



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72069

Entry Year 2017

Acreage: 2,376

County Iosco

Management Area: Wurtsmith

**Revision Date:** 2015-07-29

**Stand Examiner:** Matthew Foster

### Legal Description:

T24N, R08E, Sections 3, 10, 15, 22, and 27

### Identified Planning Goals:

The emphasis of management shall be on retaining and enhancing the natural beauty and biological diversity of the area, and enhancing wildlife habitat for both hunting and wildlife observation purposes while maintaining forest health, productivity, sustainability, species and structural diversity while providing for multiple use and visual management.

### Soil and topography:

Soil types within the compartment consist of Graycalm, Grayling Sands and Tawas muck. The topography within the compartment is flat to slightly gently rolling, with a couple of valleys that bisect the compartment in an east/west direction.

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

The compartment is all state owned. The ownership surrounding the compartment to the west and south along Bissonette Road is privately owned and subdivided with year around residence. A private hunting camp and an Old Indian Cemetery lie just to the north and northeast of the compartment. The state land is used for hunting and other dispersed recreation.

### Unique Natural Features:

None.

### Archeological, Historical, and Cultural Features:

One archaeological site is located in Section 27, however it is located just outside of the compartment and will not be a concern.

### Special Management Designations or Considerations:

Maintain Oak across the landscape.

### Watershed and Fisheries Considerations:

Coppler Creek bisects the middle of Section 10.

### Wildlife Habitat Considerations:

This area is west of the Seven Mile Swamp winter deeryard. Therefore, deer is a priority wildlife species for the compartment. An objective would be to expand Aspen type and maintain healthy Oak type for mast production. Other wildlife species that will benefit from this would be squirrel, grouse and wild turkey.

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

Surface sediments consist of lacustrine sand and gravel and fine-textured glacial till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. There are few known gravel pits in the area, but potential appears to be good. There are no producing wells in the county. However, the entire compartment is currently leased for oil and gas development.

### Vehicle Access:

Several county roads, both seasonal and non seasonal provide access to the compartment. These county roads include Bissonette Road, Merton Road, Pine Road and Indian Road. Other two tracks and trails access off of these main roads into the compartment also.

### Survey Needs:

None.

### Recreational Facilities and Opportunities:

Recreational facilities include an ORV parking lot located in the northwest of the northeast of section 27. The designated snowmobile trail traverses through the north half of section 27 and the south half of section 22. Also, the ORV trail

traverses through the west half of the compartment. Many recreational opportunities exist within the compartment besides snowmobiling and ORV's. These include hunting, bird watching, mushrooming and hiking.

**Fire Protection:**

Fire protection is the responsibility of the Lincoln DNR Fire Station and the surrounding volunteer fire departments. Several county roads surround the compartment as well as traverse through the compartment and several two tracks off of these county roads provide access for fire equipment. Coppler Creek in section 10 provides the closest water source. The Foot Dam Pond on the AuSable River to the south of the compartment could also provide a water source for fire suppression efforts.

**Additional Compartment Information:**

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

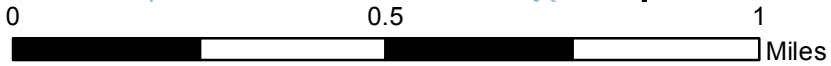
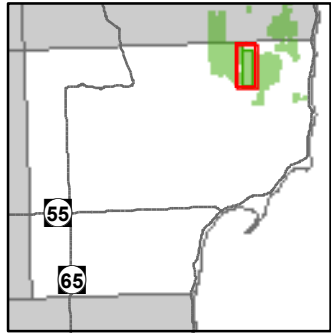
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

