



# Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72229

Entry Year 2020

Acreage: 1,068

County Crawford

Management Area: Ogemaw Hills

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**Revision Date:** 2018-07-11

**Stand Examiner:** Thomas Barnes

**Legal Description:**

Beaver Creek Township T25N, R03W, Sections 22, 23, and 24

**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 a mix of state and private ownership. DTE pipeline runs N/S through the west half of section 24. An active railroad runs N/S through section 23. This area is about 2 mile east of I-75.

**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, goshawk, red-shouldered hawk, 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:**

None at this time.

**Watershed and Fisheries Considerations:**

Several intermittent streams and drainages plus a portion of Mud Lake are found in this compartment.

**Wildlife Habitat Considerations:**

There are two maintained wildlife openings in section 22. The mixed conifer swamp areas provide thermal cover for deer. 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**

Sand/gravel pits are located nearby including an active operation in Section 23, bordering the compartment, and there is additional sand & gravel potential within the compartment on the uplands. Active oil & gas leases exist within the compartment, but there has been no production in the area. The parcels were leased in 2015 (by Marathon) and are due to expire in 2020. No known metallic mineral potential exists in this part of the state. The state does not own the mineral rights beneath some of the compartment. Private mineral rights owners must be allowed reasonable access to the surface should they choose to explore and/or develop the minerals.

**Vehicle Access:**

Access throughout the compartment is excellent by way of county roads.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Dispersed recreation occurs throughout the area. Part of snowmobile trail #489 and associated trail head are located in section 24. A portion of the Beaver Creek ORV trail also meanders through the northeast portion of the compartment.

**Fire Protection:**

Extreme fire behavior potential is low. There are several man made features that serve as excellent fuel breaks. Equipment operations would be limited in section 23.

**Additional Compartment Information:**

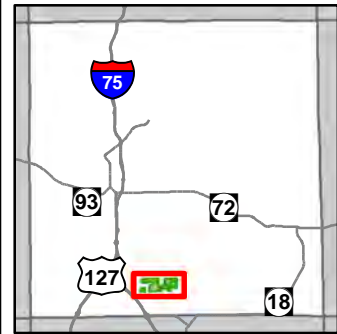
The following reports from the Inventory are attached:

- 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:

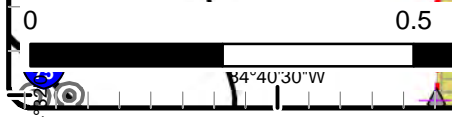
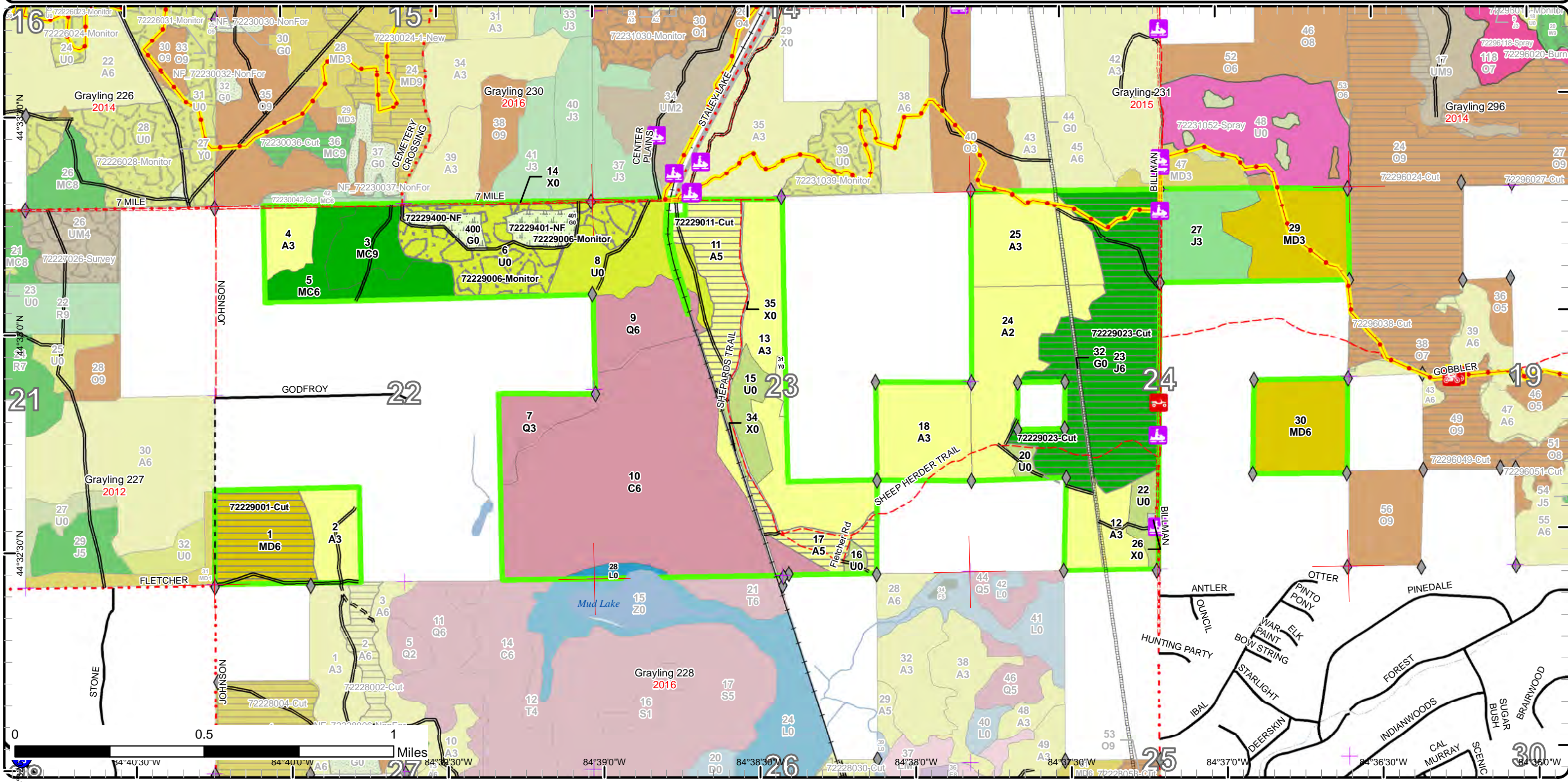
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map



