



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72211

Entry Year 2023

Acreage: 1,065

County Crawford

Management Area: Grayling Ice Contact

**Revision Date:** 2021-02-23

**Stand Examiner:** Scott McClarren

### Legal Description:

T28N R04W Sec 22 and Sec 23  
Fredric Township

### Identified Planning Goals:

To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management.

### Soil and topography:

Flat to rolling topography with areas of steep river valley slopes. Feldhauser, Graycalm, and Rubicon loamy sands are present in the uplands. Tawas/Lupton mucks are found in the lowlands.

Bradford Creek and Kolka Creek merge together into the Au Sable River. The Au Sable River Valley runs through the east half of the compartment. This is a broad valley that slopes upward to the east and to the west with some slopes becoming steep.

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

Private parcels can be found to the south, southwest, and east of this compartment. There is oil and Antrim gas development found throughout the area.

### Unique Natural Features:

Kolka Creek, Bradford Creek and the headwaters of the Main Branch of the AuSable River are in the Compartment. All creeks and the AuSable River are designated Natural Rivers.

### Archeological, Historical, and Cultural Features:

Evidence of historic occurrence is found in the Compartment.

### Special Management Designations or Considerations:

Kolka Creek, Bradford Creek and the headwaters of the Main Branch of the AuSable River are in the Compartment. Kolka Creek and the AuSable River are both "designated natural rivers". Natural rivers are considered High Conservation Value Areas (HCVA).

### Watershed and Fisheries Considerations:

Kolka Creek, Bradford Creek and the headwaters of the Main Branch of the AuSable River are in the Compartment. A sand trap is located on Kolka Creek just upstream from the headwaters of the Main Branch of the AuSable River. The river system is designated as a Natural River.

### Wildlife Habitat Considerations:

Promote the expansion of aspen and oak cover types. Protect mast producing shrubs whenever possible. Efforts should be made to enhance dead and down woody debris and standing snags.

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

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is in the northeast corner of Section 23 and potential is thought to be good, especially the upland areas. The State land is leased and has been developed for Antrim Shale gas. There is also Guelph (Niagaran) reef production in this compartment and additional potential for reefs is possible.

### Vehicle Access:

The Compartment is accessed by Old U. S. 27, Kolka Creek Road and Deward Road. The area between Kolka Creek and Bradford Creek is not accessible. This area consists of 93 acres of mostly lowland species. Stream crossing permits would need to be obtained for access.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Dispersed recreation occurs throughout the area. Snowmobile trails #7 and #679 run through the compartment

**Fire Protection:**

The majority of the compartment is upland hardwood. Access for fire suppression is good with the exception of the land located between the two creeks.

**Additional Compartment Information:**

Historical harvests: in 1960-1961, there were several black cherry salvage harvests for fuelwood across entire section 22.

There were a few harvests that were supposed to happen back in the mid 1960s but never came to fruition because the permittee fell ill. One was a remove all merchantable aspen from (what is now) the south portion of stand 23. The other was a black cherry removal for fuelwood across the entirety of section 22 (minus the SE1/4 of SE1/4).

Survey notes from 1930-1940 summed up: Land rolling, 2nd to 3rd rate sandy soil throughout. Timber: Sugar, white pine, hemlock, beech, birch, elm, lynn (basswood), ironwood. In the wetter areas: yellow birch, cedar, balsam, swamp spruce. West side of compartment is remarked as having good soil.

Aerial photos from 1938 show north portions with very low density of trees (stands 4, 7, 10, 11, 13) , and areas just east and west of Old 27 (now stands 44, 43, 47, 49) void of trees as well. There was also a definite hole in stand 14 that has since filled in.

Aerial photos from 1952 show the open water in stand 14 is gone now. Also shows stand 21 was more open in the past, especially in the north.

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

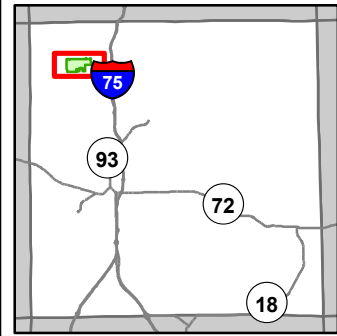
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

