



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72288

Entry Year 2021

Acreage: 1,383

County Crawford

Management Area: AuSable Outwash

Revision Date: 2019-08-22

Stand Examiner: Derek Nellis

Legal Description:

Lovell's Township T28N, R01W, Sections 34, 35, and 36

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:

Topography is flat with rolling hills. Soil types consist primarily of Grayling and Graycalm sands; these soils are somewhat excessively to excessively drained.

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

This compartment is found within a large block of public ownership. The majority of private parcels in this township are found along the river corridors.

Unique Natural Features:

There is potential for dry prairie plants in grassy openings: Hill's thistle, rough fescue, Alleghany plum, and Pale Agoseris. There is potential for several animals of concern in this compartment: Kirtland's warbler, prairie warbler, bald eagle, wood turtle, Massasauga rattle snake, secretive locust, dusted skipper, grizzled skipper, and the red-legged spittle bug.

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

The West Branch of Big Creek and the Middle Branch of Big Creek are designated "Natural Rivers". Natural Rivers are High Value Conservation Areas (HCVA).

Watershed and Fisheries Considerations:

This compartment is in the Au Sable River watershed and lies between West Branch Big Creek and Middle Branch Big Creek/Big Creek Impoundment. The proposed management activities are appropriate for the protection of these waterbodies.

Wildlife Habitat Considerations:

Try to expand the aspen component where possible. During timber harvesting make efforts to improve snag habitat and down woody debris. Also, try to leave some high stumps for feeding perches and drumming.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located four miles to the northwest and southwest, and there is good potential for sand & gravel within the compartment. There has been no oil & gas production, past or present, within more than two miles of the compartment. There is no history of mineral leasing within the compartment, but there are some active oil & gas leases two miles to the north associated with the Antrim Shale gas play. There does not appear to be any Antrim potential within the compartment, and there is no known potential for other known producing formations. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Access through out the compartment is excellent by way of the county roads of Walsh and Townline Roads along with several forest roads.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

A portion of the Walsh Road Trail Camp can be found in section 36. Part of the the Roll snowmobile trail #409 is located in section 34. The Shore to Shore Riding & Hiking trail is found in sections 35 and 36. Dispersed recreation occurs throughout the area.

Fire Protection:

The current road system is adequate and timber conversion is not needed. The rivers, roads, and utility lines provide adequate fuel breaks.

Additional Compartment Information:

The following reports from the Inventory are attached:

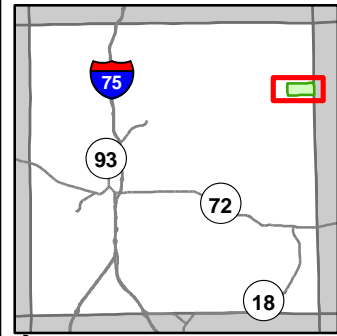
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

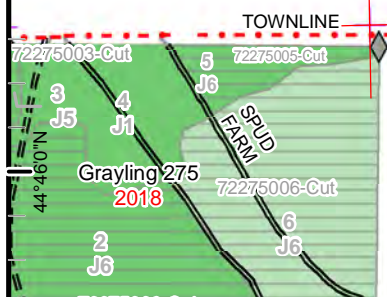
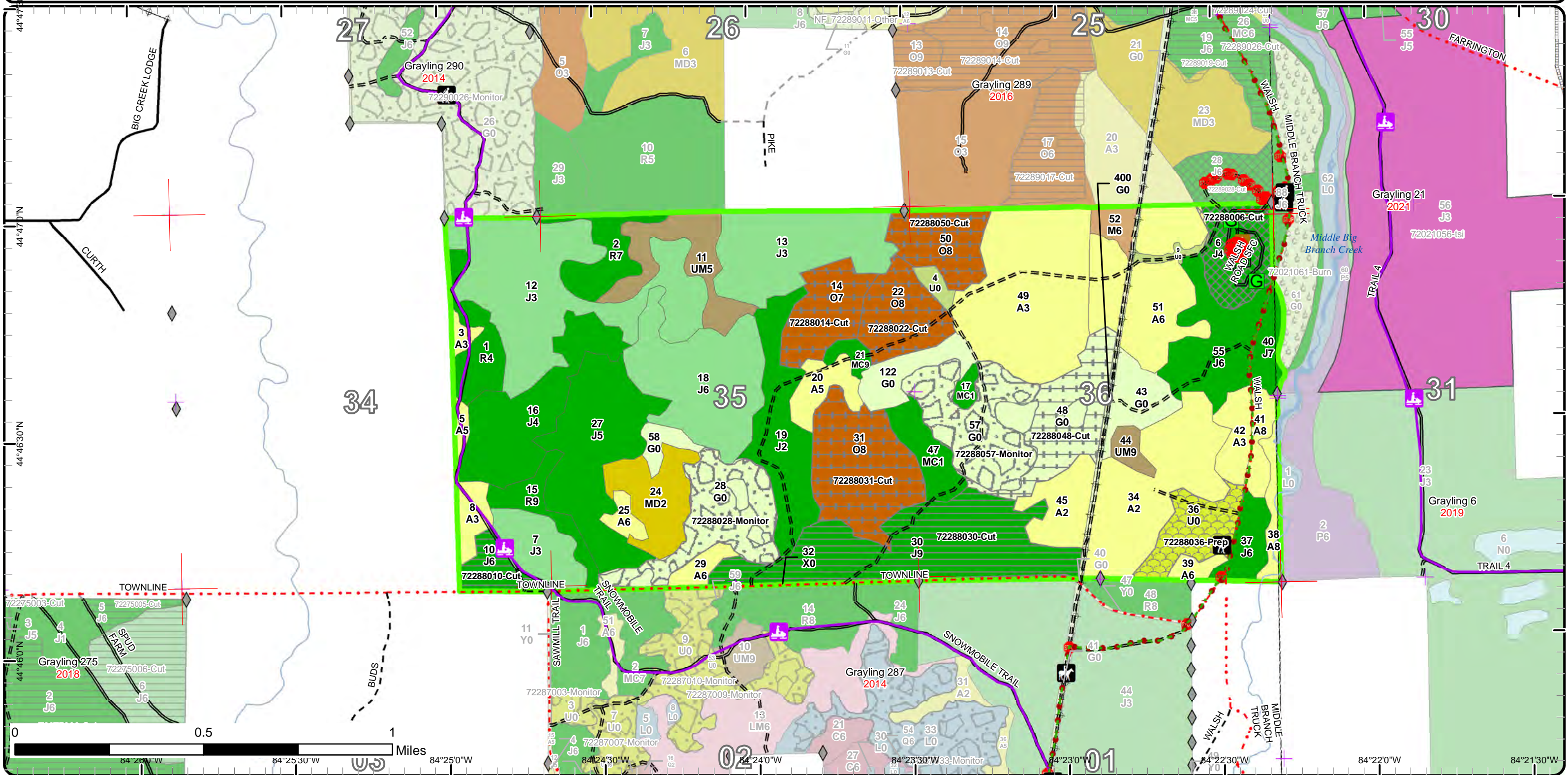
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 288
 T28N, R01W, Sec. 35-36
 County: Crawford
 Unit: Grayling
 Mgmt Area: AuSable Outwash
 YOE: 2021
 Acres: 1,384 GIS Calculated
 Examiner: Derek Nellis
 Map Revised: 12/9/2019
 Map Phase: Post-Review