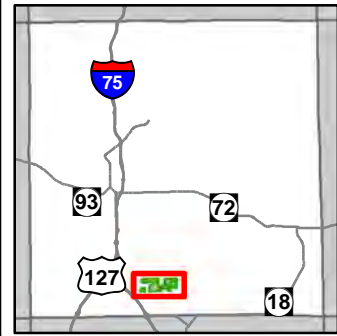
Compartment: 229  
 T25N, R03W, Sec. 22-24  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Ogemaw Hills  
 YOE: 2020  
 Acres: 1,068 GIS Calculated  
 Examiner: Thomas Barnes  
 Map Revised: 2/1/2019  
 Map Phase: Post-Review

- 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
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- 🏍️ Motorcycle Trails (DNR License)
- 🏍️ MCCCT Trails
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- ORV License & Trail Permit
- - - Designated ORV Route
- Michigan Cross Country Cycle Trail (MCCCT)
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 629 - Mixed non-forested wetland
- 710 - Sand/Soil

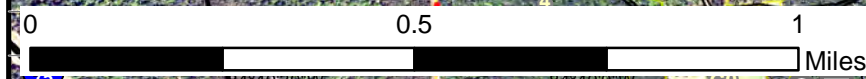
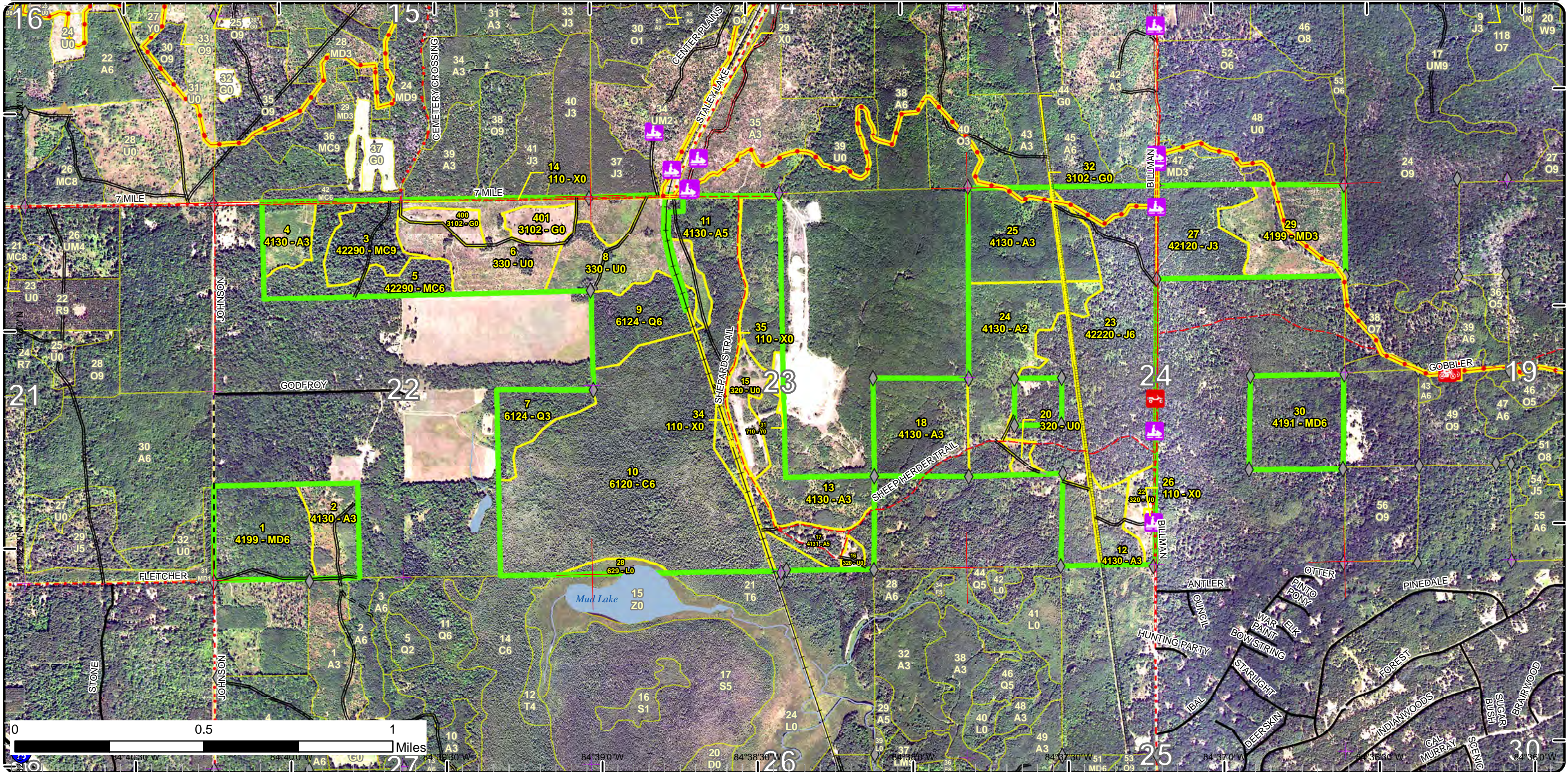