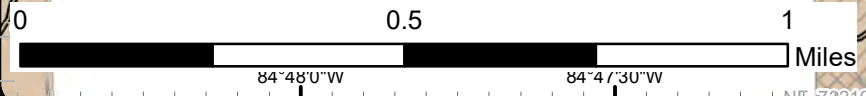
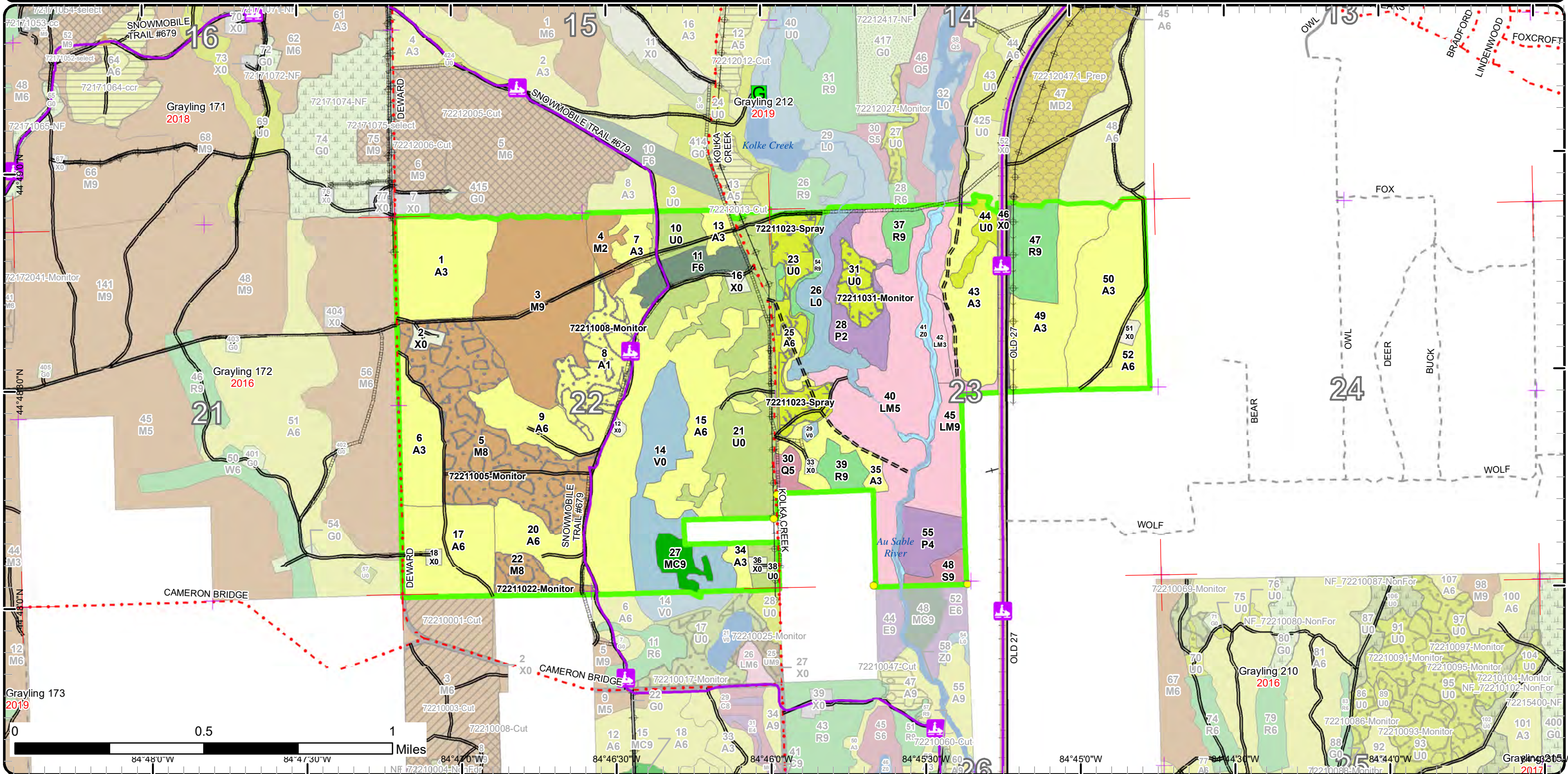
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 211  
 T28N, R04W, Sec: 22-23  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Grayling Ice Contact  
 YOE: 2023  
 Acres: 1064.7 GIS Calculated  
 Examiner: Scott McClarren  
 Map Revised: 9/1/2021  
 Map Phase: Review



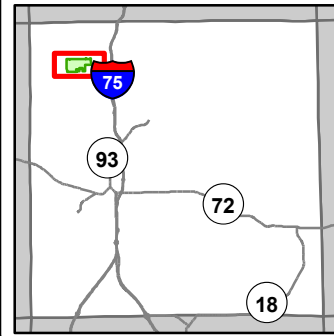
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Berms
- Gate
- Intermittent Pond
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Pesticide
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparingly Vegetated



