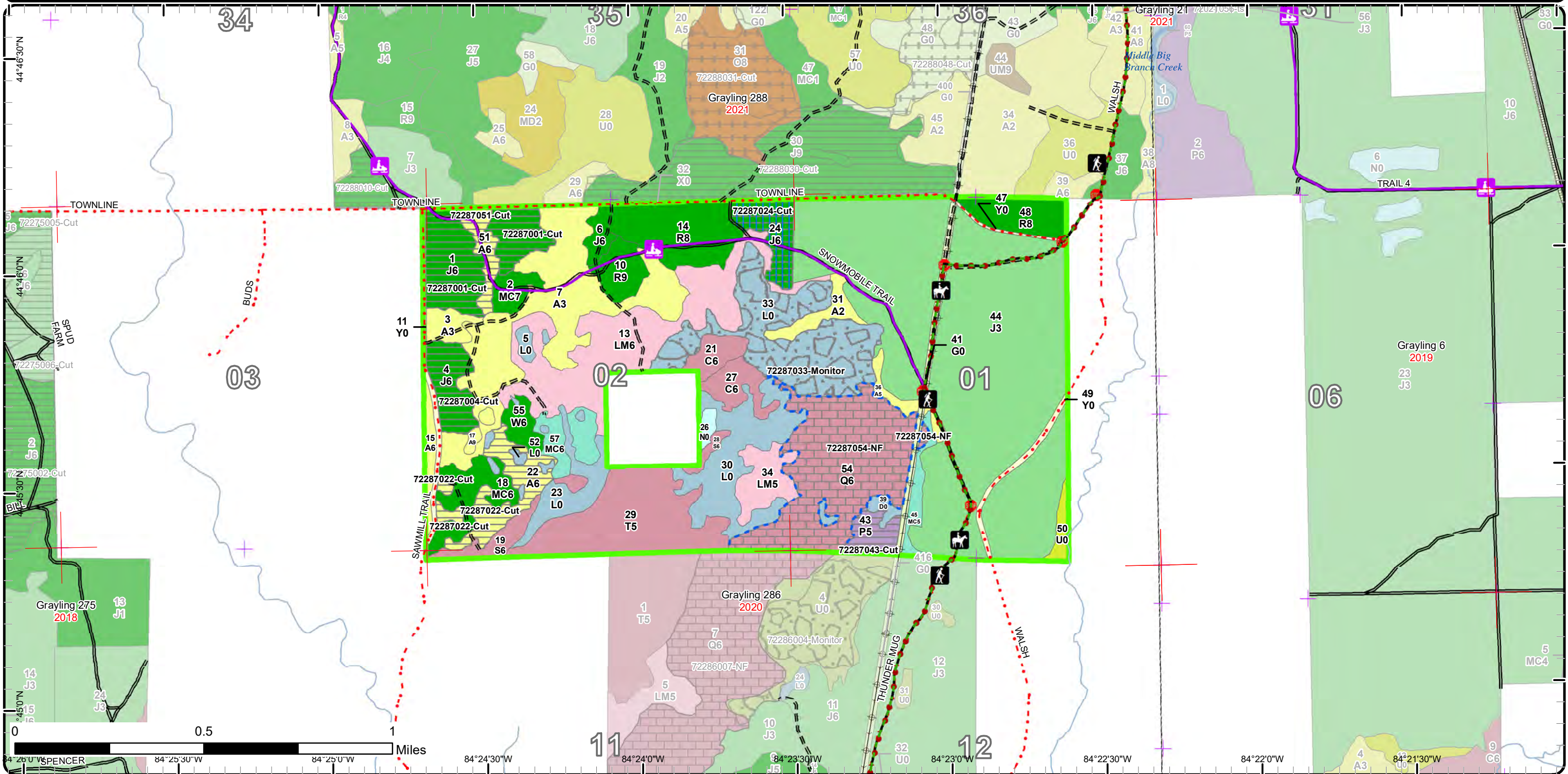
**Base feature information, stand boundaries, cover types, and numbers**  
**Proposed treatments**  
**Site condition boundaries**  
**Details on the road access system**