# Stand Boundary Map

Compartment: 229  
 T25N, R03W, Sec. 22-24  
 County: Crawford  
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- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
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- County - Gravel Road
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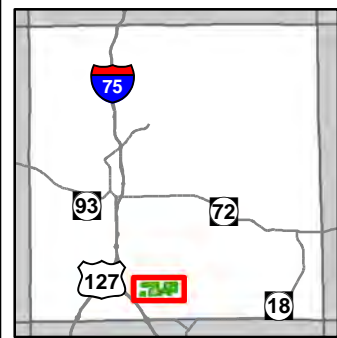


0 0.5 1 Miles

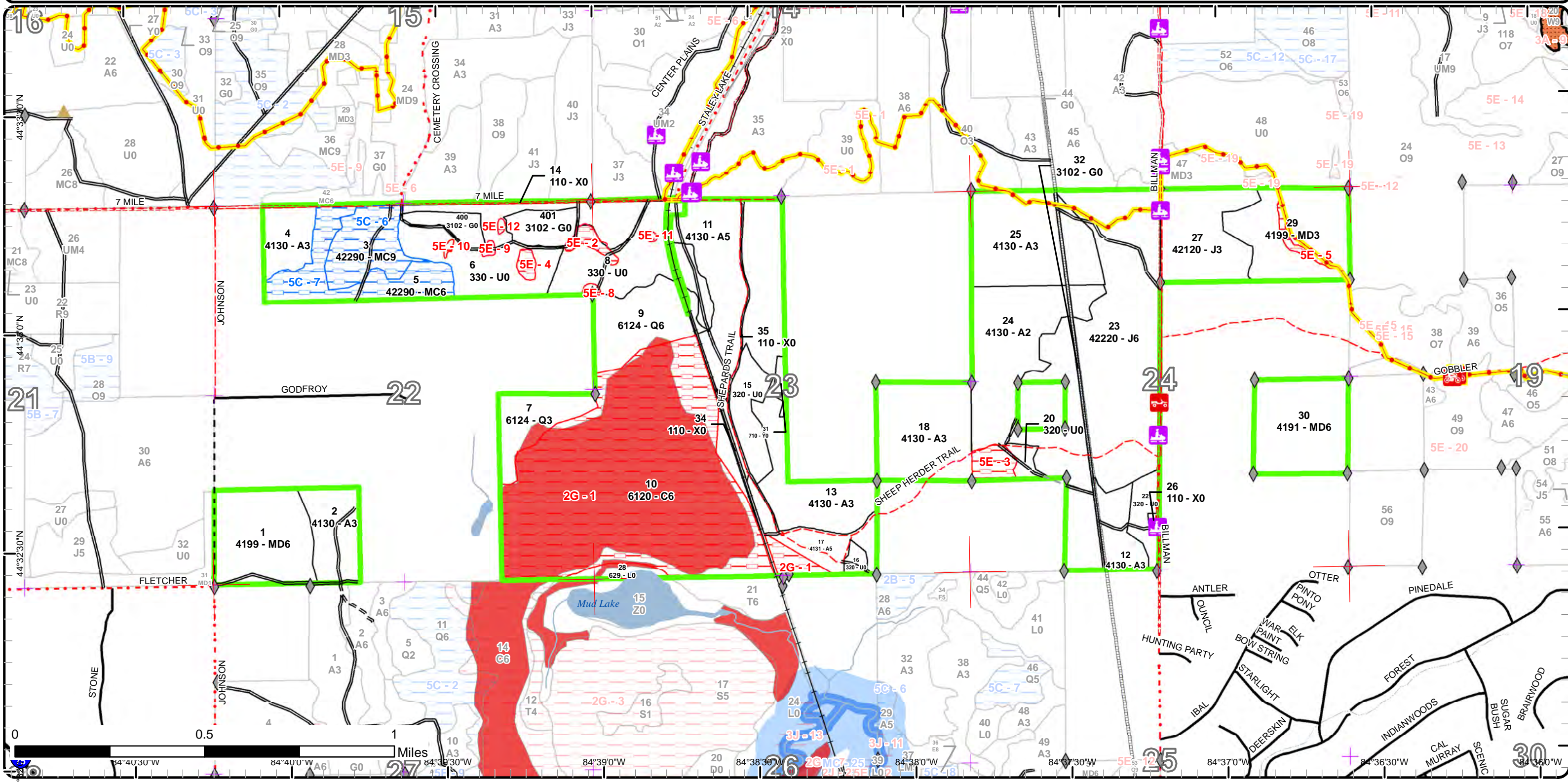
84°39'0"W 84°38'30"W 84°38'0"W 84°37'30"W 84°37'0"W 84°36'30"W