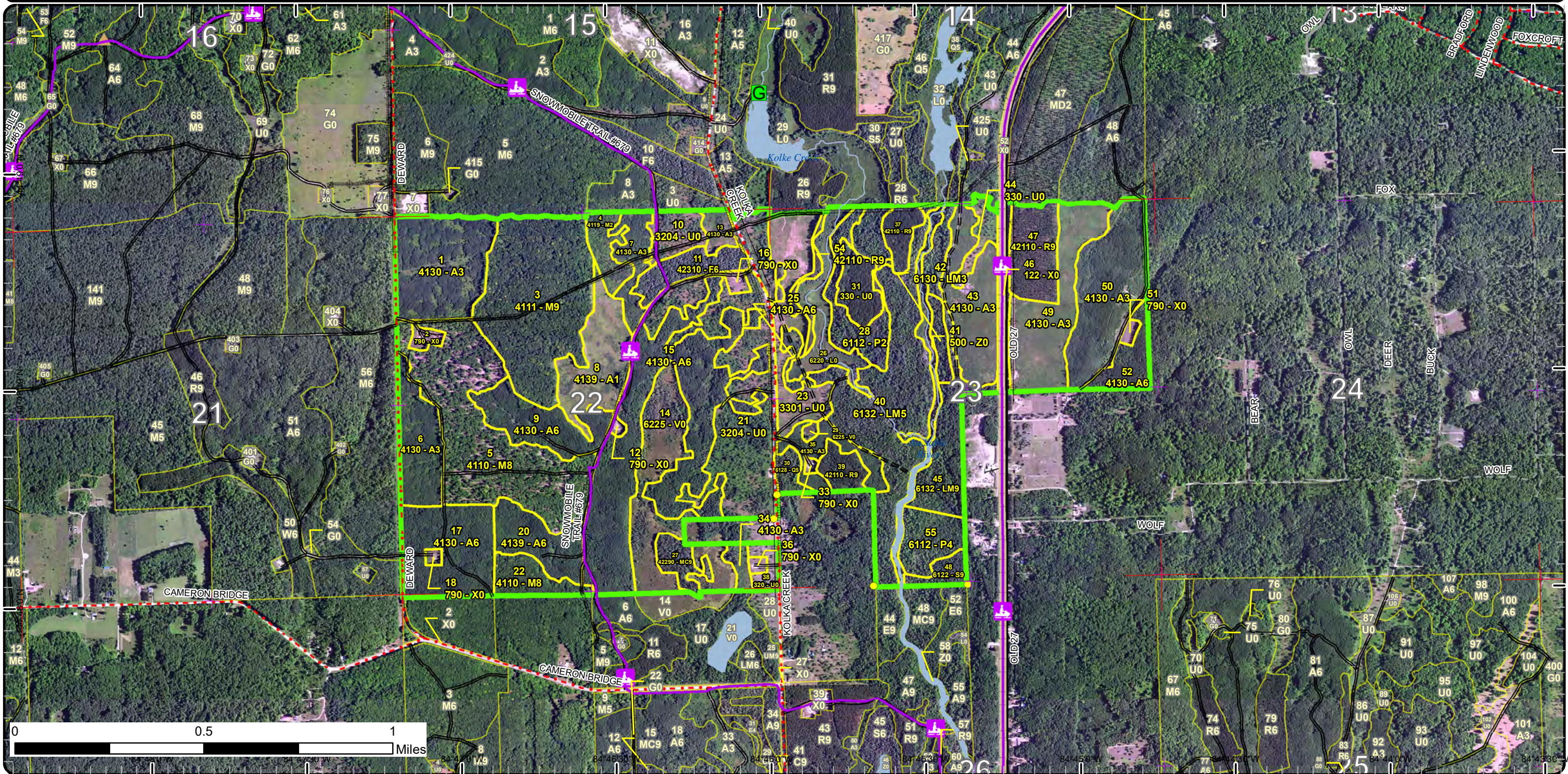
84°48'0"W 84°47'30"W 84°47'0"W 84°46'30"W 84°46'0"W 84°45'30"W 84°45'0"W 84°44'30"W 84°44'0"W

# Stand Boundary Map

Compartment: 211  
 T28N, R04W, Sec: 22-23  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Grayling Ice Contact  
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 Map Revised: 9/1/2021  
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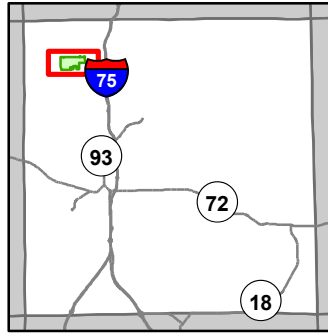