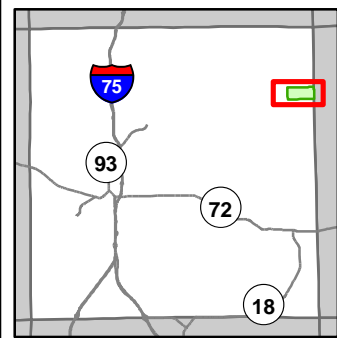


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🐎 Horse Trails
- 🏠 Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Snowmobile Trails
- G Gate
- 🏕 Campground
- 🛑 Sign
- 🌊 Intermittent Pond
- Perennial River
- Lakes and Rivers
- ⚡ Powerline
- 📏 Compartment Boundary
- 🌳 Selection (Group, Single Tree)
- 📏 Clearcut (w/Reserves)
- 🏠 Harvest, Overstory Removal
- 📏 Regeneration Survey
- 📏 Site Prep
- 🌳 411 - Northern Hardwood
- 🌳 412 - Oak Types
- 🌳 413 - Aspen
- 🌳 419 - Mixed Upland Deciduous
- 🌳 421 - Planted Pines
- 🌳 422 - Natural Pines
- 🌳 430 - Upland Mixed Forest
- 🛑 122 - Roads/Parking Lot
- 🌳 310 - Herbaceous Openland
- 🌳 320 - Upland Shrub
- 🌳 330 - Low Density Trees

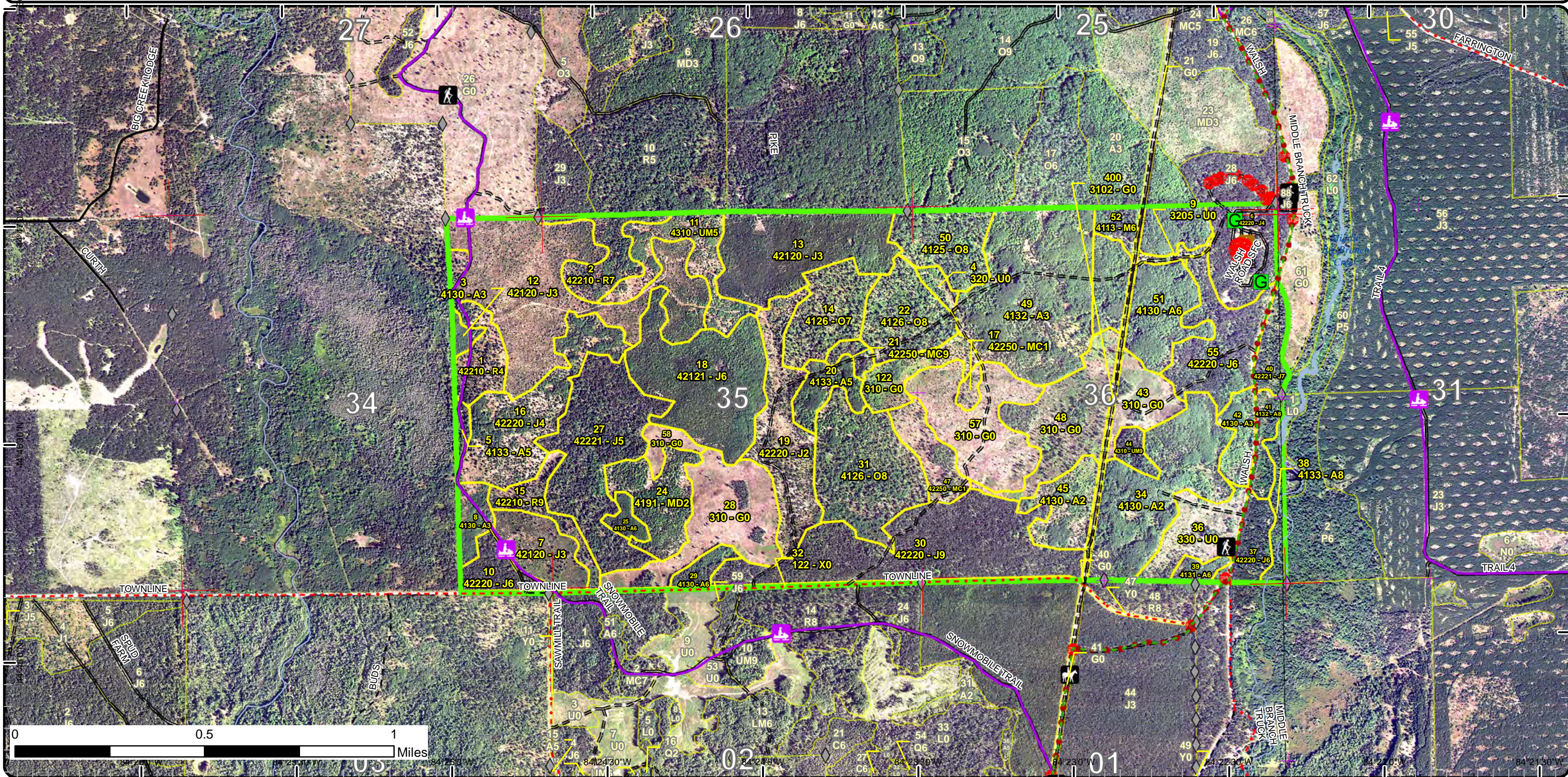


Stand Boundary Map

Compartment: 288
 T28N, R01W, Sec. 35-36
 County: Crawford
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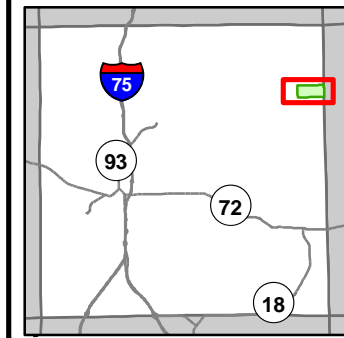