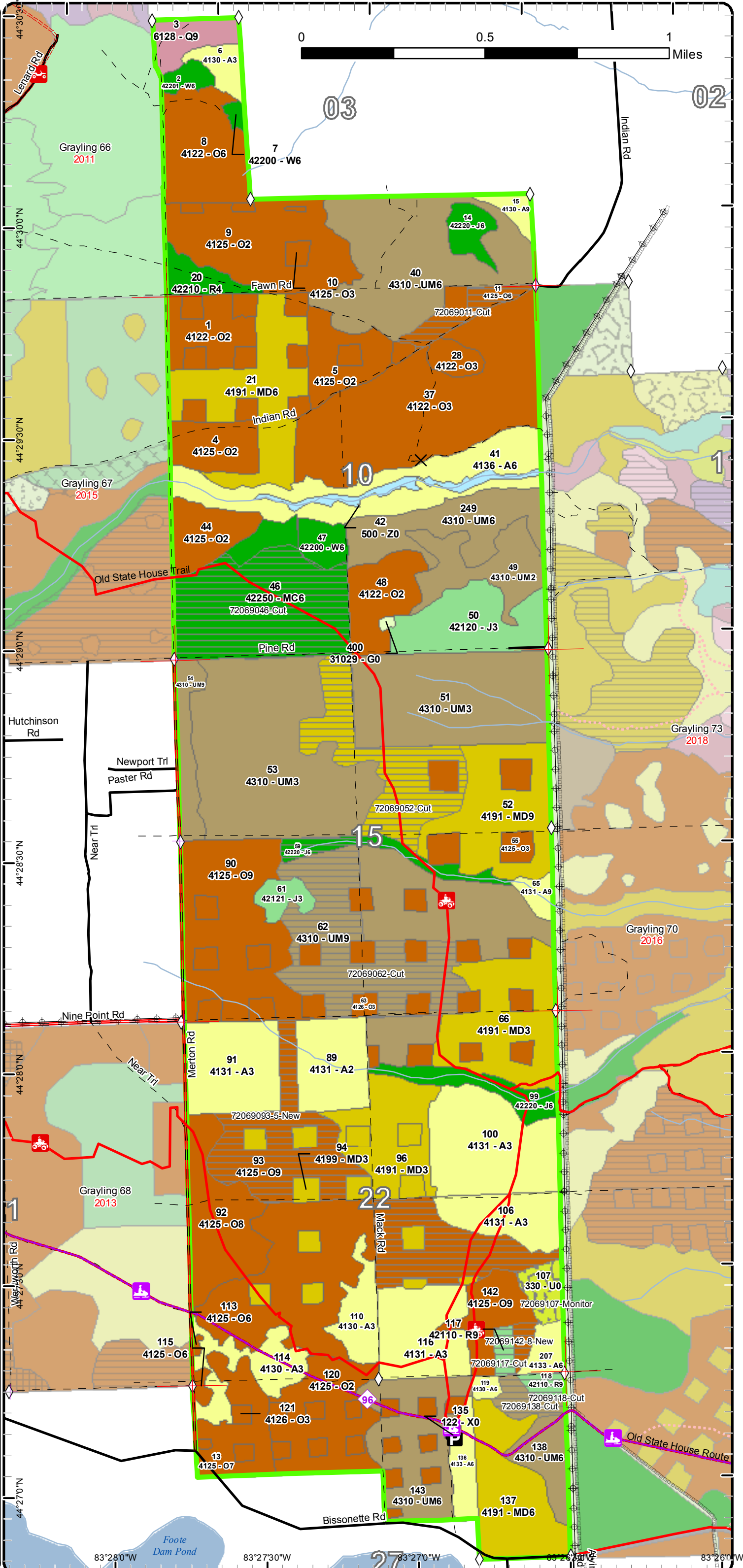
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments

Compartment: 69  
 T24N,R08E, Sec. 03, 10, 15, 22, 27  
 County: Iosco  
 Unit: Grayling  
 Mgmt Area: Wurtsmith  
 YOE: 2017  
 Acres: 2376 GIS Calculated  
 Examiner: Matthew Foster  
 Map Revised: 10/13/2015  
 Map Phase: Review



- ✚ Remonumented Section Corner
- ◇ Field Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Closed Roads
- ✕ Gate
- P Parking Lot
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV
- Designated ORV Routes
- Designated Snowmobile Trails
- Rivers
- Lakes
- Pipeline
- Powerline
- Treatments
- Clearcut (w/Reserves)
- Regeneration Survey
- Forest Covertype
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Fores
- 612 - Lowland Coniferous Forest
- Non-Forest Covertype
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water

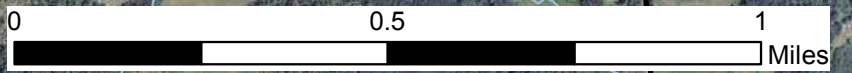
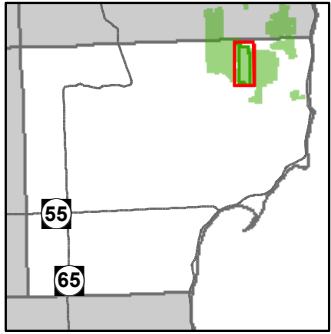