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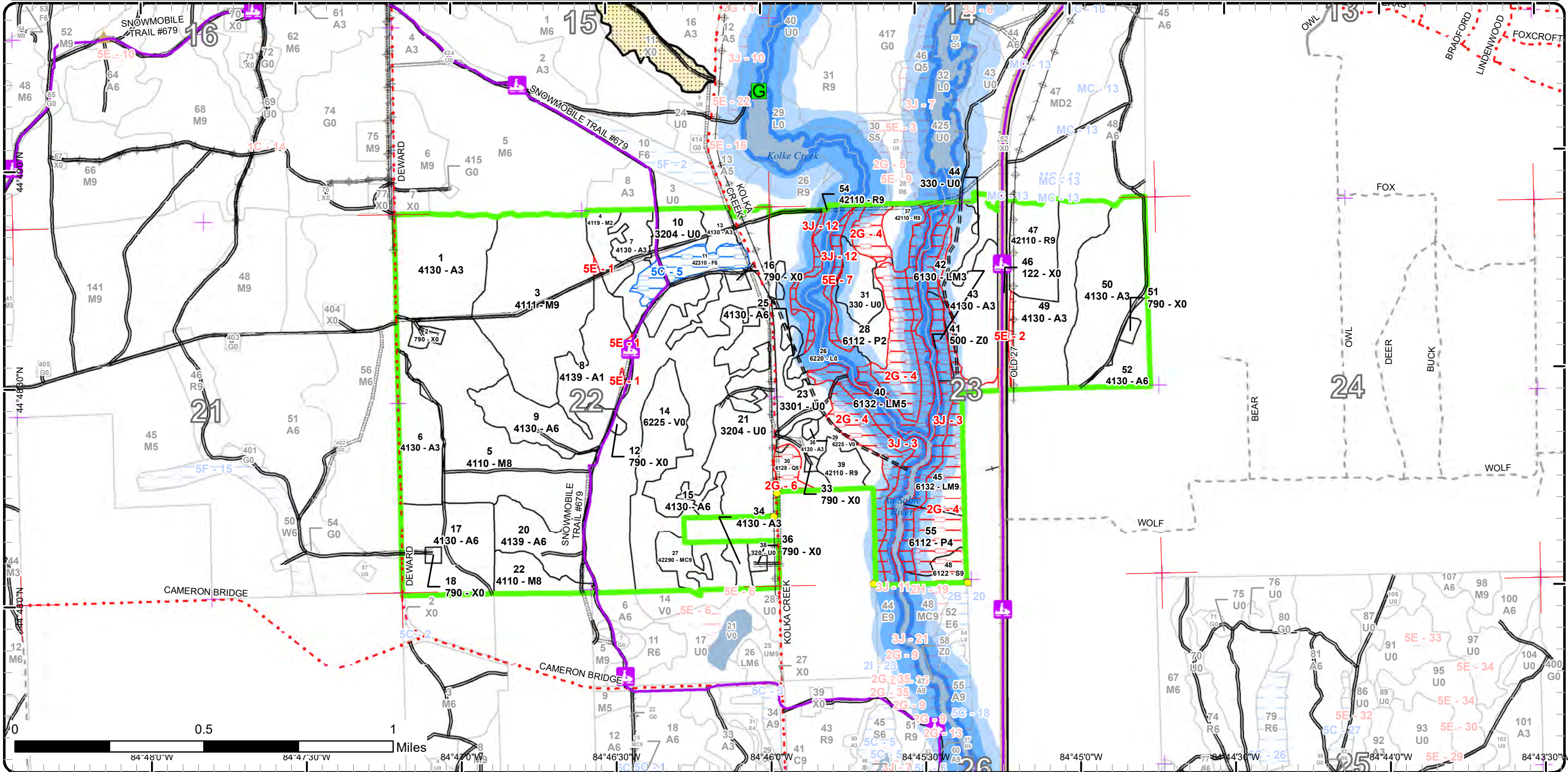


# Special Conservation Areas

Compartment: 211  
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 County: Crawford  
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- Designated RailTrail
- ▲ Berms
- G Gate
- Intermittent Pond
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Sand or Gravel Pit



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	108	134	49	142	0	0	0	0	0	0	0	0	0	0	0	0	0	433
Bare/Sparsely Vegetated	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Bog	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Low-Density Trees	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Lowland Aspen/Balsam Poplar	0	17	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Lowland Mixed Forest	0	0	0	0	6	0	0	0	0	0	32	0	77	0	0	0	0	0	114
Lowland Shrub	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Natural Mixed Pines	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	10	0	0	0	0	0	0	167	0	0	0	0	0	0	0	0	177
Red Pine	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	41
Upland Shrub	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Upland Spruce/Fir	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	14
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
<b>Total</b>	<b>235</b>	<b>125</b>	<b>144</b>	<b>49</b>	<b>163</b>	<b>0</b>	<b>14</b>	<b>49</b>	<b>5</b>	<b>167</b>	<b>38</b>	<b>0</b>	<b>77</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1065</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 211

Total Compartment Acres: 1,065

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

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
<b>Current</b>	0	0	0	0	0	24	131	0	0	<b>155</b>
<b>Next Step</b>	0	29	29	0	0	0	24	0	0	<b>81</b>
<b>Total</b>	<b>0</b>	<b>29</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>155</b>	<b>0</b>	<b>0</b>	<b>237</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>5</b>	<b>72211005-Monitor</b>	79.5	4110 - Sugar Maple Association	Sawtimber Medium	85	51-80	Monitoring	Natural Regen (Re-Inventory)	4111 - S.Maple, Hard Mast Association	Two-Aged	No
<p><u>Prescription</u> check regen  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Sugar Maple  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2030</p>											

<b>8</b>	<b>72211008-Monitor</b>	28.5	4139 - Aspen, Mixed Deciduous	Sapling Poor	7	Immature	Monitoring	Natural Regen (Re-Inventory)	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u>  <u>Specs:</u>  <u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant  <u>Treatments:</u>  <u>Acceptable</u> Management objective is a mixed deciduous stand dominated by aspen. Moderate to fully stocked. If natural regen fails plant failed portions to red pine.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2030</p>											

<b>22</b>	<b>72211022-Monitor</b>	11.8	4110 - Sugar Maple Association	Sawtimber Medium	85	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Two-Aged	No
<p><u>Prescription</u>  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Sugar Maple  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2030</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>23 72211023-Spray</b>	24.2	3301 - Low Density Deciduous Trees	Nonstocked			Pesticide	ERROR	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Variance approved 8-4-16 to allow use of herbicide.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Herbicide Use  <u>Treatments:</u>  <u>Acceptable</u> planted RP  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>31 72211031-Monitor</b>	11.4	330 - Low-Density Trees	Nonstocked		Immature	Monitoring	Natural Regen (Re-Inventory)	4113 - R.Maple, Conifer	Even-Aged	No
<p><u>Prescription</u>  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> A red maple/mixed conifer stand is the management objective, a moderate to fully stocked stand with these components is acceptable.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2030</p>										