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- ▲ Campground
- ⛔ Sign
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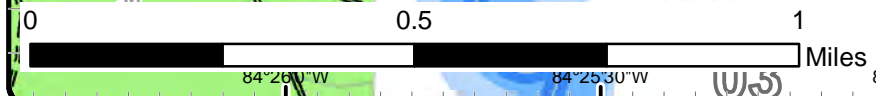
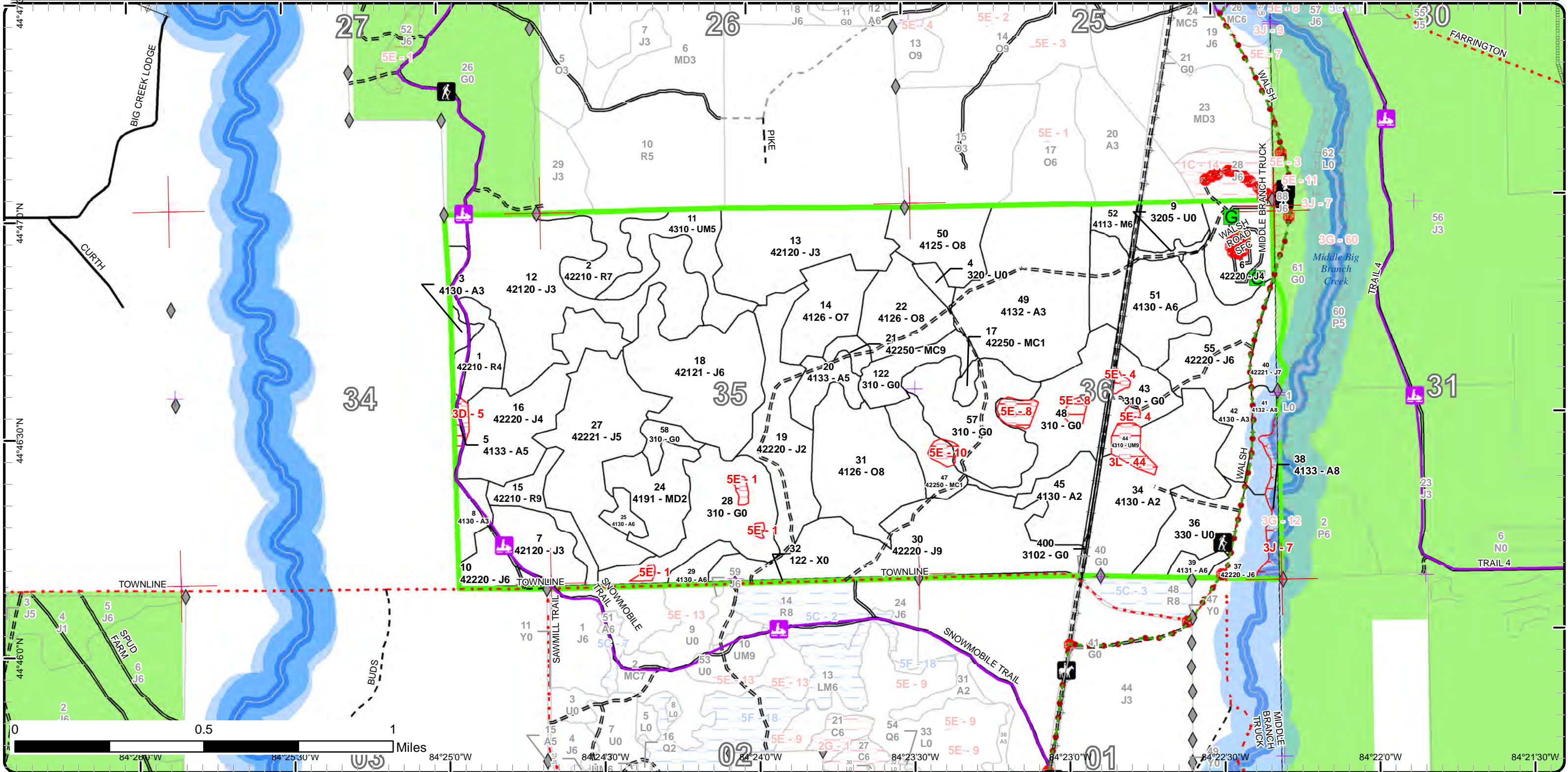


Special Conservation Areas

Compartment: 288
 T28N, R01W, Sec. 35-36
 County: Crawford
 Unit: Grayling
 Mgmt Area: AuSable Outwash
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- Designated Equestrian Trails
- Designated Snowmobile Trails
- G Gate
- ▲ Campground
- STOP Sign
- ⋯ Intermittent Pond
- Perennial River
- ▭ Lakes and Rivers
- ⊕ Powerline
- Compartment Boundary
- Unavailable
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 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	0	46	67	103	67	0	19	0	0	0	0	0	0	0	0	0	0	302
Herbaceous Openland	181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181
Jack Pine	0	0	162	105	63	37	77	127	11	0	0	0	0	0	0	0	0	0	580
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Mixed Upland Deciduous	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Natural Mixed Pines	0	0	20	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	25
Northern Hardwood	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Oak	0	0	0	0	0	0	0	0	0	52	84	0	0	0	0	0	0	0	136
Red Pine	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	14	0	53
Upland Mixed Forest	0	0	0	0	0	6	0	29	0	0	0	0	0	0	0	0	0	0	35
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	219	0	228	199	166	117	77	219	11	0	52	84	0	0	0	0	14	0	1384