83°28'0"W 83°27'30"W 83°27'0"W 83°26'30"W

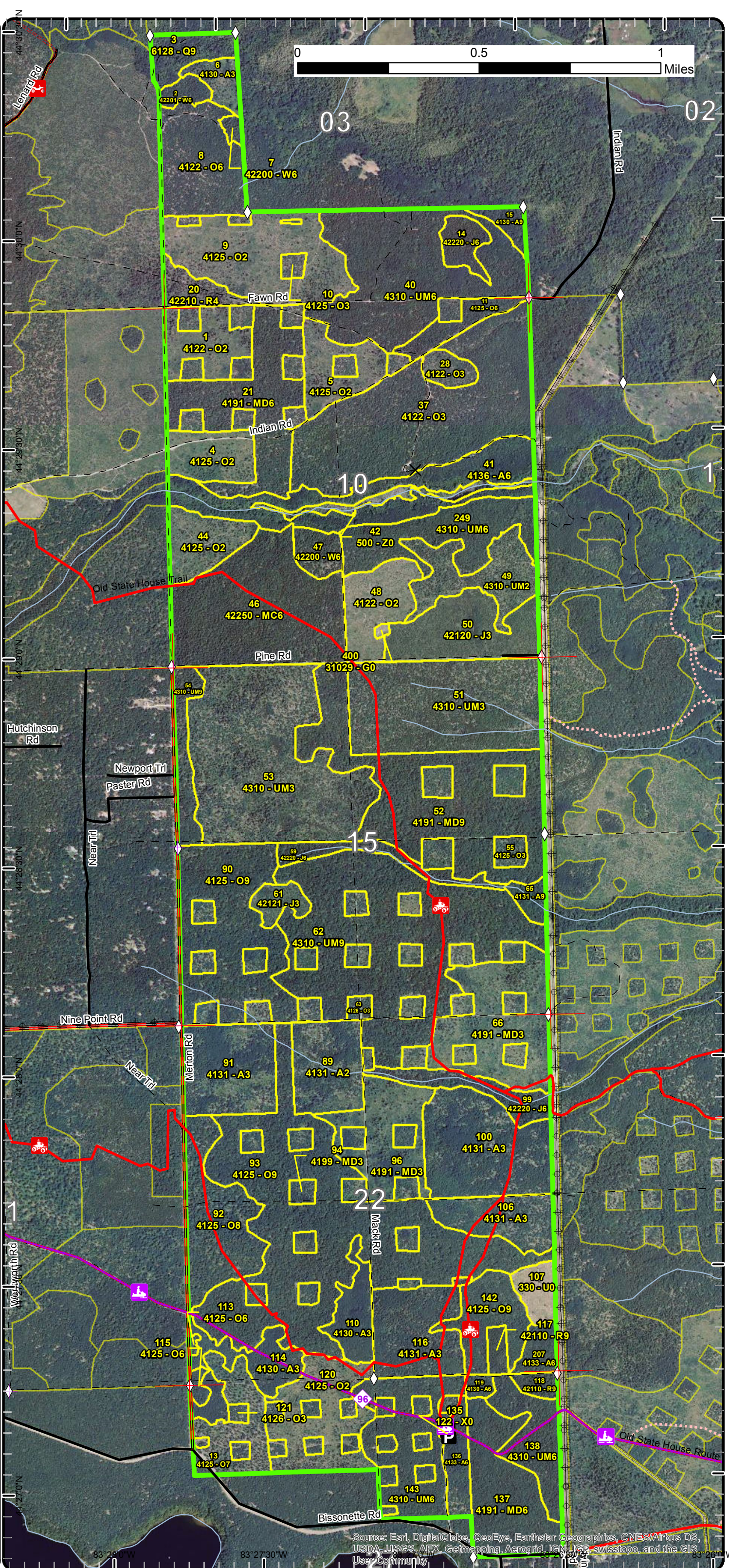


# Stand Boundary Map

Compartment: 69  
 T24N,R08E, Sec. 03, 10, 15, 22, 27  
 County: Iosco  
 Unit: Grayling  
 Mgmt Area: Wurtsmith  
 YOE: 2017  
 Acres: 2376 GIS Calculated  
 Examiner: Matthew Foster  
 Map Revised: 8/19/2015  
 Map Phase: Review



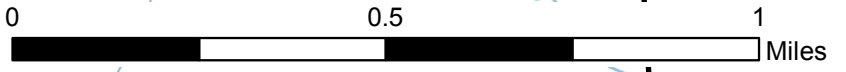
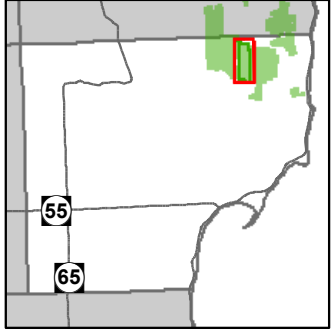
- ⊕ Remonumented Section Corner
- ◇ Field Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
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- Non-Forest Coverture
  - 122 - Roads/Parking Lot
  - 310 - Herbaceous Openland
  - 330 - Low Density Trees
  - 500 - Water