**Total Treatment** 155.4  
**Acres Proposed:**

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren : Examiner

Compartment: 211  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	2G	3J	5E
433	430	0	3	Aspen		0		3
11	11	0	0	Bare/Sparsely Vegetated				
43	43	0	0	Bog				
47	47	0	0	Low-Density Trees			0	0
32	12	0	20	Lowland Aspen/Balsam Poplar		12	8	0
5	0	0	5	Lowland Conifers		5		
114	0	0	114	Lowland Mixed Forest		64	50	
20	20	0	0	Lowland Shrub				
6	0	0	6	Lowland Spruce/Fir		5	1	
8	8	0	0	Natural Mixed Pines				
177	177	0	0	Northern Hardwood				0
41	38	0	4	Red Pine			4	
90	90	0	0	Upland Shrub		0		
14	0	14	0	Upland Spruce/Fir	14			
10	10	0	0	Urban				
13	13	0	0	Water			0	
1,065	900	14	151	Total Forested Acres	14	86	62	3
	85%	1%	14%	Relative Percent				

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention for harvest 72-027-13-01, Steriodless Aspen							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren : Examiner

Compartment: 211  
Year of Entry: 2023

3	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	54	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural river and tributaries vegetative buffer.							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	81	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	9	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
<b>Comments</b>				



**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	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. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
1	4130 - Aspen	Sapling Well	42.0	17	1-50	N/A	Payment Units 3 and 4 of Deward Road Hardwoods, 72-028-03. Clearcut in 2004. Previously an M6 stand. Changed from A2 to A3. Dense aspen with high sugar maple subcanopy. About 5 acres of stand consist of scattered openings that failed to regenerate and are full of raspberry/blackberry and occasional sugar maple.																																																					
<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>Sugar Maple</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>25</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>70</td> <td>Sapling/Pole</td> <td>4</td> <td>17</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	5	Sapling	3		Quaking Aspen	25	Sapling	4		Bigtooth Aspen	70	Sapling/Pole	4	17	<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>Sugar Maple</td> <td>High</td> <td>&gt;20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Basswood</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	High	>20 feet	Sapling	Beech	Low	5 - 10 feet	Sapling	Ironwood	Low	10 - 20 feet	Sapling	Basswood	Trace	Variable	Sapling	Blackberry/Raspberry	High	5 - 10 feet	Tall Shrub										
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2	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.9				Two well sites side by side. H2S gas.																																																					
3	4111 - S.Maple, Hard Mast Association	Sawtimber Well	74.9	85	81-110	N/A	Healthy hardwood stand. Rolling topography throughout. Ba is right around 80-90 most places. There's decent maple component in parts of subcanopy but, deer are keeping most of it below 5'. Subcanopy is mostly ironwood and beech. Crew Hardwoods 72-064-04, thinned in 2010; mark to cut. 13 acres of this stand thinned for fuelwood in 1983 as 72-048-83, 32 acres thinned for fuelwood in 1983 as 72-051-83, 16 acres thinned for fuelwood in 1983 as 72-040-83.																																																					
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4	4119 - Mixed Northern Hardwoods	Sapling Medium	9.9	17	Immature	N/A	Stand initially regenerated to mostly ironwood and cherry but, sugar maple is starting to recruit above browse height in a lot of places and should out compete the less desirable species eventually. Some open areas scattered through stand. Old comments- Payment Unit 1 of Deward Road Hardwoods, 72-028-03. Clearcut in 2004. Appears to have regenerated differently than the east half (stand 7). Previously a mature aspen stand.																																																					
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5	4110 - Sugar Maple Association	Sawtimber Medium	80.5	85	51-80	N/A	Harvested in 2015 under 72-026-13-01, Lots of Beech. Lots of Beech was part of an ash and beech harvest initiative; all beech, aspen, basswood, and ash were removed, which left about 50 BA of sugar maple. Heavy beech and ironwood component in sub-canopy following harvest. Trace amounts of sugar maple found in a couple spots. Stand is healthy but, did not meet regeneration objective this year of entry.																																																					
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6	4130 - Aspen	Sapling Well	23.4	17	Immature	N/A	Payment Unit 2 of Deward Road Hardwoods, 72-028-03. Clearcut in 2004. Previously an M6. Buried cable adjacent to Deward Rd. Good sugar maple component in sub-canopy.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
7	4130 - Aspen	Sapling Well	12.7	17	Immature	N/A	Aspen has high to full sugar maple in subcanopy throughout stand. Dense deciduous shrubs in subcanopy as well. Old comments- Payment Unit 1 of Deward Road Hardwoods, 72-028-03. Clearcut in 2004. More aspen regeneration in the east half than the west (stand 4).																																																			
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8	4139 - Aspen, Mixed Deciduous	Sapling Poor	28.9	7	Immature	N/A	Squatched Between Hwd & Aspen; Payment Unit 1. Clearcut in 2014. 72-028-13. Stand has some areas that regenerated to well stocked aspen but, also has a large portion that is open with heavy browse. Open areas are mostly ironwood, raspberry/blackberry, beech, and heavily browsed sugar maple. Some sugar maple in stand has made it above browse height. Snowmobile trail runs along part of east boundary.  Old comment- Rolling topo.																																																			
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9	4130 - Aspen	Poletimber Well	24.7	27	1-50	N/A	Aspen with a nice mix of northern hardwoods. Sugar maple is still sap size and is suppressed under aspen in high density through stand. Some steep slopes present. Unit 1 of Aspen Valley Blocks, 72-043-93, clearcut in 1994.																																																			
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10	3204 - Mast Producing Shrub	Nonstocked	20.5		Immature	No	Open cherry brush with hawthorn, serviceberry, and witch hazel. Scattered spruce 5-10 feet tall throughout. A few aspen mixed in as well. Old comments- An upland shrub type. Flushed multiple grouse.																																																			
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11	42310 - Planted Spruce	Poletimber Well	13.6	56	81-110	N/A	Spruce plantation with very little understory starting to get some log size trees.																																																			
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13	4130 - Aspen	Sapling Well	5.1	7	Immature	N/A	Squatched Between Hwd & Aspen; Payment Unit 2. Clearcut in 2014. 72-028-13. Stand regenerated to fully stocked aspen with a couple small openings following harvest.																																															
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14	6225 - Bog	Nonstocked	42.4		Immature	No	A few small patches of tamarack and pine through the bog but, mostly open. Aerial photo shows a bit of open water towards the center of stand.																																															
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15	4130 - Aspen	Poletimber Well	94.0	37	1-50	N/A	East is mostly quaking aspen with red maple and serviceberry underneath. West side is big-tooth with a sugar maple component. Sale 72-029-83. Clearcut in 1984. East side of this stand was poorly stocked compared to the west, after the harvest the aspen responded well and filled in along the east, just as the forester from 1983 had hoped. A regenerating aspen stand. A minor mixed conifer component present.																																															
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16	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.0			Well site.																																																
17	4130 - Aspen	Poletimber Well	36.7	37	51-80	N/A	Sale 72-024-83 clearcut in 1984. Aspen getting quite a bit of log size trees but, still pole overall. Stand gets some more rolling topography towards east. A couple elm seen in stand. Heavy hard maple component to understory.																																															
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18	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1			gas well																																																