# Special Conservation Areas & Site Conditions Map

Compartment: 229  
 T25N, R03W, Sec. 22-24  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Ogemaw Hills  
 YOE: 2020  
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 Examiner: Thomas Barnes  
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- Miris Corners
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- ORV License & Trail Permit
- Designated ORV Route
- Michigan Cross Country Cycle Trail (MCCCT)
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Other Habitat Area





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	14	137	42	73	36	21	0	0	0	0	0	0	0	0	0	0	0	323
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	199	0	0	0	0	0	199
Herbaceous Openland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Jack Pine	0	0	0	0	35	0	0	0	123	0	0	0	0	0	0	0	0	0	158
Low-Density Trees	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
Lowland Conifers	0	0	0	19	0	0	0	29	0	0	0	0	0	0	0	0	0	0	48
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	44	0	0	0	40	41	0	0	0	0	0	0	0	0	0	0	0	125
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	23	0	30	0	0	0	0	0	0	53
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Shrub	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
<b>Total</b>	<b>162</b>	<b>58</b>	<b>137</b>	<b>61</b>	<b>108</b>	<b>76</b>	<b>62</b>	<b>29</b>	<b>123</b>	<b>23</b>	<b>0</b>	<b>30</b>	<b>199</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1068</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 229

Total Compartment Acres: 1,068

Commercial Harvest - 216  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	52	0	0	0	0	0	0	0	0	52
Jack Pine	123	0	0	0	0	0	0	0	0	123
Mixed Upland Deciduous	41	0	0	0	0	0	0	0	0	41
<b>Total</b>	<b>216</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>216</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	216	0	0	0	0	50	0	18		283
Next Step	0	0	0	0	0	216	0	0		216
<b>Total</b>	<b>216</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>265</b>	<b>0</b>	<b>18</b>		<b>499</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	72229001-Cut	40.6	4199 - Other Mixed Upland Deciduous	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Final harvest with retention, follow standard retention and biomass guidelines. Also include grouse drumming log spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Stand should regenerate to a mixture of aspen and red maple. Acceptable oak regen is around 10 percent. Stand should be moderate to well stocked.

Other Comment: Focus some retention near Johnson Rd and Pvt Line.

Comment:

Proposed Start Date: 10/1 /2019

6	72229006-Monitor	49.6	330 - Low-Density Trees	Nonstocked		Unspecified	Monitoring	Natural Regen (Intermediate)	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription monitor for natural regeneration and to see if there is a need for another burn.