# Cover Type & Treatments Map

Compartment: 287  
 T27N, R01W, Sec. 1, 2  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: AuSable Outwash  
 YOE: 2024  
 Acres: 984.1 GIS Calculated  
 Examiner: Derek Nellis  
 Map Revised: 12/27/2022  
 Map Phase: Post-Review



- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- Habitat Structures
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil



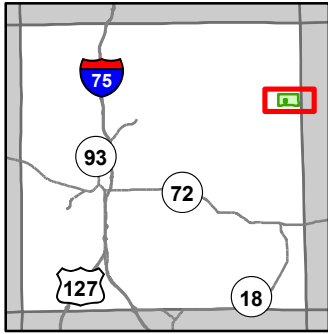




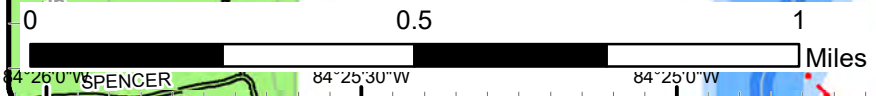
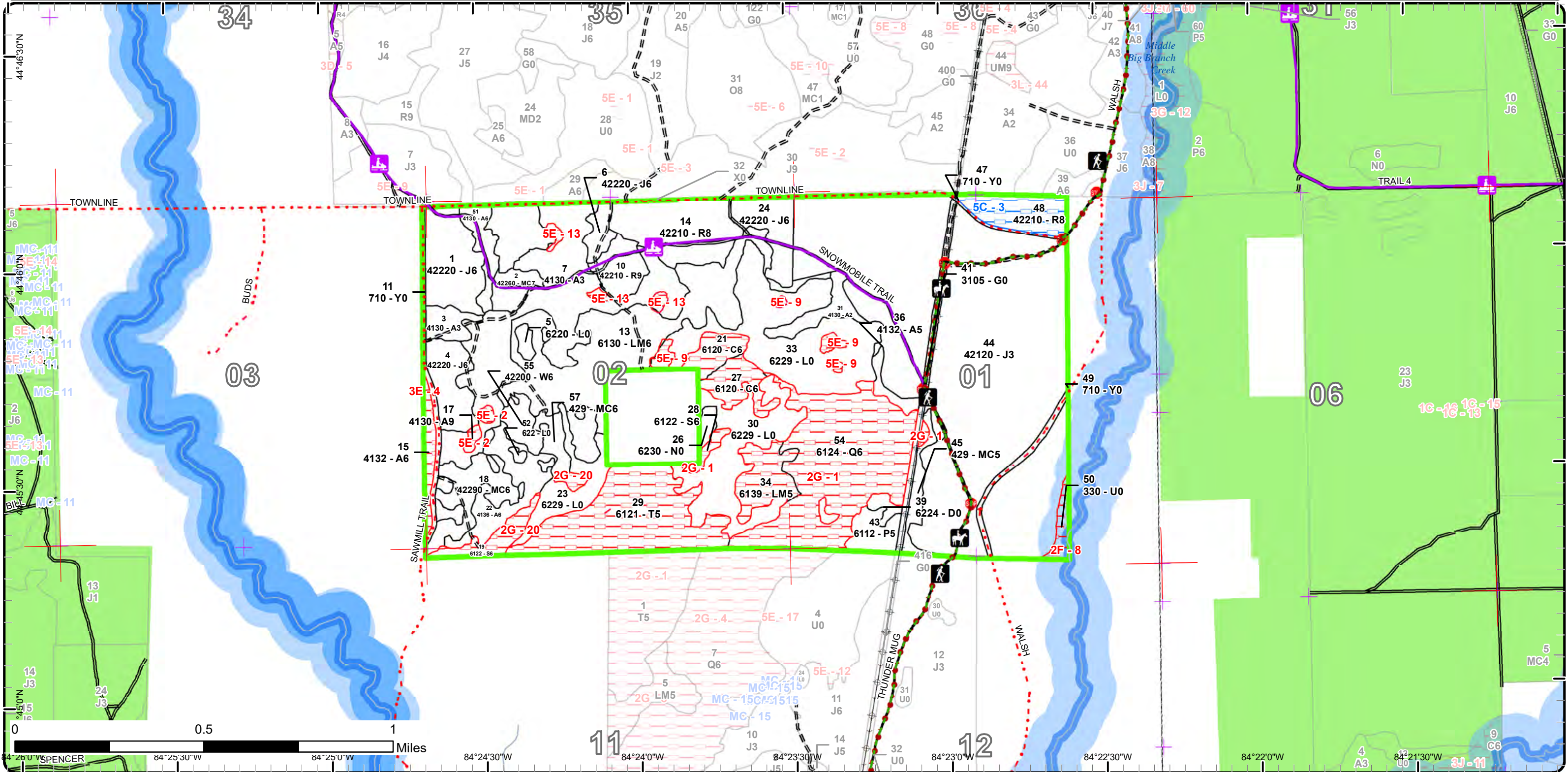