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>20</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	20.3	27	1-50	N/A	Variable stand with pole size trees in places and immature in others. Hardwood dominated pockets in places. Sub canopy is dominated by beech in places and hard maple in others. Stand gets steeper towards the west. Payment Unit 1 of Aspen Valley Blocks, 72-043-93, clearcut in 1994.		
	<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
	Sugar Maple	20	Sapling/Pole	4		Sugar Maple	High	10 - 20 feet	Sapling
	Basswood	3	Sapling	2		Beech	Medium	10 - 20 feet	Sapling
	Quaking Aspen	33	Pole/Sapling	5	27	Ironwood	Medium	10 - 20 feet	Sapling
	Ironwood	7	Sapling	3		Black Cherry	Medium	Variable	Sapling
	Beech	10	Sapling	3		Witch Hazel	Low	5 - 10 feet	Tall Shrub
	Black Cherry	5	Sapling	3		Serviceberry (Juneberry)	Low	>20 feet	Sapling
	Bigtooth Aspen	22	Pole/Sapling	5					
<b>21</b>	3204 - Mast Producing Shrub	Nonstocked	64.9			No	Open cherry with pockets of aspen. Merged some of the larger aspen pockets into fingers of stand 15. Serviceberry and hawthorn seen through most of stand. Old comments- Kicked up a couple grouse. A good upland bird stand.		
						<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
						Red Maple	Trace	Variable	Sapling
						Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
						Quaking Aspen	Medium	>20 feet	Pole
						Black Cherry	Medium	>20 feet	Sapling
						White Pine	Trace	Variable	Pole
						Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub
<b>22</b>	4110 - Sugar Maple Association	Sawtimber Medium	11.9	85	51-80	N/A	Stand meets minimum criteria to call it log size but, lots of double stem pole size hard maple throughout. No maple in the understory following previous treatment. Harvested in 2016 under 72-026-13-01, everything harvested except Sugar Maple. Residual BA = 50.		
	<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
	Sugar Maple	100	Log/Pole	10	85	Beech	Medium	< 5 feet	Sapling
						Ironwood	Medium	< 5 feet	Sapling
						Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
<b>23</b>	3301 - Low Density Deciduous Trees	Nonstocked	29.2			No	Was final harvested by early 2011 by Dan Bundy Logging (Comp 211 RPP, 72-041-08). Was roller-chopped in 2015 (C72-687). Variance approved 8-4-16 to allow use of herbicide. Herbicided and trenched in 2016, then planted to RP in May 2017. June 2018 Yr 1 regen survey found 804 RP & 796 C-A-M tpa. Yr 3 survey (DN) found 10.3% mortality (869 tpa) & 65% FTG.		
						<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
						Quaking Aspen	Low	< 5 feet	Sapling
						Red Pine	Low	< 5 feet	Seeding
						Black Cherry	Medium	5 - 10 feet	Tall Shrub
<b>25</b>	4130 - Aspen	Poletimber Well	3.8	26	1-50	N/A	Lots of beaver activity around the Kolka Creek associated wetland keeping that portion of stand sapling size. Small (1/4 ac) non-forested low spot looks wet in northwest. Old comments- Part of sale 72-054-93 Kolka Creek Red Pine Block; a clearcut.		
	<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
	Red Maple	8	Sapling/Pole	4		Beech	Low	5 - 10 feet	Sapling
	Quaking Aspen	88	Pole/Sapling	5	26	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
	Black Cherry	2	Sapling/Pole	4		Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub
	Sugar Maple	2	Sapling	3		Black Cherry	Medium	Variable	Sapling
						Sugar Maple	Trace	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
26	6220 - Alder/willow	Nonstocked	20.0			No	Stand includes Kolka Creek as well as an open wetland. Old comments- This stand has a "Natural River" running through it. The entire stand is within the buffer zone.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Quaking Aspen	Trace	>20 feet	Sapling	
								Alder	High	5 - 10 feet	Tall Shrub	
								Willow spp.	High	< 5 feet	Tall Shrub	
Black Cherry	Trace	>20 feet	Sapling									
27	42290 - Natural Mixed Pine	Sawtimber Well	8.1	60	81-110	N/A	A pine island surrounded by blueberry bog.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	10	Pole/Log	9	
								White Pine	20	Log/Pole	10	
								Red Pine	25	Log	14	
Jack Pine	45	Pole/Log	9	60								
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Medium	Variable	Sapling	
								Beech	Medium	5 - 10 feet	Sapling	
								Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub	
Black Cherry	Medium	Variable	Sapling									
28	6112 - Lowland Aspen	Sapling Medium	17.1	2	Immature	N/A	Good aspen response following harvest, will be A3 next entry. Part of Payment Unit 9, Kolka Creek Red Pine 72-010-16. Clearcut with retention in late 2018/early 2019. Needed crane mats to access. No previous inventory notes					
								Canopy Species	% Cover	Size Class	DBH	Age
								Balsam Fir	7	Sapling	1	
								Quaking Aspen	90	Sapling	1	2
								Red Maple	3	Sapling	1	
29	6225 - Bog	Nonstocked	1.1			No	Bog with some shrubs and conifer along perimeter. Old comment- A lowland area surrounded by a regenerating aspen stand.					
30	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	4.9	70	1-50	N/A	Spruce tamarack bog with hummocky sphagnum and leather leaf surrounded by open tag alder. Small upland finger with over mature aspen in south. Old comments- Open water throughout parts with mixed conifer.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Pole/Sap/Log	7	
								Quaking Aspen	23	Log	11	
								Black Spruce	27	Pole/Sapling	6	
								Northern White Cedar	10	Pole/Log	8	
								Tamarack	28	Pole/Log	9	70
								Sub-Canopy Species	Density	Avg. Height	Size	
								Alder	High	5 - 10 feet	Tall Shrub	
Balsam Fir	Medium	Variable	Sapling									
Black Spruce	Medium	Variable	Sapling									
31	330 - Low-Density Trees	Nonstocked	11.4		Immature	4113 - R.Maple, Conifer	South half of stand is currently non-stocked with some heavily browsed red maple stump sprouts. North half looks a little better but, still poorly stocked. Stand contains heavy slash load and high stumps. Part of Payment Unit 9, Kolka Creek Red Pine 72-010-16. Clearcut w/retention in late 2018/early 2019. Prescription says leave around 10% of stand in multiple leave islands as well as a few trees an acres scattered throughout (5BA or less). Needed crane mats to access.					
33	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.8				Well site.					