Specs:

Next Step

Treatments:

Acceptable Regen:

Regen:

Other Comment: Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2020

11	72229011-Cut	35.7	4130 - Aspen	Poletimber Medium	45	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Final harvest with retention, follow standard retention and biomass guidelines. Use island retention. Include grouse and shrub spec. Leave all coniferous trees except jack pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Stand should regenerate to an aspen with some maple and other associated species. Stand should be moderate to well stocked.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

17	72229017-Cut	16.7	4131 - Aspen, Oak	Poletimber Medium	56	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Final harvest with retention, follow standard retention and woody biomass guidelines. Some retention could be left adjacent to private lands.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Poor to moderate stocked aspen stand with some oak and other associated species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
23	72229023-Cut	122.8	42220 - Natural Jack Pine	Poletimber Well	71	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Final harvest with retention, follow standard retention guidelines. Focus retention along perimeter and include the low stump and chipping spec, Specs: in case we need to replant. Include spec to protect MCCCT route.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regen: Acceptable regeneration is natural jack and red pine with some scatter oak and maple of moderate stocking. If stand does not naturally regenerate to a moderate density then site prep and replant to red pine.

Other Comment: If failed natural regen, then site prep as needed and replant site to red pine.

Proposed Start Date: 10/1 /2019

400	72229400-NF	7.5	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, Specs: brushing, burning and herbicide application.

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

401	72229401-NF	10.3	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, Specs: brushing, burning and herbicide application.

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment Acreage Proposed: 283.2**

## Report 4 – Site Conditions

Grayling Mgt. Unit

Thomas Barnes : Examiner

Compartment: 229

Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	5E
		With Condition	Not Available				
323	317	0	6	Aspen			6
199	0	0	199	Cedar		199	
22	22	0	0	Herbaceous Openland			0
158	158	0	0	Jack Pine			
89	81	0	8	Low-Density Trees	0		8
49	49	0	0	Lowland Conifers		0	
5	5	0	0	Lowland Shrub		0	
124	121	0	3	Mixed Upland Deciduous			3
52	0	52	0	Natural Mixed Pines	52		
2	2	0	0	Sand, Soil			
32	32	0	0	Upland Shrub			0
12	12	0	0	Urban	0		
1,068	801	52	215	Total Forested Acres	52	199	16
	75%	5%	20%	Relative Percent			

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	199	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Old notes indicate this is retention for stands 18 and 24, merged with stand 24.							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Thomas Barnes : Examiner