# Special Conservation Areas & Site Conditions Map

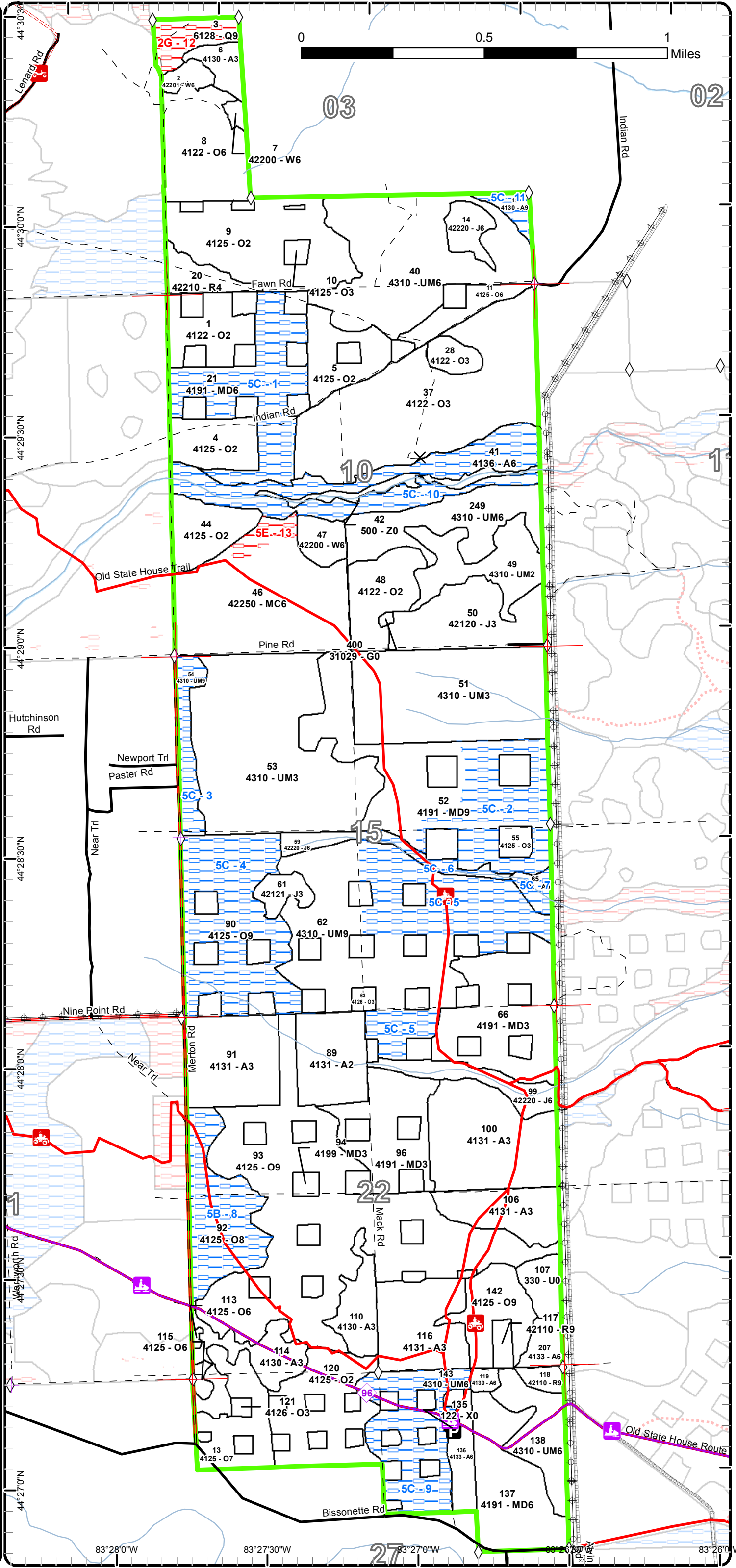
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- Designated ORV Routes
- Designated Snowmobile Trails
- Rivers
- Pipeline
- Powerline
- Stand Boundaries
- Site Condition
- Available w/ Constraints
- Unavailable

**Available Factors W/ Constraints**  
 5B: Maintain for regeneration purposes  
 5C: Delay treatment for age/size class diversity or exceptional site quality

**Unavailable Factors**  
 2G: Too wet (sensitive soils, does not include access issues)  
 5E: Long-Term Retention  
 Special Conservation Areas  
 Cold Water Streams