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<b>34</b>	4130 - Aspen	Sapling Well	4.0	7	1-50	N/A	Changed from R7 to A3, only about 1 acre of widely spaced red pine in northwest corner. Squatched Between Hwd & Aspen; Payment Unit 3. 72-028-13. Clearcut, but leave all red pine. Clearcut in 2014.  Old notes- Excellent variety of wildlife shrubs. Red pine was left roughly 25 BA remaining.																																														
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<b>35</b>	4130 - Aspen	Sapling Well	12.8	15	Immature	N/A	Some wet lowland spots in stand. Kolka Creek Mix 72-069-14, Payment Unit 2, aspen clearcut in 2006.																																														
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<b>37</b>	42110 - Planted Red Pine	Sawtimber Well	8.1	65	111-140	N/A	Kolka Creek Red Pine 72-010-16 Payment Unit 8, cut in early fall of 2018.  Old comments-Thinned 1991?																																														
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<b>38</b>	320 - Upland Shrub	Nonstocked	4.9			No	Old comment- An open area with scattered mast producing shrubs.																																														
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<b>39</b>	42110 - Planted Red Pine	Sawtimber Well	7.7	66	111-140	N/A	BA is around 140 on average. Every third row gone most places, couple spots they took every other row. Kolka Creek Mix 72-069-14, Payment Unit 1, red pine thinning in 2006.																																														
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<b>40</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	76.5	118	51-80	N/A	Variable lowland stand where cover type changes from cedar to maple to open alder depending on ground. Stand falls in the Ausable River, Bradford Creek, and Kolka Creek vegetative buffers. A couple rather distinct age difference between hardwood/alder and cedar made me change to 2-aged. A few legacy white pine and a handful of hemlock in south tip. Thinning prescription from 1983 YOE (northern area of the stand). Previous inventory: A mixed conifer lowland area.																																																																				
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<b>41</b>	500 - Water	Nonstocked	13.0			No	Ausable River and Bradford Creek																																																																				
<b>42</b>	6130 - Fir, Aspen, Maple	Sapling Well	5.6	34	1-50	N/A	Stand of young mostly immature fir and maple. Scattered log and x-log size trees in stand. Stand is in Bradford Creek vegetative buffer.																																																																				
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<b>43</b>	4130 - Aspen	Sapling Well	31.4	6	Immature	N/A	Stand harvested in 2015 under contract 72-027-13-01, "Steroidless Aspen", Payment Unit 1. Aspen responded well to harvest and passes regen objective. Old comment- Aspen/fir stand. Quality and size varies .																																																																				
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<b>44</b>	330 - Low-Density Trees	Nonstocked	6.8			No	Old comment- open with cherry brush and old pine stumps.																																																																				
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<b>45</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	31.5	93	81-110	N/A	Most of stand falls within Bradford Creek and Ausable vegetative buffers. Primarily red maple, aspen and fir up high and on the slope. Lowland cedar at bottom of slope adjacent to river in north. Good white pine pocket in south.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		7	Log/Pole	10		Balsam Fir		
Balsam Fir		24	Pole/Sapling	7		Quaking Aspen		
Northern White Cedar		25	Log/Pole	10	118	Red Maple		
White Pine		5	Log/Pole/XLog	10		Alder		
Quaking Aspen		5	Log	12				
Red Maple		30	Log/XLog/Pole	14	93			
Balsam Poplar		2	Log	12				
Red Pine		2	Log	14				
<b>46</b>	122 - Road/Parking Lot	Nonstocked	10.1			No	Old-27 and RR	
<b>47</b>	42110 - Planted Red Pine	Sawtimber Well	20.7	63	81-110	N/A	Stand was harvested in Spring of 2015 under contract 72-027-13-01, "Steriodless Aspen", Payment Unit 2. Avg Ba = 103 sqft/ac with avg diameter of 11". South half of strip west of powerline is natural mix of aspen and scotch pine. North half of strip west of powerline is planted red pine that wasn't thinned due to poweline and road proximity (3 rows).  Also part of sale 72-57-99, Fire Officer's Red Pine. Thinned.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		97	Log/Pole	11	63	Red Pine		
Scotch Pine		1	Log/Pole	10		Beech		
Quaking Aspen		1	Log/Pole	10		Red Maple		
Balsam Fir		1	Pole	8		Quaking Aspen		
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<b>48</b>	6122 - Black Spruce	Sawtimber Well	5.7	99	81-110	N/A	Log size spruce stand that falls in Ausable vegetative buffer.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black Spruce		93	Log/Pole	10	99	Balsam Fir		
Northern White Cedar		2	Pole/Log	9		Red Maple		
Red Maple		5	Pole/Log	8		Alder		
<b>49</b>	4130 - Aspen	Sapling Well	38.4	6	Immature	N/A	Stand harvested in Spring of 2015 under contract 72-027-13-01, "Steroidless Aspen", Payment Unit 3. Good aspen response following harvest with the exception being a small maple beech pocket in NE. Small pocket of immature scotch pine in north. Retention along Old 27 has some scotch pine as well. Stand met regeneration objective. Old comments- Poor quality quaking aspen stand. Pockets of unmerch timber. Aspen/pine in SW.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		87	Sapling	1	6			
Black Cherry		5	Sapling	1				
Beech		3	Sapling	1				
White Pine		1	Sapling	2				
Scotch Pine		1	Sapling	3				
Balsam Fir		1	Sapling	1				
Red Maple		2	Sapling	1				