# Special Conservation Areas

Compartment: 287  
 T27N, R01W, Sec. 1, 2  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: AuSable Outwash  
 YOE: 2024  
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- Miris Corners
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- Counties
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- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Sign
- Perennial River
- █ Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3E: Easement / lease, non-military (e.g. Consumers Power red pine, etc)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- High Priority Trout Stream Buffer



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	79	8	0	0	20	20	2	0	0	0	0	0	0	0	0	0	0	129
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	18
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Jack Pine	0	0	0	0	277	0	56	15	0	0	0	0	0	0	0	0	0	0	348
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	0	0	77	0	0	0	0	0	0	0	0	77
Lowland Mixed Forest	0	0	0	0	0	0	68	0	0	0	0	0	0	0	0	0	0	14	82
Lowland Shrub	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Natural Mixed Pines	0	0	0	0	0	0	0	17	0	0	7	0	0	0	0	0	0	0	24
Red Pine	0	0	0	0	0	0	11	31	0	16	0	0	0	0	0	0	0	0	58
Sand, Soil	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Tamarack	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	52
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	6	18
White Pine	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
<b>Total</b>	<b>154</b>	<b>79</b>	<b>8</b>	<b>0</b>	<b>277</b>	<b>28</b>	<b>174</b>	<b>65</b>	<b>0</b>	<b>157</b>	<b>7</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>985</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 287

Total Compartment Acres: 984

Commercial Harvest - 102  
 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
Aspen	29	0	0	0	0	0	0	0	0	29
Jack Pine	51	0	0	15	0	0	0	0	0	65
Lowland Aspen/Balsam Poplar	8	0	0	0	0	0	0	0	0	8
<b>Total</b>	<b>88</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>102</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	102	0	0	0	0	62	0	77		241
Next Step	0	0	0	0	0	102	0	0		102
<b>Total</b>	<b>102</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>164</b>	<b>0</b>	<b>77</b>		<b>343</b>



S t a n d	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:**

1	72287001-Cut	36.0	42220 - Natural Jack Pine	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	4132 - Aspen, Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all stems &gt;2"DBH. Retain all red pine. Include grouse log spec and snowmobile trail specs. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with Jack and red pine for a moderately stocked stand. <u>Regen:</u></p> <p><u>Other</u> Contact the PRD Trails Specialist, FRD Fire Supervisor, and the Snowmobile clubs to mark stumps that are close to the snowmobile trail. <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>											
4	72287004-Cut	14.8	42220 - Natural Jack Pine	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	4132 - Aspen, Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all stems &gt;2"DBH. Retain all red pine. Include grouse log spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with Jack and red pine for a moderately stocked stand. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>											
22	72287022-Cut	20.3	4136 - Aspen, Mixed Conifer	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems &gt;2"DBH. Standard retention. Include grouse log spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Moderately stocked aspen. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</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
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<b>24</b>	<b>72287024-Cut</b>	14.6	42220 - Natural Jack Pine	Poletimber Well	62	51-80	Harvest	Seed Tree	42290 - Natural Mixed Pine	Two-Aged	No
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Prescription Harvest all jack pine, aspen, and northern pin oak >2"DBH. Include Snowmobile trail specs.  
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Low to moderately stocked jack and red pine.  
Regen:

Other Contact the PRD Trails Specialist, FRD Fire Supervisor, and the Snowmobile clubs to mark stumps that are close to the snowmobile trail.  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

<b>33</b>	<b>72287033-Monitor</b>	61.7	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Monitor natural regen.  
Specs:

Next Step  
Treatments:

Acceptable Will accept a low stocking of mixed lowland conifer and lowland shrub.  
Regen:

Other Some conifer regen observed during previous inventory. Most was under 2' tall. (Spring 2022)  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2032

<b>43</b>	<b>72287043-Cut</b>	8.3	6112 - Lowland Aspen	Poletimber Medium	41	1-50	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
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Prescription Harvest all stems >2"DBH. No retention due to stand size. Include drumming log spec.  
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Aspen with fir  
Regen:

Other  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

<b>51</b>	<b>72287051-Cut</b>	8.3	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Harvest all stems >2"DBH. Marked thinning through small red pine inclusion. Include grouse log spec and snowmobile trail specs.  
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Fully stocked aspen with minor components of oak and jack pine.  
Regen:

Other Stand includes approximately half an acre of red pine. Contact the PRD Trails Specialist, FRD Fire Supervisor, and the Snowmobile clubs to mark stumps that are close to the snowmobile trail.  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2023





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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
54 72287054-NF	76.8	6124 - Lowland Spruce-Fir	Poletimber Well	82	111-140	NonForestMgt	Brushpile/Woody Debris Creation	612 - Lowland Coniferous Forest	Uneven-Aged	No
<p><u>Prescription Specs:</u> WLD will create horizontal cover for snowshoe hare within this stand by hinge cutting and dropping conifer species(primarily black spruce and balsam fir) except cedar. This horizontal cover work will be focused primarily along the stand's edge and around canopy gaps.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

**Total Treatment Acreage Proposed: 240.8**



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 287  
Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
129	118	0	11

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions				
						5C	2F	2G	3E	5E
129	118	0	0	11	Aspen				6	5
18	0	0	0	18	Cedar			18		
10	10	0	0	0	Herbaceous Openland					
347	347	0	0	0	Jack Pine		0			0
5	0	0	0	5	Low-Density Trees		5			
8	8	0	0	0	Lowland Aspen/Balsam Poplar					
77	1	0	0	76	Lowland Conifers			76		
82	68	0	0	14	Lowland Mixed Forest			14		0
120	116	0	0	4	Lowland Shrub			0		4
12	0	0	0	12	Lowland Spruce/Fir			12		
2	2	0	0	0	Marsh					
24	24	0	0	0	Natural Mixed Pines					
57	41	15	0	0	Red Pine	15				0
12	12	0	0	0	Sand, Soil					
52	0	0	0	52	Tamarack			52		
4	4	0	0	0	Treed Bog			0		
18	18	0	0	0	Upland Conifers					
7	7	0	0	0	White Pine					
984	776	15	0	193	Total Forested Acres	15	5	173	6	9
	79%	2%	0%	20%	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	2G: Too wet (sensitive soils, does not include access issues)	163	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 287  
Year of Entry: 2024