Compartment: 229  
Year of Entry: 2020

4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

# Report 4 – Site Conditions

Grayling Mgt. Unit  
Thomas Barnes : Examiner

Compartment: 229  
Year of Entry: 2020

11	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4199 - Other Mixed Upland Deciduous	Poletimber Well	40.6	51	81-110	<p>Mixed stand with pole to log sized stems. Stem quality is fair and it looks like at one point a harvested removed all red maple and aspen while leave larger oak stems. As older notes indicate maybe some sort of diameter limit cut. Entire stand is PARVHa/PArVVb. RM 30, Asp 50, Oak 10; RM 40, Asp 30, Oak 50; RM 10, Asp 30; Oak 10, who 20; RM 40, Asp 40, oak 10, wHo 10; Stand average is 95.</p> <p>OPIC - FMD: Browse on oak and maple seedlings. Aspen is poor to average in quality, top die back can be expected in next 10 yrs. Stand looks like it may have been treated with a diameter limit cut in the past. There looks to be a 90ish age class and a 60ish. Excellent clumps of witch hazel and june berry.</p>
2	4130 - Aspen	Sapling Well	21.0	19	Immature	<p>Poor quality and sparse. There are a couple pockets of aspen regen about 15' tall along edges of stand. Center of stand is more of a u-type with scrub cherry and bushy oak/maple stump sprouts. Entire stand is PARVHa/PArVVb (old comments) OAK IS DYING, NO ADVANCE OAK REGENERATION. HARVESTED THE WINTER OF 1999/2000(SALE#720479901, SAM'S SALE)</p>
3	42290 - Natural Mixed Pine	Sawtimber Well	22.6	83	111-140	<p>Mature stand of red and white pine. Poor to fair quality stems, with several trees over 20" DBH. Some single stem mortality but no sign HRB. Pretty good white pine regeneration of varying heights. Five BA swings were taken with stand average of 118. Entire stand is PARVHa/PArVVb.</p> <p>OPIC - FMD: Big pine in the 100 year old range. White pine diameter is a little larger than the red pine. Noticed older weevil damage but the trees are starting to grow out of it. Majority of this stand is a portion of an old sale that was not cut. Stand 33 is the same sale but that stand was thinned. This stand is a cool natural pine stand that is moving along just fine. I do not see any reason to thin. Thinning in stand 33 pretty much just took out the suppressed hardwood and pine that really weren't having much impact on the stand overall.</p>
4	4130 - Aspen	Sapling Well	14.2	7	Immature	<p>Nice young stand of as pen. There is also oak maple and cherry. n here is scattered r id pine seedlings. Entire stand is PARVHa/PArVVbOPIC - FMD: If we want to manage for aspen- recommend a final harvest-all trees 2" and up. Leave a buffer along road for retention. Aspen is a product of a salvage cut in the early 60's and is found in pockets. The bigger white/red pine trees found in this area are in the 100yr range. There are a couple areas of heavy/dense white pine regen. Some scattered oak and maple. The management objective for this stand is aspen but, will accept a moderate to fully stocked mixed stand consisting of aspen, maple, oak, and mixed pine. If natural regen fails, plant this stand to red pine. 2013: Stand was harvested spring-summer 2012 under contract 72-030-10-01 Bird Jumper Aspen. Strip along 7 Mile road left.</p>
5	42290 - Natural Mixed Pine	Poletimber Well	29.7	109	81-110	<p>Entire stand is PARVHa/PArVVb. A good amount of hawthorne found in the understory. There are open areas with very dense white pine regen. Scattered sawlog size pine. Over all the timber quality in the stand is poor. Did not notice any recent weevil damage to white pine. The stand seems to have a two aged structure to it.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
7	6124 - Lowland Spruce- Fir	Sapling Well	19.3	25	Immature	Only walked the eastern edge. Many trees pushing 25-30' tall. Several clumps of red maple and aspen among a fairly consistant stand of fir and some black spruce. Thick but open enough to walk through. Open water found in stand during winter. Kotar classification of Unclassified Lowland for entire stand.
9	6124 - Lowland Spruce- Fir	Poletimber Well	29.4	69	51-80	Mixed lowland stand with nice component of cedar. Cedar of log size, remainder of species sapling to pole. Numerous areas of standing water and tag alder. Some deer activity. Understory is mostly fir and spruce. Kotar classification of Unclassified Lowland for entire stand. Three BA swings taken stand average of 55. OPIC - FMD: A variable stand. There are open areas with alder, dense pockets of Q3, and a hardwood component found scattered throughout fir and black spruce. Many unmerch-size fir and spruce. Did not notice much deer activity. Areas of open water especially along the pvt line - drainage tiles in adjacent field? Most of the e-type that had been found during previous stand examinations has died.
10	6120 - Lowland Cedar	Poletimber Well	198.9	118	81-110	Open water found throughout (in Feb). Cedar seems to be in fairly decent shape. There is quite a bit of blow down. The water has a greater influence on timber type and quality the farther south in the stand you go. Tough walking. Seven BA swings were taken with stand average of 93. Kotar classification of Unclassified Lowland for entire stand.
11	4130 - Aspen	Poletimber Medium	35.7	45	51-80	Poor quality aspen with mortality and stems with conks on them. There is some jack pine and fir mixed in as well as hawthorne. Kotar classification for this stand is a mixture of PARVHa/PArVVb, PARVHa and Unclassified wetland. OPIC - FMD: Poor looking stand, hit heavy by Hypox. Already several trees w/ dead tops- several more are on their way. Should make an A6 next year of entry.
12	4130 - Aspen	Sapling Well	25.0	30	Immature	Not very good looking aspen. Hypox present. Some open areas w/ jack pine and cherry. A conifer component is present, a few oak mixed in as well. A couple wet areas in SW along the pipeline. The good pockets are 20' tall. Tag alder along south in prop line. Kotar classification for this stand is a mixture of PARVHa/PArVVb and Unclassified wetland.
13	4130 - Aspen	Sapling Well	60.3	19	Immature	Nice young stand of primarily aspen, with mixed associated species. There are some small opening with mast producing shrubs. Kotar classification for this stand PARVHa/PArVVb.  OPIC - FMD: 2008: Averages 10' in height. Oak stump sprouts scattered in stand. There are open u-type areas w/ poor aspen regen, cherry and scrub oak. A minor component of mixed conifer. (old comments) HEAVY HYPOXYLON CANCKER. WINTER CUT. HARVESTED SPRING OF 2000(SALE # 720189901, ASPEN TRACK).