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50	4130 - Aspen	Sapling Well	43.3	18	Immature	N/A	Payment Units 1 and 2 of Abandoned Well Site Aspen, 72-027-02, clearcut in 2003. Steep slopes.  Old comments- Previous inventory notes: Hilly aspen stand in process of regenerating. 10-20' Tall.																																																												
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52	4130 - Aspen	Poletimber Well	11.5	37	81-110	N/A	Block 333, 72-213-84, clearcut in 1984. Aspen has a mix of multi-stem sugar and red maple stump sprouts in understory.  Old notes- A regenerating aspen stand. Stand is on the face of a hill.																																																												
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Quaking Aspen	7	Pole	7																																																																
Bigtooth Aspen	73	Pole	7	37																																																															
Sugar Maple	5	Sapling/Pole	4																																																																
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Witch Hazel	Medium	5 - 10 feet	Tall Shrub																																																																
Serviceberry (Juneberry)	Medium	10 - 20 feet	Tall Shrub																																																																
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Beech	Low	Variable	Sapling																																																																
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54	42110 - Planted Red Pine	Sawtimber Well	4.9	65	111-140	N/A	Thinned to 118 BA spring of 2020, Sale: Space Dog RP 72-025-19. West island has an isolated mortality pocket. Island was not thinned in 2020 cut.  Old comments- Retention islands and Natural Rivers buffer left when rest of stand was cut in 2011. Stand data roughed-in from OI data.																																																												
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55	6112 - Lowland Aspen	Poletimber Poor	15.2	35	1-50	N/A	Clearcut prescription from 1983 YO. Very wet/open lowland poplar with patches of fir and cedar. Ausable vegetative buffer falls in stand.																																																												
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