2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							





Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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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	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
1	42220 - Natural Jack Pine	Poletimber Well	36.0	51	51-80	N/A	Jack pine pole std mixed with oak and cherry with a few pockets of aspen. Red pine sawtimber and pole timber scattered throughout east portion of the stand Pockets of young pole size aspen within sd along with some pole size 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>Red Pine</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>75</td> <td>Pole</td> <td>7</td> <td>51</td> </tr> <tr> <td>Northern Pin Oak</td> <td>5</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	10	Log/Pole	12		Jack Pine	75	Pole	7	51	Northern Pin Oak	5	Sapling/Pole	4		Bigtooth Aspen	10	Pole	7		<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>Jack Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Oak (spp.)</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Cherry (spp.)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Low	Variable	Sapling	Oak (spp.)	Low	Variable	Sapling	Cherry (spp.)	Low	5 - 10 feet	Sapling	Red Maple	Low	Variable	Sapling	Red Pine	Low	Variable	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Red Pine	10	Log/Pole	12																																																						
Jack Pine	75	Pole	7	51																																																					
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Red Maple	Low	Variable	Sapling																																																						
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2	42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	6.8	91	51-80	N/A	Mixed semi open stand. Large Red pine on perimeter and scattered within. A couple of pockets of young Jack pine poles and a couple of pockets of young and older aspen. Oak scattered throughout and the remaining patches of upland brush and grasses. Snowmobile trail and Midland to Mackinac trail traverses through std. Old two track traverses south out of std.																																																		
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4	42220 - Natural Jack Pine	Poletimber Well	14.8	51	81-110	N/A	Jack pine pole stand. Dense Jack pine in east and south portion of the stand with scattered aspen throughout. North west portion of the stand is more on the upland brush side with open grown and younger Jack pine scattered with aspen, but more dominantly with cherry shrub openings.																																																		
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5	6220 - Alder/willow	Nonstocked	2.6			No	Swampy tag alder pockets.																																																		
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6	42220 - Natural Jack Pine	Poletimber Well	5.3	51	51-80	N/A	Jack pine stand mixed with Aspen, Oak and Red pine. Minor associate species are slightly older than the jack pine.																																																																			
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7	4130 - Aspen	Sapling Well	72.4	7	Immature	N/A	Stand harvested in July 2015 under contract 72-011-14-01. Has regenerate well to an aspen stand with minor components of jack pine, cherry, and maple.																																																																			
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10	42210 - Natural Red Pine	Sawtimber Well	10.6	52	111-140	N/A	Parent stand of stand 53. Western portion of stand (now stand 53) was harvested (2015).  Red pine std mixed with hardwoods. Aspen, Red maple and some oak scattered within the stand. Snowmobile trail and Midland to Mackinac trail traverses through stand.																																																																			
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11	710 - Sand, Soil	Nonstocked	6.3			No	Thunder Mug County Road - gravel/good dirt road.																																																																			
13	6130 - Fir, Aspen, Maple	Poletimber Well	68.3	50	81-110	N/A	Lowland Aspen stand (Quaking) mixed with Balsam fir and black spruce. Scattered Red pine in clumps and throughout the std. Pockets of high ground inter mixed with low areas of Fir/Spruce and tag alder. Couple of areas of med. White pine understory and Jack pine understory(north). Aspen with in stand was cut about the same time as that of upland Aspen stands within comp. Stand borders a private 40 and mixed conifer swamp in south.																																																																			