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	9	66	178	12	62	6	0	0	6	0	0	0	0	0	0	0	0	339
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	48	0	10	0	17	13	0	0	0	0	0	0	0	0	0	0	88
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	91	29	0	47	0	0	0	0	158	0	0	0	0	0	0	0	0	325
Natural Mixed Pines	0	0	0	0	0	0	0	0	89	0	0	0	0	0	0	0	0	0	89
Oak	0	213	134	118	42	0	0	0	0	64	290	0	0	0	0	0	0	0	861
Red Pine	0	0	0	0	0	0	0	11	9	0	0	0	0	0	0	0	0	0	20
Upland Mixed Forest	0	0	153	85	91	0	26	0	42	60	141	0	0	0	0	0	0	0	598
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	6	10	0	2	0	0	0	0	0	0	0	0	0	18
<b>Total</b>	<b>22</b>	<b>313</b>	<b>430</b>	<b>381</b>	<b>202</b>	<b>68</b>	<b>59</b>	<b>24</b>	<b>142</b>	<b>288</b>	<b>431</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2374</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 69

Total Compartment Acres: 2,376

Commercial Harvest - 338  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Mixed Upland Deciduous	51	0	0	0	0	0	0	0	0	51
Natural Mixed Pines	81	0	0	0	0	0	0	0	0	81
Oak	111	0	0	0	0	0	0	0	0	111
Red Pine	9	0	0	0	0	0	0	0	0	9
Upland Mixed Forest	86	0	0	0	0	0	0	0	0	86
<b>Total</b>	<b>338</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>338</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	338	0	0	0	0	0	10	0	0	348
Next Step	0	112	102	0	0	32	450	0	0	697
<b>Total</b>	<b>338</b>	<b>112</b>	<b>102</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>461</b>	<b>0</b>	<b>0</b>	<b>1045</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
11	72069011-Cut	11.8	4125 - Black, N. Pin Oak	Poletimber Well	80	81-110	Harvest	Clearcut	412 - Oak Types	Even-Aged	Proposal - Approval Pending Edits

**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand with no retention due to small stand size. Protect Indian Road.

Specs:

Next Step

Treatments:

Acceptable Oak, aspen, pine

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

46	72069046-Cut	80.6	42250 - Pine, Oak	Poletimber Well	70	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No****Site Condition:**

Prescription Clear cut all trees two inches and greater in diameter. Require the tops to be chipped to facilitate planting operations. Protect the recreation trail

Specs: during the harvest. Retention is a portion of the remanding parent stand. Protect some pockets of advanced oak regeneration when harvesting, trenching, and planting.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable A fully stocked stand of planted red pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

52	72069052-Cut	51.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	88	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No****Site Condition:**

Prescription Clear cut all trees 2 inches and greater in diameter. Leave all white oak, red pine and white pine. Leave multiple small retention islands that total

Specs: 3-10 percent of the harvest acreage. Protect recreation trail during harvesting operations.

Next Step

Treatments:

Acceptable A fully stocked stand of oak, aspen, jack pine and mixed conifer.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

62	72069062-Cut	77.5	4310 - Pine, Oak Mix	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	4310 - Pine, Oak Mix	Even-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest with island retention. Require that tops be skidded to get mixed oak, jack pine regeneration. Focus retention around longer lived

Specs: species (red pine). Protect ORV trail.

Next Step

Treatments:

Acceptable Oak, jack pine, aspen

Regen:

Other Treatment covers west portion of stand 59. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
93	72069093-5-New	95.3	4125 - Black, N. Pin Oak	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	Proposal - Approval Pending Edits

**Habitat Cut: No**

**Site Condition:**

Prescription Final harvest stand following standard retention guidelines. Focus retention around longer lived species (red pine). Protect ORV trail during harvest, also focus some retention near the ORV trail.

Next Step  
Treatments:

Acceptable Any combination of oak, aspen, and pine.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

107	72069107-Monitor	10.2	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Year 1 artificial regeneration survey will be sourced by TMS.  
Specs:

Next Step Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping; Pesticide, Aerial  
Treatments:

Acceptable red pine  
Regen:

Other FTP C72-611 Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2014

117	72069117-Cut	4.5	42110 - Planted Red Pine	Sawtimber Well	70	171-200	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No**

**Site Condition:**

Prescription Clear cut all trees two inches and larger in diameter. Chip tops to facilitate planting operations. No retention due to small stand size. Sign and protect the ORV trail during harvesting operations.

Next Step Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching  
Treatments:

Acceptable A fully stocked planted stand of red pine  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

118	72069118-Cut	4.9	42110 - Planted Red Pine	Sawtimber Well	70	171-200	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No**

**Site Condition:**

Prescription Clear cut all trees two inches and larger in diameter. Chip tops to facilitate planting operations. No retention. Sign and protect the ORV trail during harvesting operations.