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 288

Total Compartment Acres: 1,383

Commercial Harvest - 294
 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
Herbaceous Openland	0	0	0	0	0	0	35	0	0	35
Jack Pine	99	25	0	0	0	0	0	0	0	123
Oak	0	0	0	0	0	0	136	0	0	136
Total	99	25	0	0	0	0	171	0	0	294

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	294	24	0	0	0	0	85	0	0	403
Next Step	0	272	185	0	27	347	629	0	0	1460
Total	294	296	185	0	27	347	713	0	0	1863



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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:

6	72288006-Cut	24.9	42220 - Natural Jack Pine	Poletimber Poor	62	1-50	Harvest	Group Selection	4222 - Natural Jack Pine	Uneven-Aged	No
<p><u>Prescription</u> Remove all Jack Pine 6 inches and up dbh. Be careful to protect remaining jack pine.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> Require low impact and easily maneuverable equipment in contract for sale to minimize impact to campground. Remove all aspen. Exclude any areas that are mostly small diameter jack pine from sale. Cut all stumps extremely low. Cut all standing dead. Sale must be chipped. Protect ORV trail. <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> jack pine</p> <p><u>Other Comment:</u> Winter cut only, hand plant RP underneath throughout the stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>											
10	72288010-Cut	12.3	42220 - Natural Jack Pine	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all trees >2". Slash is to remain on site. Add trail specs for rec trail</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Pesticide, Skidder - Release; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting,</p> <p><u>Treatments:</u> Interplant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> 60% of stand stocked with 600+ jack pine/acre.</p> <p><u>Other Comment:</u> Alternative to natural jack pine is prep and plant areas of failed natural regeneration to red pine at a density for a fully stocked stand</p> <p><u>Other Comment:</u> Based on core samples the jack pine has stagnated. Broken tops and some mortality was observed.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
14	72288014-Cut	27.7	4126 - White, Black, N. Pin Oak	Sawtimber Poor	103	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Harvest all trees >5". Retain all conifer. Protect advanced oak regeneration. Focus retention on areas with higher densities of white oak and pine.</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 Regen:</u> 60% oak or more with any combination of aspen, red maple, and conifer to be fully stocked.</p> <p><u>Other Comment:</u> Quality patches of white oak regeneration throughout. Some overstory red pine in the SW with a trace amount of red pine regeneration.</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
22	72288022-Cut	28.7	4126 - White, Black, N. Pin Oak	Sawtimber Medium	105	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all trees >5". Retain all conifer. Protect advanced oak regeneration. Focus retention on areas with higher densities of white oak and pine.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> 60% oak or more with any combination of aspen, red maple, and conifer to be fully stocked.</p> <p><u>Other Comment:</u> The majority of this stand has quality white oak regeneration over 5'tall. Most red/black/pin oak is less than 5' and more sparsely dispersed. There is one large white pine centrally located in the stand that is starting to produce a trace of white pine regeneration. two rut forest road on south end has some equestrian use.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>											
28	72288028-Monitor	39.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Yr 3 artificial regen check.</p> <p><u>Next Step Treatments:</u> ; Pesticide, (Inactive)Aerial; SitePrep, Roller Chopping</p> <p><u>Acceptable Regen:</u> Full stocking in planted RP</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>											
30	72288030-Cut	86.2	42220 - Natural Jack Pine	Sawtimber Well	60	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all trees >2". Slash is to remain on site.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Pesticide, Skidder - Release; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Interplant; ; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> 60% of stand stocked with 600+ jack pine/acre. Alternative to natural jack pine is prep and plant areas of failed natural regeneration to red pine at a density for a fully stocked stand</p> <p><u>Other Comment:</u> Based on core samples the jack pine has stagnated. Broken tops and some mortality was observed.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>											
31	72288031-Cut	52.3	4126 - White, Black, N. Pin Oak	Sawtimber Medium	97	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all trees > 5". Protect advanced oak regeneration. Retain all conifer. Focus retention areas around white oak, aspen clone, and conifer.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> 60% oak or more with any combination of aspen, red maple, and conifer to be fully stocked.</p> <p><u>Other Comment:</u> Quality white oak regeneration in patches throughout the stand. A health sapling sized aspen clone is located in the NW.</p> <p><u>Site Condition</u> Proposed Start Date: 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
36 72288036-Prep	24.1	330 - Low-Density Trees	Nonstocked	0	Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Trench <u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Initial Plant; Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial <u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable</u> Planted red pine at a density for a well stocked stand. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
48 72288048-Cut	35.4	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Harvest	Overstory Removal	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all trees >2". Maintain established retention. <u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial <u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable</u> Planted red pine at a density for a fully stocked stand <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
50 72288050-Cut	26.9	4125 - Black, N. Pin Oak	Sawtimber Medium	106	1-50	Harvest	Overstory Removal	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees >2". Low stump and chipping required. <u>Specs:</u></p> <p><u>Next Step</u> Burn, Other; Monitoring, Natural Regen (Re-Inventory); Pesticide, Skidder - Site Prep; SitePrep, Roller Chopping; SitePrep, Trenching; <u>Treatments:</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Planted red pine at densities for a well stocked stand. <u>Regen:</u></p> <p><u>Other</u> Forced conversion to planted red pine. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
57 72288057-Monitor	44.9	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Yr 3 artificial regen survey <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping <u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <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
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Total Treatment Acreage Proposed: 403.1

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 288
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		3D	3J	3L	5E
301	288	0	13	Aspen	4	9	0	
182	170	0	12	Herbaceous Openland			0	12
581	581	0	0	Jack Pine		0		
24	24	0	0	Low-Density Trees				
27	27	0	0	Mixed Upland Deciduous				
24	22	0	2	Natural Mixed Pines				2
7	7	0	0	Northern Hardwood				
136	136	0	0	Oak				
53	53	0	0	Red Pine				
34	29	0	6	Upland Mixed Forest			6	
7	7	0	0	Upland Shrub				
7	7	0	0	Urban				
1,384	1,351		33	Total Forested Acres	4	10	6	14
	98%		2%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3D: Recreational / Scenic values	4	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 288
Year of Entry: 2021

7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Riparian transition along Big Creek.							
8	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	3L: Other wildlife concerns	6	5C: Delay treatment for age/size class diversity or exceptional site quality	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
Comments				