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14	42210 - Natural Red Pine	Sawtimber Medium	30.6	62	51-80	N/A	A few relic red pine x-log scattered throughout. The majority of the red pine saw log is in the low 60's y/o. Pine regen is continuing to fill in the gaps with more oak to the south.																																																																					
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15	4132 - Aspen, Jack Pine	Poletimber Well	6.0	46	51-80	N/A	Aspen(quaking)/Jack pine stand mixed with some Oak, Red and White pine and cherry brush. Narrow strip between private to the west and Thunder Mug rd to the east. Larger trees in the north and slowly getting smaller in height to the south. More upland brush to the south.																																																																					
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17	4130 - Aspen	Sawtimber Well	2.3	60	81-110	N/A	Long term retention from stand 7 which was harvested in July 2015 under contract 72-011-14-01. Contains 3 distinct ephemeral ponds.																																																																					
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18	42290 - Natural Mixed Pine	Poletimber Well	16.9	65	51-80	N/A	Stand is a mix of Quaking aspen, Jack pine and White pine. Also includes some balsam fir, spruce and large diameter super canopy red pine and White pine. Two track trail traverses through the stand. Also portions of stand border Thunder Mug Rd. Split out aspen component and merged with stand 22.																																																																					
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19	6122 - Black Spruce	Poletimber Well	9.7	82	1-50	N/A	Lowland Spruce/fir. Very wet.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
21	6120 - Lowland Cedar	Poletimber Well	7.9	114	81-110	N/A	Lowland cedar stand dominated by northern white cedar with scattered black spruce and balsam fir throughout it. Stand is very wet. Ground cover is mossy hummocks surrounded by water. Some leatherleaf and tag alder in understory with black spruce and balsam fir seedlings and saplings. Mostly pole timber, but some small sawlog size cedar.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	10	Pole/Sapling	6		Tag Alder	Low		Variable	Tall Shrub
Black Spruce	20	Pole/Sapling	6		Black Spruce	Medium		Variable	Sapling
Northern White Cedar	70	Pole/Sap/Log	6	114	Balsam Fir	Medium	Variable	Sapling	
22	4136 - Aspen, Mixed Conifer	Poletimber Well	20.3	53	51-80	N/A	Split out aspen from MC stand 18.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Quaking Aspen	76	Pole	7	53	Red Maple	Low	Variable	Sapling	
Balsam Fir	10	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling	
Black Spruce	5	Pole/Sapling	6		White Pine	Low	Variable	Sapling	
White Pine	3	Log/XLog/Pole	16						
Red Pine	3	XLog/Log	16						
Red Maple	3	Pole/Sapling	6						
23	6229 - Mixed lowland shrub	Nonstocked	15.5			No	Stand is predominantly tag alder with scattered cedar, spruce, and tamarack. Very wet. Stand borders private to the north and south.		
Sub-Canopy Species	Density	Avg. Height	Size						
Black Spruce	Low		Sapling						
Tamarack	Trace		Sapling						
Northern White Cedar	Trace		Sapling						
Tag Alder	Full		Tall Shrub						
24	42220 - Natural Jack Pine	Poletimber Well	14.6	62	51-80	N/A	Jack pine pole with scattered log sized red pine. A trace amount of white oak, Balsam fir, and spruce. Jack pine cores ranged from 58 to 96 with most around the low 60's.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Quaking Aspen	5	Pole	6		Balsam Fir	Low	Variable	Sapling	
Red Pine	15	Log	12		Black Spruce	Low	Variable	Sapling	
Jack Pine	80	Pole/Log/Sap	6	62	Red Pine	Low	Variable	Sapling	
					Jack Pine	Medium	Variable	Sapling	
					Aspen (spp.)	Low	Variable	Sapling	
					Cherry (spp.)	Medium	Variable	Sapling	
26	6230 - Cattail	Nonstocked	2.5			No	Open grassy wetland.		
27	6120 - Lowland Cedar	Poletimber Well	10.6	114	51-80	N/A	Lowland cedar std that is wetter and less dense than adjacent cedar std. Std consists of cedar, blk spruce and some tamarack. Trees are on mucks surrounded by water, marsh grasses and some tag alder. Humks consist of single trees and up to 4 or 5 trees. Deer yard in winter. Very wet. Recommend no treatment. Balsam fir drops out of std or is very little in coverage.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Northern White Cedar	75	Pole/Log	8	114	Tag Alder	Low	Variable	Tall Shrub	
Black Spruce	15	Pole/Sapling	6		Leatherleaf	Low	Variable	Tall Shrub	