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	4131 - Aspen, Oak	Poletimber Medium	20.8	56	51-80	Mixed stand of oak and poor quality aspen. Age of stand was averaged for both oak and aspen. Understory has a nice diversity of shrub species. As per old OI comments this stand will be kept as retention for the area. Kotar classification for this stand is a mixture of PArVHa/PArVVb and PArVHa. OPIC - FMD: Oak was used for the age of the stand (1920). Sawlog oak with areas of A4. Some clumps of red maple. Fir is starting to seed in from stand 10. Hawthorne, service berry, witch hazel present in understory. Save stand as a retention island for the area, this stand was left after most of this area of the compartment was treated.
18	4130 - Aspen	Sapling Well	41.5	28	Immature	Nice aspen stand of pole size with u good component of saplings. clump oak and maple stems. Kotar classification for this stand is PArVHa/PArVVb. OPIC - FMD: Areas of nice A3 approx 30' tall. There are open areas of O1/U1 with scattered red maple. There is an island of oak along Sheep Herders Trl.
23	42220 - Natural Jack Pine	Poletimber Well	122.8	71	81-110	Stand is primarily pole and small saw log jack pine of poor to fair quality. Some oak and and red pine scattered throughout. Some pockets of less dense or open as well as smaller diameter. Understory is mixture of upland shrubs and oak in low to medium densities. Alot of deer tracks in the snow. MCCCT trail runs through the northern portion of this stand. Ten BA swings were taken with a stand average of 85. Kotar classification for this stand is PArVHa/PArVVb. OPIC - FMD: Pockets of mature J6 mixed in with pockets of 30 year old jack pine. Looks like there may have been a couple disturbances in the 60's and 70's? The timbersale log shows "improvement" cuttings in this area around this time frame. Open u-types mixed in her and there. Looks like some old gravel pits can be found in here too? With all of the recent treatments would recommend leaving stand "as is" for now and consider treating next year of entry. Some mortality in the older jack pine is expected but, the stand over all should be able to hold another 10.
24	4130 - Aspen	Sapling Medium	56.3	19	Immature	Fairly poor stems/acre. The aspen is patchy and poorly formed. The open areas contain cherry, red maple, and oak. Browse is evident. Some hawthorne present. The better looking aspen is reaching 10' tall. Kotar classification for this stand is PArVHa/PArVVb. (old comments - NEED TO TREAT THE ASPEN IT IS DYING. WINTER CUT ONLY. HARVESTED SPRING OF 2000( SALE# 720189901, ASPEN TRACK)
25	4130 - Aspen	Sapling Well	48.2	30	Immature	Nice you my a spa stand enter in pole size w/oak and maple mixed in. Kotar classification for this stand is a PArVHa/PArVVb. OPIC - FMD: Patchy regen upt 30' tall. Open areas contain sweetfern, oak and cherry. Hypox present.
27	42120 - Planted Jack Pine	Sapling Well	34.7	30	Immature	Young jack pine stand w/dump oak sprouts. Some cherry and maple regeneration as well. Kotar classification for this stand is PArVHa/PArVVb.  OPIC - FMD: Some areas could be called a J3- but on average it is a J2 working on becoming a J4. More of an oak aspen type in the northern portions of stand. There is a 2 acre piece of J6 now about 40yrs old left from cut in SE corner.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	4199 - Other Mixed Upland Deciduous	Sapling Well	43.5	9	Immature	Stand is regenerating to a mixture of oak, aspen and maple with other deciduous shrubs as well. FTP C72-683 was canceled. Kotar classification for this stand is PARVHa/PArVVb and PVCd/PArVHa. OPIC - FMD: Harvested 2010 "Baby Girl Oak" #720181001. FTP#C72-683 for planting around regen has been submitted for approval. Some rolling hills. A cycle trail runs through this stand. Heavy browse and other deer activity. Some scattered advanced rp and wp regen present(leave, do not damage during sale). A very poor looking stand in severe decline. Dead snags and tree tops throughout. Extensive illegal fuel wood cutting is occurring along the cycle trail. Final harvest w/ reserves- Use leave islands to protect the cycle trail and to help with aesthetics. Try to obtain some oak stump sprout regeneration. After sale is complete, trench and plant mixed pine around natural regen. Management objective is oak but will accept any moderate to fully stocked stand containing an oak component.
30	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	39.6	48	81-110	Stand was approved at Comp Review to be declared as surplus. Stand is a mixed pole stand with log sized white and hybrid oak. Western third of stand is primarily Jack pine and oak with higher stem density. Remainder of Stand is dominated by aspen poles with oak Saw log trees. Fairly good oak regeneration in areas with les stem density. No legal access to stand. Kotar classification for this stand is PARVHa/PArVVb and PVCd/PArVHa. OPIC - FMD: Potential parcel for disposal. Did not visit stand. Basal area estimated. Legal access?