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

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

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

Conservation Area	Type	Description
SCA	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.
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. 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	42210 - Natural Red Pine	Poletimber Poor	19.4	60	1-50	N/A	Moderately stocked red pine overstory with sapling jack pine, white pine, and oak. Patches of poor stocking dominated by sedges and blueberry. OPIC - FMD: Stand harvested during the winter of 2004. Red pine was left. Majority of these trees were suppressed. A couple white pine present as well. Some unmerch found through out. Most of this stand was not under planted. Check regen in 10, if poor - May want to under plant or remove red pine and then plant. Snowmobile trail runs through stand.																																								
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3	4130 - Aspen	Sapling Well	3.5	14	Immature	N/A	Dense nearly pure aspen clone bisected by snowmobile/atv route and a two rut trail on the east side. Ephemeral pond located in stand 1 borders on NE. Some scattered pine east of snowmobile/atv route. OPIC - FMD: Stand harvested during the winter of 2004. (Portions of stand planted to jack pine in may of 2006 under FTP C72-530.) Some cherry brush, red maple, and bigger red pine present. A couple low/wet areas.																																								
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4	320 - Upland Shrub	Nonstocked	4.1	13	Immature	No	Includes some low density pine and oak on the perimeter with sedges, sweet fern and blueberry through the center. Horse trail runs across the south southern corner. OPIC - FMD: Area has historically been used as a landing site for the surrounding stands. Burn with stands 47, 48, 122.																																								
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5	4133 - Aspen, Mixed Pine	Poletimber Medium	3.5	37	1-50	N/A	Mixed stand transitioning from upland (east) to lowland (west). OPIC - FMD: Used stand 1 for origin and SI. Stand is just on the edge of a conifer swamp. Pockets of blow down present. Eastern edge is higher ground and has an oak/pine component. Fir, black spruce, red maple, oak, wp, jp, cedar, and rp present. Stand is small, long and narrow-borders pvt and the snowmobile trail. Let it convert to a Q-type. Old comments																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
6	42220 - Natural Jack Pine	Poletimber Poor	28.2	62	1-50	N/A	Some jack pine mortality typical of 60+ y/o. Red pine present are beginning to over top jack pine and are maintaining vigor. OPIC - FMD: Walsh Road Trail Camp. Remove hazard trees as necessary. In the event of scattered extra seedlings-consider stand for hand planting. A few areas throughout camp ground are fully stocked.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine	85	Pole/Log	8	62				
Red Pine	10	Log	12	52				
7	42120 - Planted Jack Pine	Sapling Well	22.0	13	Immature	N/A	Contiguous and well stocked. Snowmobile/atv route along west/southwest boundary. OPIC - FMD: planted to 2-0 jack pine in 2006. Scattered overstory pine, less than 10BA.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine	90	Sapling	2	13				
Red Pine	8	Log	16					
8	4130 - Aspen	Sapling Well	9.8	14	Immature	N/A	Stand is bisected by snowmobile/atv route. Lower stocking on north end. Heavier to oak and pine NE of snowmobile/atv route. OPIC - FMD: Final harvested spring 2005. QA w/ cherry brush, stump sprout oak, and misc pine. Pockets of U-type through out.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen	96	Sapling	3	14				
9	3205 - Mixed Upland Shrub	Nonstocked	3.0	48	Immature	No	Horse trail runs through the center of the stand. OPIC - FMD: Scattered jack, pine cherry, and other misc species. Stand is a small valley between S53 and S56. SI estimated.	
Sub-Canopy Species		Density	Avg. Height	Size				
Black Cherry	Medium	10 - 20 feet	Sapling					
Black/Red (Hybrid) Oak	Low	>20 feet	Sapling					
Jack Pine	Low	10 - 20 feet	Sapling					
Quaking Aspen	Trace	>20 feet	Sapling					
Red Pine	Trace	10 - 20 feet	Sapling					
10	42220 - Natural Jack Pine	Poletimber Well	12.3	60	81-110	N/A	Minimal growth in past ten years based on core sample. Borderline log size jack pine with scattered large multistem oak. Some jack pine mortality. Snowmobile/atv route along eastern boundary with a short section of trail across the eastern corner.- FMD: Oak also present in stand. Stand in good shape. Smaller stuff along Townline Rd. Stand has been left for visual.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine	97	Pole	9	60				
Sub-Canopy Species		Density	Avg. Height	Size				
White Pine	Trace	5 - 10 feet	Sapling					
Black Cherry	Medium	Variable	Sapling					
Red Pine	Trace	10 - 20 feet	Sapling					
Balsam Fir	Trace	5 - 10 feet	Sapling					
11	4310 - Pine, Oak Mix	Poletimber Medium	28.6	66	1-50	N/A	Some aspen clones present. Areas of low stocking dominated by sedges, sweet fern, and blueberry.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine	50	Pole/Log	9	66				
Black/Red (Hybrid) Oak	50	Sapling	3					
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Bracken Fern	Medium	Unspecified	Non-Wood					
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Wintergreen	Medium	< 5 feet	Tall Shrub					
Quaking Aspen	Medium	10 - 20 feet	Sapling					
12	42120 - Planted Jack Pine	Sapling Well	96.5	15	Immature	N/A	Well stocked contiguous jack pine.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine	95	Sapling	1	15				
Sub-Canopy Species		Density	Avg. Height	Size				
Sedges	Full	Unspecified	Non-Wood					
							Planted to Jack Pine in 2004, area is scattered with oak sprouts with decent survival. Some of the areas in the east where natural regen was planted around.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
13	42120 - Planted Jack Pine	Sapling Well	55.7	28	Immature	N/A	Borderline pole sized jack pine. There is a small aspen inclusion on the east side. Borders private land to the north. OPIC - FMD: 6-10' tall. Various species mixed in the plantation. Look like some older sticks of jp here and there (old regen planted around).																																														
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14	4126 - White, Black, N. Pin Oak	Sawtimber Poor	27.7	103	1-50	N/A	Patches of white oak regen with red maple stump sprouts. White oak saplings are reaching highs above deer browse. Red/black hybrid oak regen still < 5'. Stand is moderately stocked with oak regen. OPIC - FMD: Stand was shelterwood/seed tree harvested with oak remaining at a BA of 30 sq ft. Sale # 0060201. Below average quality. Browse on oak and red maple regen.. A few pine filling in understory.																																														