Tamarack	10	Pole/Sapling	6						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	6122 - Black Spruce	Poletimber Well	2.5	82	1-50	N/A	No access. Slightly more trees than surrounding stands.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Pine		3	XLog/Log	16		Balsam Fir	
Balsam Fir		30	Pole/Sapling	7		Balsam Fir	
Black Spruce		64	Pole/Sapling	7	82	Black Spruce	
Northern White Cedar		3	Pole	6		Black Spruce	
						White Pine	
						Density	
						Avg. Height	
						Size	
29	6121 - Tamarack	Poletimber Medium	51.8	82	51-80	N/A	Tamarack/spruce bog
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Fir		5	Pole/Sapling	5		Tag Alder	
Northern White Cedar		15	Log/Pole	10			
Tamarack		80	Pole	6	82		
						Density	
						Avg. Height	
						Size	
30	6229 - Mixed lowland shrub	Nonstocked	37.0			No	Mixed lowland shrub swamp. Stand is predominantly tag alder with some scattered cedar, tamarack and black spruce. Very wet.
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Black Spruce		Trace	10 - 20 feet	Sapling			
Tag Alder		Full	5 - 10 feet	Tall Shrub			
Northern White Cedar		Trace	10 - 20 feet	Pole			
Tamarack		Trace	10 - 20 feet	Sapling			
31	4130 - Aspen	Sapling Medium	7.8	14	Immature	N/A	Immature Aspen stand (Quaking). Harvested under contract 720240601. Aspen regenerating fine, meets regen goals.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine		3	Pole/Sapling	6			
Pin Cherry		12	Sapling	1			
Black Spruce		3	Sapling	1			
Quaking Aspen		82	Sapling	1	14		
33	6229 - Mixed lowland shrub	Nonstocked	61.7	0	Unspecified	6124 - Lowland Spruce-Fir	Stand was harvested under contract 72-008-14, Snowshoe Spruce. Stand has 3 retention islands and 1 boundary exclusion. Retention Island data would be reflected in stand 54. Stand was split with and retained old number, southern portion is now stand 54.  Mixed lowland conifer swamp. Primarily Black Spruce mixed with Cedar, Tamarack and Balsam fir. No treatment recommended, unless theres a way to cut a large patch with wildlife div. okay. Stand is a deer yard.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
34	6139 - Mixed Lowland Forest	Poletimber Medium	14.1	70	1-50	N/A	Lowland spruce/fir with offsite red maple of low quality occurring on micro topography. trace amounts of quaking aspen, Balsam poplar, and paper birch. Dry canopy openings are dominated by bracken fern and club moss with trace amounts of Spruce regen. Wet canopy openings are dominated by tag alder and sedges with low amounts of spruce/fir regen. Ephemeral ponds scattered throughout.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		50	Pole/Sap/Log	6	70	Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Red Maple		40	Log	14		Bracken Fern		Full	Unspecified	Non-Wood	
Balsam Poplar		1	Pole/Sapling	6							
Paper Birch		5	Pole	8							
Northern White Cedar		2	Log/Pole	10							
Quaking Aspen		2	Pole	6							
36	4132 - Aspen, Jack Pine	Poletimber Medium	5.6	41		N/A	A young strip of Quaking Aspen mixed with Jack pine and cherry brush between lowland spruce/fir std and planted KW Jack pine stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		60	Pole/Sapling	5	41	Balsam Fir		Low	Variable	Sapling	
Balsam Fir		3	Sapling/Pole	3		Jack Pine		Low	Variable	Sapling	
Jack Pine		30	Pole/Sapling	4		Cherry (spp.)		Medium	Variable	Tall Shrub	
Pin Cherry		7	Sapling	3							
39	6224 - Treed Bog	Nonstocked	3.6		Immature	No	Treed bog with tag ader. A trace mix of conifers. Some cedar, black spruce, tamerack, white pine, and quaking aspen. Tree speices occur on hammocks surrounded by leather leaf, tag ader and marsh grasses. Standing water.				
Sub-Canopy Species		Density	Avg. Height	Size							
Balsam Fir		Trace	5 - 10 feet	Sapling							
White Pine		Trace	5 - 10 feet	Sapling							
Black Spruce		Trace	10 - 20 feet	Sapling							
Tag Alder		Full	5 - 10 feet	Tall Shrub							
41	3105 - Mixed Upland Herbaceous	Nonstocked	9.9			No	Cleared powerline. Easement across state land. Mostly on high ground, but a few pockets of low ground. Right of way maintained by power company.				
Sub-Canopy Species		Density	Avg. Height	Size							
Black Spruce		Trace	< 5 feet	Seeding							
43	6112 - Lowland Aspen	Poletimber Medium	8.3	41	1-50	N/A	Lowland Aspen std mixed with some spruce and balsam fir. Patches and scattered spruce and balsam fir in understory. Ground is higher than surrounding ground. Heavy bracken fern associated with aspen cover.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		3	Log	15		Balsam Fir		Medium	Variable	Sapling	
Balsam Fir		3	Sapling/Pole	3		Cherry (spp.)		Low	Variable	Tall Shrub	
White Pine		3	Log	12		Red Pine		Low	Variable	Sapling	
Black Cherry		3	Sapling/Pole	4		Black Spruce		Low	Variable	Sapling	
Black Spruce		5	Pole/Sapling	5							
Quaking Aspen		83	Pole	5	41						