Next Step Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching  
Treatments:

Acceptable A fully stocked stand of planted red pine.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
138	72069138-Cut	8.5	4310 - Pine, Oak Mix	Poletimber Well	55	1-50	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal - Approval Pending Edits

**Habitat Cut: No**                      **Site Condition:**

Prescription Final harvest and plant to red pine with adjacent stands. No retention due to small treatment area and conversion to red pine. Require tops to be chipped for planting operations. Sign and protect ORV route.

Next Step SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable A fully stocked red pine plantation.

Other Old next step comments:

Proposed Start Date: 10/1 /2016

142	72069142-8-New	3.7	4125 - Black, N. Pin Oak	Sawtimber Well	83	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal - Approval Pending Edits
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**Habitat Cut: No**                      **Site Condition:**

Prescription Final harvest portion of the stand with adjacent stands and replant to red pine. Require tops to be chipped. No retention due to small treatment area and conversion to red pine. Sign and protect the ORV trails during harvesting operations.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial

Acceptable Fully stocked red pine stand.

Other Old next step comments:

Proposed Start Date: 10/1 /2016

**Total Treatment Acreage Proposed: 348.2**



## Report 5 – Site Conditions

Grayling Mgt. Unit  
Matthew Foster : Examiner

Compartment: 69  
Year of Entry: 2017

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	2G	5E
		With Condition	Not Available					
338	265	<b>73</b>	0	Aspen		<b>73</b>		
1	1	<b>0</b>	0	Herbaceous Openland				
89	81	<b>7</b>	0	Jack Pine		<b>7</b>		
10	10	<b>0</b>	0	Low-Density Trees				
14	0	<b>0</b>	14	Lowland Conifers			14	
325	218	<b>107</b>	0	Mixed Upland Deciduous		<b>107</b>		
89	80	<b>0</b>	8	Natural Mixed Pines				8
861	745	<b>117</b>	0	Oak	<b>44</b>	<b>73</b>		
21	21	<b>0</b>	0	Red Pine		<b>0</b>		
600	470	<b>129</b>	0	Upland Mixed Forest		<b>129</b>		
1	1	<b>0</b>	0	Urban				
10	10	<b>0</b>	0	Water				
18	18	<b>0</b>	0	White Pine				
2,376	1,920	<b>434</b>	22	Total Forested Acres	<b>44</b>	<b>390</b>	14	8
	81%	<b>18%</b>	1%	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	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	55	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold stand until year of next entry							
2	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	51	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold this half of the stand until next year of entry.							

## Report 5 – Site Conditions

Grayling Mgt. Unit

Compartment: 69

Matthew Foster : Examiner

Year of Entry: 2017

3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	73	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>	69	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold and harvest into the stand when adjacent stands are harvested.							
8	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 5 – Site Conditions