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15	42210 - Natural Red Pine	Sawtimber Well	14.3	150	1-50	N/A	Stand was split from stand 7. Approaching multi-aged structure. The largest of the red pine are 150+ y/o. Unable to get an accurate age because I did not have a large enough increment borer.																																														
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16	42220 - Natural Jack Pine	Poletimber Poor	49.1	28	1-50	N/A	Mixed jack pine and red maple with stunted cherry scattered throughout. More open areas dominated by sedges and sweet fern. OPIC - FMD: A good mixture of species. Poor stocking in portions. USED OLD SI.																																														
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17	42250 - Pine, Oak	Sapling Poor	3.4	10	Immature	N/A	Poor quality jack pine with scattered overstory red pine. Scattered low vigor oak sprouts and stunted cherry. OPIC - FMD: UPDATE: FTP #C72-635 SUBMITTED FOR BURN AFTER COMPLETION OF TIMBER SALE 12/31/09. Very poor quality. Some trees in the 70 age range. Potential barren management area? Several areas of standing dead jack pine. Final Harvest with reserves. Leave red pine and a couple islands (1-3 acres total). Burn as soon as possible after completion of sale. Give a specific time frame with no extensions on the contract, fill out an FTP for the burn before hand. The management objective for this stand is jack pine. Open pine barren areas should be expected. A poorly stocked stand with natural jack pine is acceptable. Harvest and burn with stands 48 and 122. Variance approved in Oct 2016 to drop the burn Rx and manage part of this stand for RP. That portion was split out as new stand 57.																																														
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18	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	62.9	38	51-80	N/A	Approaching 20' tall. Heavier to aspen on the SE edge. OPIC - FMD: 10' tall in areas. Portions of plantation are over topped by aspen clones. Rolling topo.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
19	42220 - Natural Jack Pine	Sapling Medium	43.0	18	Immature	N/A	Moderately stocked. Not much for regen. Ground cover dominated by blueberry. Good aesthetics with open understory and scattered large pine. OPIC - FMD: Harvested in 2001. Natural regen. Bigger white pine and red pine found in the north. A few oak sprouts. Horse trail runs through stand.																																			
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20	4133 - Aspen, Mixed Pine	Poletimber Medium	13.2	35	1-50	N/A	Aspen pole with patches of mixed conifer. White oak saplings mixed in aspen areas. OPIC - FMD: Patchy with areas of poor stocking - oak, maple, and pine mixed in. Majority of aspen is 20 - 30' tall.																																			
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21	42250 - Pine, Oak	Sawtimber Well	4.7	60	81-110	N/A	Quality oak regen in canopy gaps created by over story mortality.- FMD: Hold as is. A couple nice sticks of jack pine. Saw log oak and maple. Dead tops and blowdown. Provides a nice island of refuge from surrounding treatments.																																			
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22	4126 - White, Black, N. Pin Oak	Sawtimber Medium	28.7	105	1-50	N/A	Horse trail traverses southern third of the stand. A few large red pine in the SE corner. OPIC - FMD: Stand was shelterwood harvested, residual BA of 40 sq ft. Sale # 0060201. Understory is currently red maple clumps and aspen clones. May treat portion south of horse trail. Burn with stands 4, 47, 48, and 122																																			
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24	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	27.3	28	Immature	N/A	Maple and oak are mostly stump sprout origin. Scattered jack pine patches. Frost pockets in the kettles of the rolling topo primarily sedges and sweet fern. OPIC - FMD: The stand starts out as a J3 and the transitions into an oak/red maple type with scattered aspen and pine. The regen is 10 - 25' tall. Browse present. Rolling topo. Areas of poor stocking found.																																			
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25	4130 - Aspen	Poletimber Well	5.2	46	81-110	N/A	Some density dependent mortality as the stand transitions to sawlog size. OPIC - FMD: Stand will be an A6 next YOE. Mixed pine, rm, and oak present.																																			
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27	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	62.9	58	1-50	N/A	Jack pine look good and vigorous for their age. OPIC - FMD: Stand was picked through in the 70's. The jack pine is in good shape, average quality oak, aspen has hypox. Some red pine establishing in the understory.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
28	310 - Herbaceous Openland	Nonstocked	45.9	0	Unspecified	4211 - Planted Red Pine	Was cut in 2014 (#039-11). Variance approved 2016 to change MO to planted RP, allowing roller chopping & herbicide use if necessary. Herbicide was applied by skidder in July 2017, followed by trenching in August 2017 (C72-767), & RP was planted in May 2018. Yr 1 regen survey in Oct 2018 found 47.3% mortality and 80.5% free-to-grow. 895 initial stocking - 47.3% = 472 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. Portion of the oak re-sprouted; increases to N & NW. Re-planted w/ top-pruned 4-0 bareroot RP in April 2019. Yr 1 regen survey Oct 2019 following replant. 11.75% mortality and 80.25% FTG. 981 initial planting - 11.75% mortality = 866 RP established. Pockets of lower (<75%) FTG that brought the average down. Trenches are filling in with sweet fern and sedge. Oak is the main competitor. BTA sapling pocket located in the SW corner near Townline road.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Full	< 5 feet	Seeding	
								Northern Pin Oak	Medium	5 - 10 feet	Sapling	
								Red Pine	Trace	>20 feet	Log	
								White Oak	Trace	>20 feet	Log	
Bigtooth Aspen	Low	5 - 10 feet	Sapling									
Black Cherry	Low	5 - 10 feet	Tall Shrub									
29	4130 - Aspen	Poletimber Well	6.2	46	81-110	N/A	Some aspen approaching sawlog size. OPIC - FMD: Big Red pine along the road. A vein of jack pine also in stand. Would recommend the removal of the pine during the next treatment, this will maximize aspen regen.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	85	Pole	6	46
Red Pine	10	Log	14									