Stand	Cover Type	Acres	Managed Site	General Comments:
6	330 - Low-Density Trees	51.4		Portion of stand was burned in late summer of 2017, under FTP W72-771. Added a natural regen treatment to this stand to take place in 2021. Entire stand is PARVHa/PArVVbOPIC - FMD: UPDATE: FTP C72-634 submitted for review 12/29/09, this is a potential 2013 burn. Pockets of bigger mature aspen found throughout. The two trees cored were about 40 yrs old. This stand has a nice component of down woody debris. A few areas of very dense hawthorne. Some grouse activity around the aspen pockets. Recommend a final harvest w/ reserves. Leave a couple islands to help influence aesthetics (try to favor areas w/ a healthy oak component for islands). Would like try and obtain natural regeneration. Require trees to be de-limbed in sale area or else leave tops. Prescribe burn area after sale to reduce slash and promote jack pine regen. Management objective for this stand is jack pine but will accept a moderate to fully stocked stand consisting of jack pine, aspen, oak, maple, red pine, and white pine. If natural regen fails manage as a u-type. Was cut 2" & up in 2012 under 72-023-10-01.
8	330 - Low-Density Trees	38.0		This stand was separated from stand 6 as it was not part of the prescribed burn that took place in 2017. Regeneration is coming back in a species mixture consistent with the management objective. Stand should pass regen survey, but going to keep monitoring treatment on. Stand will be checked again when stand 6 is rechecked. Stand is bisected by railroad. Kotar classification for this stand is a mixture of PARVHa/PArVVb, PARVHa and Unclassified wetland. OPIC - FMD: UPDATE: FTP C72-634 submitted for review 12/29/09, this is a potential 2013 burn. Pockets of bigger mature aspen found throughout. The two trees cored were about 40 yrs old. This stand has a nice component of down woody debris. A few areas of very dense hawthorne. Some grouse activity around the aspen pockets. Recommend a final harvest w/ reserves. Leave a couple islands to help influence aesthetics (try to favor areas w/ a healthy oak component for islands). Would like try and obtain natural regeneration. Require trees to be de-limbed in sale area or else leave tops. Prescribe burn area after sale to reduce slash and promote jack pine regen. Management objective for this stand is jack pine but will accept a moderate to fully stocked stand consisting of jack pine, aspen, oak, maple, red pine, and white pine. If natural regen fails manage as a u-type. Was cut 2" & up in 2012 under 72-023-10-01.
14	110 - Low Intensity Urban	5.3	No	Seven Mile Road
15	320 - Upland Shrub	16.6	No	Old inventory comments still apply. Kotar classification for this stand is PARVHa/PArVVb. OPIC - FMD: Open area. The county dropped stumps along the road to prevent off road vehicles from accessing the adjacent pvt mineral pit. There are areas of sweetfern, scattered cherry, pockets of aspen clones. There is an island of mature oak. Looks like area is being used as a shooting range. SI from adjacent stand.
16	320 - Upland Shrub	2.6	No	Open area with a nice presence of war in season grass. Scattered trees, including hawthorny aspen and cherry. Kotar classification for this stand is PARVHa/PArVVb.  OPIC - FMD: Filled w/ sweetfern and hawthorne. Scattered cherry aspen and oak.
20	320 - Upland Shrub	3.7	No	Filled w/ sweetfern and hawthorne. Scattered cherry aspen and jack. Some warm seas grass is present. Kotar classification for this stand is a mixture of PARVHa/PArVVb and PARVHa. OPIC - FMD: Filled w/ sweetfern and hawthorne. Scattered cherry aspen and jack.
22	320 - Upland Shrub	9.3	No	North end of stand is starting to fill in w/ jack pine. Southern part of stand is more open and has the snowmobile parking lot. Scattered cherry. Open areas contain mainly sweetfern. A couple big oaks. Kotar classification for this stand is PARVHa/PArVVb.



Stand	Cover Type	Acres	Managed Site	General Comments:
26	110 - Low Intensity Urban	0.6	No	Snowmobile parking lot. Start of trail# 489
28	629 - Mixed non-forested wetland	5.3	No	Cattail and tag alder swamp. Stand surrounds Mud Lake. Used aerial photo and data from Stand 24 of Comp 228. Kotar classification for this stand is Unclassified wetland. OPIC - FMD: Did not visit stand. Photo interp.
31	710 - Sand, Soil	2.4	No	Gravel stock piled as per letter dated 8/21/2000, in compartment reference folder. Kotar classification for this stand is PArVHa/PArVVb.
32	3102 - Grass	4.4	No	DTE Pipeline.
34	110 - Low Intensity Urban	3.7	No	Rail road tracks.
35	110 - Low Intensity Urban	2.4	No	Shepard Trail Rd
400	3102 - Grass	7.5	Yes	Managed wildlife opening, burned in the late summer of 2017. Kotar classification for this stand is PArVHa/PArVVb. OPIC - FMD: UPDATE: FTP C72-634 submitted for review 12/29/09, this is a potential 2013 burn. A maintained wildlife opening. Scotch and jack pine starting to expand along the edges. Should try to pick up these brushy edges while cutting stand 31. Also burn with surrounding stands after harvest is complete. Prescription applied in tsale 72-023-10-01. JC update: was mowed in 2014 (C72-671). The stand is also part of burn FTP W72-771.
401	3102 - Grass	10.3	Yes	Managed wildlife opening that was burned in late summer of 2017.  Kotar classification for this stand is PArVHa/PArVVb.  OPIC - FMD: UPDATE: FTP C72-634 submitted for review 12/29/09, this is a potential 2013 burn. A maintained wildlife opening. Scotch and jack pine starting to expand along the edges. Should try to pick up these brushy edges while cutting stand 6. Center of stand is developing into a u-type. Burn with surrounding stands when harvest is complete. Prescription applied in tsale 72-023-10-01, 8/13/12. JC update: was mowed in 2014 (C72-671). The stand is also part of burn FTP W72-771.