Grayling Mgt. Unit

Matthew Foster : Examiner

Compartment: 69

Year of Entry: 2017

9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	61	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> MA plan calls to hold aspen to age 60. Fisheries also suggests a 300ft no clear cut buffer along Coppler Creek, this is not a no cut buffer. Work with Fisheries Division on any future harvest in this stand.							
11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold and harvest with adjacent stand in the future.							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 6 – 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 7 – 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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4122 - Oak, Pine	Sapling Medium	21.5	5	Immature	Stand harvested in 2010 under contract #72-030-07-01. Very good oak and jack pine natural regeneration. Stump sprouts are above the browse line and the rest is getting close. Pole/log sized red and white pine were left from the harvest.
2	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	5.5	40	81-110	White pine mixed with some aspen and oak. A couple of pockets of witch hazel are in the understory.
3	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	14.3	100	111-140	Cedar stand with large White Pine super canopy. Stand also has a mix of hardwoods within it. Multiple streams/creeks running through the stand on to private to the north. A few areas have dense strips of Balsam Fir. Small pocket of aspen/oak in SW corner of the stand on downward slope into the swamp is included.
4	4125 - Black, N. Pin Oak	Sapling Medium	20.7	5	Immature	Stand harvested in 2010 under contract #72-030-07-01. Nice oak/jack pine mix regenerating. Pole sized white pine was left from harvest, some areas are being browsed.
5	4125 - Black, N. Pin Oak	Sapling Medium	22.5	5	Immature	Stand harvested in 2010 under contract #72-030-07-01. Good oak regeneration mixed with jack pine and aspen pockets. Scattered mature red and white pine left from the harvest. Some spots have heavy deer browse.
6	4130 - Aspen	Sapling Well	9.1	5	Immature	Stand harvested in 2010 under contract #72-030-07-01. Good aspen regeneration mixed with white pine that was left from the harvest.
7	42200 - Natural White Pine	Poletimber Well	2.4	70	81-110	Small white pine stand with some red maple and white pine in the understory.
8	4122 - Oak, Pine	Poletimber Well	42.3	36	1-50	Stand was established in 1979 following final harvest. Trees are just reaching pole size, more open areas in the stand are filling in with oak saplings.
9	4125 - Black, N. Pin Oak	Sapling Medium	60.4	5	Immature	Stand harvested in 2010 under contract #72-030-07-01. Very good oak regeneration mixed with some jack pine and aspen. Scattered white pine and a few red pine were left from the harvest. Heavy deer browsing in some spots.
10	4125 - Black, N. Pin Oak	Sapling Well	33.3	16	Immature	Spot harvests cut in 1999 under contract 72-039-98-01. Species composition varies slightly at each spot.
11	4125 - Black, N. Pin Oak	Poletimber Well	11.8	80	81-110	New stand added, was not harvested at the same time stand to the north was. Oak is old and in rough shape, should be final harvested.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	4125 - Black, N. Pin Oak	Sawtimber Poor	27.0	85	1-50	Stand harvested in 2009 under contract 72-041-07-01. This stand was split from stand 120, this portion was seed tree. Green marked oak trees were left standing from harvest, understory has a mix of oak, jack pine and aspen regenerating. SW corner of the stand is an O6 that was not harvested but is included in this stand.
14	42220 - Natural Jack Pine	Poletimber Well	10.0	36	Unspecified	Harvested in 1979 under contract 5-78A. Jack pine just reaching pole size, some pockets look like they may have been planted. Oak saplings are found in the understory.
15	4130 - Aspen	Sawtimber Well	6.0	55	Unspecified	Mature aspen stand, the NE corner of the stand looks like it could be wet. Could final harvest but aspen is still in good shape, hold and manage with adjacent stands.
20	42210 - Natural Red Pine	Poletimber Poor	11.4	61	1-50	Stand harvested in 2010 under contract 72-030-07-01. The red pine and white pine that was left from the harvest is now the canopy and the sub canopy is the oak and aspen regeneration. Very good oak regeneration throughout the stand.
21	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	55.8	89	51-80	
28	4122 - Oak, Pine	Sapling Well	7.7	12	Immature	Stand burned in the summer of 2003. Good regeneration of oak and jack pine, a few scattered oak and jack pine survived the fire.
37	4122 - Oak, Pine	Sapling Well	118.0	26	Immature	Harvested in 1989 under contract #72-071-87-01. Mixed stand of pine and oak, white pine is pole sized but oak is still in the sapling class.
40	4310 - Pine, Oak Mix	Poletimber Well	90.9	36	1-50	Mixed pockets of jack pine/aspen/oak. Oak is found throughout the understory. All jack pine, northern pin oak, and aspen was cut in 78-79. A couple years prior to this cutting FMFMD clearcut strip and planted to jack pine. Did not separate out the strips of jack pine, see timber sale # 7200578-01.
41	4136 - Aspen, Mixed Conifer	Poletimber Well	61.6	48	Unspecified	Aspen stand on the Coppler Creek floodplain and on slope leading down to the floodplain. Evidence of a lot of old beaver activity, many standing and blown over dead trees near the creek. Stand is mixed with some oak and has a good conifer component, especially along the edge of the creek. Old comments indicate a portion of this stand was harvested in 1971. A lot of witch hazel is in the understory on the north side of the creek at the east end of the stand.