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<b>44</b>	42120 - Planted Jack Pine	Sapling Well	276.6	33	Immature	N/A	Large Jack pine plantation. Planted for Kirland Warbler. Not diamond weave. Sapling stand starting to reach small pole size. Scattered Oak, Aspen and cherry brush(shrub) throughout stand. Snowmobile trail traverses through stand along with portions of Walsh road and utility row.																																																					
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<b>45</b>	429 - Mixed Upland Conifers	Poletimber Medium	6.2	50	1-50	N/A	Mostly upland with some low ground. 20-30 y/o Aspen clone along snowmobile trail and Jack pine on higher ground and Black Spruce, Balsam Fir and some Jack Pine all of varying ages in the low areas of the stand. Stand is a narrow strip between powerline and KW plantation.																																																					
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<b>47</b>	710 - Sand, Soil	Nonstocked	1.4			No	Townline Road																																																					
<b>48</b>	42210 - Natural Red Pine	Sawtimber Medium	15.5	85	51-80	N/A	Was last harvested under contract 720219401. All Jack pine was cut. 4-6 inch Jack pine now recruiting into some larger pole and more Jack pine has recruited in as saplings. Some scattered Oak saplings as well as pockets of aspen along the north side. Aspen pockets where cut when Aspen in compartment to north was cut. East side of std borders private and south side borders Townline Rd.																																																					
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<b>49</b>	710 - Sand, Soil	Nonstocked	4.5			No	Stand swapped from Forested to Non-Forested. Walsh Road - County road - gravel.																																																					
<b>50</b>	330 - Low-Density Trees	Nonstocked	4.5	0		No	Over mature Aspen/Oak stand on steep slope and sloping into Middle Branch of Big Creek. Held as a buffer to the Middle Branch Of Big Creek (trout stream). Limited factor for slope steepness and BMP's. Aspen deteriorating and dying (mostly Quaking). Recommend no treatment and limit factor as before.																																																					
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<b>51</b>	4130 - Aspen	Poletimber Well	8.3	49	81-110	N/A	<p>This stand was part of stand 7 to the south, this part of the stand was not harvested. Data was copied over and stand was not visited, should be looked at next inventory cycle.</p> <p>Old Comment: Upland Aspen std mixed with scattered Red pine. Both Bigtooth and Quaking aspen within std. Some low areas within std. Understory includes some Red and White pine, Balsam fir/spruce, Red maple, Cherry and a little bit of Oak. North end borders snowmobile trail and Midland to Mackinac trail and a portion to the west Thunder mug rd. Std was last harvested about the same time as the lowland Aspen in comp.</p>																																																																	
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<b>52</b>	622 - Lowland Shrub	Nonstocked	3.2	0		No	Kettle ponds and seeps. Tag Alder, cattail, and laurel with standing water.																																																																	
<b>54</b>	6124 - Lowland Spruce-Fir	Poletimber Well	77.0	82	111-140	N/A	<p>Mixed lowland conifer swamp. Primarily Black Spruce mixed with Cedar, Tamerack and Balsam fir. A few small pockets of xlog white pine on the SW edge. Stand was renumbered after being split off from stand 33 that was harvested under contract 72-008-14.</p>																																																																	
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<b>55</b>	42200 - Natural White Pine	Poletimber Well	6.7	53	81-110	N/A	<p>Fairly dense white pine stand with evidence of fire history. Aspen starts to mix in towards the south as the canopy opens up slightly. Split out hill side seep and pond on the north end.</p>																																																																	
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<b>57</b>	429 - Mixed Upland Conifers	Poletimber Well	11.5	50	51-80	N/A	<p>Mixed stand of balsam fir, white pine, red pine, aspen, and maple. Some grassy openings with bracken fern. Stand is split by a lowland swale.</p>																																																																	
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