30	42220 - Natural Jack Pine	Sawtimber Well	86.2	60	81-110	N/A	Some jack pine mortality and broken tops. vigor has plateaued based on examination of increment core. OPIC - FMD: Rolling topo. Red pine and poor quality oak mixed through out. Jack pine quality varies, some areas look very good. Pockets of J4 and U types. North east portion of stand has pockets of J5 under 30' tall - harvested in the 70's. This stand is in better condition than the adjacent stands to the north. Recommend holding this stand for 10 and treating the northern stands. A few relic red pine present.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	75	Log/Pole	10	60
								Black/Red (Hybrid) Oak	15	Log	14	100
								Sub-Canopy Species	Density	Avg. Height	Size	
Bearberry	Medium	< 5 feet	Tall Shrub									
Common Lowbush Blueberry	High	< 5 feet	Tall Shrub									
31	4126 - White, Black, N. Pin Oak	Sawtimber Medium	52.3	97	1-50	N/A	The majority of black/red oak regen continues to be heavily browsed. White oak regen is fairly evenly distributed and approaching 20'tall. OPIC - FMD: Sale was shelterwood harvested with a residual BA of 50 sq ft/acre. Sale # 0060201. Decent jack pine regen found at old landing. Scattered pine in understory. Areas where white oak seedling are above the browse line. Northern pin regen is typical for area, heavy browse. Old SI used					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Oak	46	Log/Pole	10	97
								Black/Red (Hybrid) Oak	44	Log/Pole	10	97
								Red Pine	10	Pole/Log	8	
Sub-Canopy Species	Density	Avg. Height	Size									
White Oak	Medium	10 - 20 feet	Sapling									
Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling									
Red Pine	Trace	5 - 10 feet	Sapling									
32	122 - Road/Parking Lot	Nonstocked	7.1	0		No	Townline Road					
34	4130 - Aspen	Sapling Medium	61.7	26	Immature	N/A	OPIC - FMD: Pockets of A3 surrounded by open areas with jack pine, oak, cherry brush, and red maple. (A3-O2-U2-M2) Rolling topo. There is a small Q6 along the power line at the base of the hill.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	80	Sapling/Pole	4	26
White Pine	10	Log	16									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
36	330 - Low-Density Trees	Nonstocked	24.1	0	Unspecified	4199 - Other Mixed Upland Deciduous	<p>Some non-forested areas dominated by cherry brush, grasses, sedges, blueberry, and sweet fern.</p> <p>Variance approved on 9-22-2016 to drop trenching and planting and change the MO to Mixed Deciduous, accepting a moderately stocked stand.</p> <p>Stand harvested under contract 72-039-11-01, Magic Dragon Mix. Stand is scheduled to be planted around residual left from harvest, TMS will make final decision.</p> <p>OPIC - FMD: Open, below average quality stand. Looks like prior treatments removed majority of timber except for oak (60's - early 70's). Delayed removal, harvest trees 5" or greater in diameter. Leave red pine and white pine, mark some healthy oak scattered through out to leave. For retention, leave an adequate visual buffer (1-2 acres) along walsh Rd. Trench and plant (jack or red pine) around residual. Old SI used</p>																														
37	42220 - Natural Jack Pine	Poletimber Well	13.7	59	51-80	N/A	<p>Jack pine pole with some natural openings. East border follows topography were there is a small drop and transition to the river corridor. OPIC - FMD: Areas of stand had timber removed in the 60's. A sawlog here and there, timber is a little larger in the south. Stand serves as an extra river buffer.</p>																														
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38	4133 - Aspen, Mixed Pine	Sawtimber Medium	9.3	65	51-80	N/A	<p>River corridor. Some areas of conifer mortality from intermittent flooding. Some beaver activity observed. OPIC - FMD: North portion of stand is a R8/J8. A couple cedar along the creek. Areas of L3 and grass. Tamarack, fir, jack pine, and red pine = 98. This is a river flood plain area. The Middle branch of Big Creek is located within the stand. This creek is a designated "Natural River" these rivers have been given HCVA designation. This stand falls within the NR boundary. This is the reason for the 08 stand condition code.</p>																														
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39	4131 - Aspen, Oak	Poletimber Well	4.8	26	Immature	N/A																															
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40	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Poor	11.3	77	1-50	N/A	<p>OPIC - FMD: Some bigger jack pine with 4 sticks. Open areas with cherry brush. Variable age classes. A couple fishing/camping areas within the stand. Close to Middle Br Big Creek. Old Si used.</p>																														
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41	4132 - Aspen, Jack Pine	Sawtimber Medium	9.9	60	51-80	N/A	Regen dominated by red maple. Heavy browse on oak. OPIC - FMD: Mixed stand. Heavy browse. Red maple seems to be the most consistant through out.. Cherry, oak, jack pine, red pine, and white pine also present. Open brushy areas present. A couple local camping spots found here. Regen is 15+' tall in areas. Old SI used																									
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42	4130 - Aspen	Sapling Well	12.3	18	Immature	N/A	Aspen regen distributed in several large patches with oak and maple sprouts. Some areas of lower density. OPIC - FMD: Patchy in density & quality. Mixed pine, oak and red maple also present. Stand final harvested 2001. Timber sale number 720070101. Old SI used.																									
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43	310 - Herbaceous Openland	Nonstocked	17.2	0	Unspecified	4139 - Aspen, Mixed Deciduous	Oak regen is heavily browsed some small patches of aspen and red maple. jack pine seedlings are well dispersed but low density. Variance approved on 9-22-2016 to drop trenching and planting and change the MO to Mixed Deciduous, accepting a moderately stocked stand. Trench and plant jack pine around natural regeneration. Management objective for this stand is jack pine.																									
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44	4310 - Pine, Oak Mix	Sawtimber Well	5.8	40	81-110	N/A	XLog red pine 120+ y/o. Could not get an accurate age due to increment borer being too small. Starting to see multi age red pine composition. OPIC - FMD: Some good looking oak in the under story. Stand makes a nice refuge island for surrounding treatments. A pocket os sawlog size aspen in the south. A few relic pine must be in the 100 range.																									
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45	4130 - Aspen	Sapling Medium	20.2	18	Immature	N/A	Some oak sprouts are above deer browse. OPIC - FMD: Pockets of A3 with open areas of oak and red maple. A couple wp in stand too. Extensive browse. May want to consider planting the open areas with jp. Some pockets of aspen reaching 10' tall. Stand final harvested 2001. Timber sale number 720070101. Old SI used.																									
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47	42250 - Pine, Oak	Sapling Poor	16.3	10	Immature	N/A	Some oak sprouts on the north end are above browse height. patches of jack pine seedling and sapling scattered throughout. OPIC - FMD: UPDATE: FTP #C72-635 SUBMITTED FOR BURN AFTER COMPLETION OF TIMBER SALE 12/31/09. Very poor quality. Some trees in the 70 age range. Potential barren management area? Several areas of standing dead jack pine. Final Harvest with reserves. Leave red pine and a couple islands (1-3 acres total). Burn as soon as possible after completion of sale. Give a specific time frame with no extensions on the contract, fill out an FTP for the burn before hand. The management objective for this stand is jack pine. Open pine barren areas should be expected. A poorly stocked stand with natural jack pine is acceptable. Harvest and burn with stands 48 and 122. Variance approved in Oct 2016 to drop the burn Rx and manage part of this stand for RP. That portion was split out as new stand 57.																														
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48	310 - Herbaceous Openland	Nonstocked	42.1	0	Unspecified	4222 - Natural Jack Pine	OPIC - FMD: UPDATE: FTP #C72-635 SUBMITTED FOR BURN AFTER COMPLETION OF TIMBER SALE 12/31/09. Very poor quality. Stunted areas. Potential barren management area? Several areas of standing dead jack pine. A couple clones of aspen present. Final Harvest with reserves. Leave red pine and a couple islands (3-6 acres total). Burn as soon as possible after completion of sale. Give a specific time frame with no extensions on the contract, fill out an FTP for the burn before hand. The management objective for this stand is jack pine. Open pine barren areas should be expected. A poorly stocked stand with natural jack pine is acceptable. Harvest and burn with stands 47 and 122. Old age and SI used. Variance approved in Oct 2016 to drop the burn Rx and manage part of this stand for RP. That portion was split out as new stand 57.																														
49	4132 - Aspen, Jack Pine	Sapling Well	85.8	30	Immature	N/A	rolling topo. aspen on hill tops jack pine in frost pockets. some patches of grass/sedge. OPIC - FMD: Stand is an A3 with veins of jack pine regen running through it. Very cool stand. BT= 20' tall. Jack pine = 10' tall. Old SI used.																														
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50	4125 - Black, N. Pin Oak	Sawtimber Medium	26.9	106	1-50	N/A	Approximately 15% overstory mortality. Regen is mostly red maple sprouts and aspen. - FMD: This stand has the best quality within the compartment. However, several areas show quite a bit of logging damage. Some oak regen above the browse line. Pockets of aspen mixed in with the red maple understory. Stand was shelterwood harvested last YOY with an oak BA of 50 sq ft remaining. Sale # 0060201. 05/15/2019 Approx. 10-20% mortality in the overstory. Very little oak regen-primarily red maple and aspen																														
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51	4130 - Aspen	Poletimber Well	55.5	48	81-110	N/A	Open areas with oak and red maple clumps. Scattered red pine. Stand bisected by power line.																														
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52	4113 - R.Maple, Conifer	Poletimber Well	6.9	48	81-110	N/A	Some overstory oak mortality. Some very large red pine. OPIC - FMD: East side of cut. Some areas of A6, others of O6/M6. Red pine was left. There are some super canopy red pine pockets through out. Higher concentration on this side. Old SI used.																															
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55	42220 - Natural Jack Pine	Poletimber Well	37.1	48	51-80	N/A	Walsh rd. camp to the north. OPIC - FMD: DBH cut in 71. Small clones of aspen in stand, some sawlog red pine, and other areas of 1 stick J4. Stand looks to be in good shape.																															
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57	310 - Herbaceous Openland	Nonstocked	45.4	0	Unspecified	4211 - Planted Red Pine	Was cut in 2012 (#020-11). C72-635 submitted for Rx burn. Variance approved in Oct 2016 to drop the burn & manage the sparser portions of stands 47, 48 & 122 for RP. Those portions were split out as this new stand 57, which had herbicide applied by skidder in July 2017 followed by trenching the same month (C72-809), & RP was planted in May 2018. Yr 1 regen survey in Oct 2018 found 35.9% mortality and 87% free-to-grow. 961 initial stocking - 35.9% = 616 RP estimated stocking. Mortality varied widely and seemed to be a combination of drought stress & burying too deep (from trench wall erosion), with the poorer-developed planting stock faring the worst. A portion of the oak re-sprouted, more on the upper slopes to the north. Re-planted w/ top-pruned 4-0 bareroot RP in April 2019. Yr 1 regen survey in Oct 2019 following the replant. 8.4% mortality & 84% FTG. 1030 initial stocking - 8.4% = 943 RP established. Oak has sprouted back & is the main competitor, with denser oak regen in the NW section. Majority of the site is clean, with open trenches and RP seedlings averaging 0.9" in height.																															
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58	310 - Herbaceous Openland	Nonstocked	6.4	0	Unspecified	4222 - Natural Jack Pine	Variance approved on 9-22-2016 to change MO to planted red pine, allowing herbicide and roller chopping if necessary. North finger of the stand will not be planted and will be left to naturally regenerate with a management objective of aspen, oak. Harvested in 2014 under contract #72-039-11-01.																															
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122	310 - Herbaceous Openland	Nonstocked	16.3	0	Immature	4222 - Natural Jack Pine	OPIC - FMD: UPDATE: FTP #C72-635 SUBMITTED FOR BURN AFTER COMPLETION OF TIMBER SALE 12/31/09. Stand was shelterwood harvested, residual BA of 40 sq ft. Sale # 0060201. Understory is currently red maple clumps and aspen clones. This is the southern portion of stand 22. Quality is not as good as northern portions. Final harvest no reserves: Note that boundary line does not run adjacent to horse trail. Consider this portion a reserve area. Prescribe with stands 47 and 48. Leave some scattered red pine if available. The management objective is oak and mixed pine. Moderately stocked mixed pine with an oak component is acceptable. If natural regeneration is inadequate, plant red pine while protecting natural oak regen. Variance approved in Oct 2016 to drop the burn Rx and manage part of this stand for RP. That portion was split out as new stand 57.																															
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400	3102 - Grass	Nonstocked	8.4			No	OPIC - FMD: NORTH MICHIGAN ELECTRIC COOP. LEWIS-LOVELL TRANSION LINE.