44	4125 - Black, N. Pin Oak	Sapling Medium	21.0	7	Immature	Harvested in 2008 under contract 72-028-07-01. Left all trees 4 inches and lower. Good oak regeneration, heavy browse in spots. Red and white pine was left from harvest.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	42250 - Pine, Oak	Poletimber Well	88.6	70	51-80	Red Pine more dominant on the west side of stand and Jack Pine more dominant of the east side of stand. Portions of the stand appear to have been harvested 35-40 years ago. There are multiple age classes of jack pine and oak throughout the stand. ORV trail traverses through a portion of the stand. A portion of this stand will serve as retention from the 30 acre 2017 prescribed clearcut with a trench plant to red pine management objective.
47	42200 - Natural White Pine	Poletimber Well	9.9	56	1-50	The old inventory had the notes saying the stand was cut in 1978.
48	4122 - Oak, Pine	Sapling Medium	26.2	7	Immature	Harvested in 2008 under contract #72-028-07-01. Oak stump sprouts are above browse line, some areas have been heavily browsed by deer. A few open areas at the north end of the stand that have been browsed more, overall regeneration is acceptable.  Old comment: Variance request approved 1-2-09 to switch MO to oak and Cultural need to natural regen (with follow-up planting to JP if regen is found to be inadequate within the regen survey timeframe).
49	4310 - Pine, Oak Mix	Sapling Medium	31.5	14	Immature	Stand cut in 2001 under contract 72-026-97-01. Pole sized white pine left from harvest, jack pine and oak regeneration coming back. Some thick spots and open spots throughout the stand, also some areas of heavy deer browse.
50	42120 - Planted Jack Pine	Sapling Well	40.0	11	Immature	Jack Pine plantation planted in 2004. Scattered natural regeneration of oak throughout the stand mixed with the jack pine. South side of stand borders Pine Road and the east side of stand borders the powerline.
51	4310 - Pine, Oak Mix	Sapling Well	85.3	26	Immature	Harvested in 1989 under contract #72-072-87-01. Borderline sapling/pole mixed jack pine and oak stand, oak saplings filling in the open areas. ORV trail runs through west end of the stand.
52	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	102.3	88	51-80	
53	4310 - Pine, Oak Mix	Sapling Well	122.3	17	Immature	Stand cut in 1998 under contract 72-005-98-01 leaving all red pine as well as any oak w/in 3 chains of the road (stand #54). Pockets of mature red pine are scattered throughout the stand with jack pine/oak regeneration. Regeneration is very thick in spots, open areas are filling in with more oak.
54	4310 - Pine, Oak Mix	Sawtimber Well	16.4	85	111-140	Stand harvested in 1998 under contract 72-005-98-01. All jack pine and aspen was removed leaving all red pine and oak. North end of stand is more red pine dominated and south end is more oak dominated. Stand was left for visual buffer for adjacent houses, leave another 10 years. Good mix of regeneration in the understory. There are a couple of illegal ORV trails from the neighbors.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4125 - Black, N. Pin Oak	Sapling Well	18.3	16	Immature	Patch cuts harvested in 1999 under contract 72-031-98-01. Mostly oak mixed with some aspen and jack pine, species composition varies slightly depending on spot. Open areas are filling in with more oak saplings.
59	42220 - Natural Jack Pine	Poletimber Well	13.3	67	81-110	Mostly jack pine at maturity, east portion of stand is a small valley that leads to drainage in stand 65. Understory is full of oak, ORV trail runs through the stand.
61	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	8.2	11	Immature	Stand cut in 2001 under contract 72-026-97-01, planted to jack pine in 2004. Jack pine survival was the best in some areas, the open spots are filling in with oak saplings.
62	4310 - Pine, Oak Mix	Sawtimber Well	141.1	95	81-110	Oak/Jack Pine mix, borderline log/pole stand. A lot of oak in the understory throughout. ORV trail traverses through east half of stand. Should harvest for jack pine/oak mix, require tops to be skidded.
63	4126 - White, Black, N. Pin Oak	Sapling Well	50.5	16	Immature	Patch cuts harvested in 1999 under contract 72-049-97-01 Merton Rd Oak Block. Species composition is slightly different at each spot, open areas are filling in with more oak.
65	4131 - Aspen, Oak	Sawtimber Well	6.0	80	Unspecified	Small drainage with tag alder and slopes on each side. White pine regeneration filling in the understory.
66	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	54.5	7	Immature	Harvested in 2008 under contract #72-028-07-01. Mostly oak mixed with some aspen, good regeneration with heavy browsing in some spots. Scattered red pine was left from the harvest, especially at the north end.
89	4131 - Aspen, Oak	Sapling Medium	30.7	26	Immature	Harvested in 1989 under contract 72-010-89-01. Aspen pockets mixed with oak, there are some open areas within the stand. A small valley with some jack pine regeneration runs east/west through the stand.
90	4125 - Black, N. Pin Oak	Sawtimber Well	72.6	93	81-110	Oak stand along Merton Road, a lot of oak in the understory. Some pockets browsed at 3ft and other pockets at 5-10 feet. A small valley of red pine and jack pine at the south end of the stand. This stand should be harvested but could hold another 10 years.
91	4131 - Aspen, Oak	Sapling Well	40.3	28	Immature	Cut in 2.5 acre fuelwood blocks in 1987.  OPIC - FMD: Immature Oak stand mixed with some Aspen and Jack Pine reproduction. Stand borders Merton Road on the west side and 9 Point Road on the northside. Old note: WAS CUT IN 2.5 ACRE FIREWOOD SALES. EXCELLENT REGENERATION.
92	4125 - Black, N. Pin Oak	Sawtimber Medium	44.0	95	51-80	JP and Aspen removed in 1998 under contract 72-005-98-01. Thick regeneration in the understory consisting of oak, jack pine and aspen. Could remove overstory but would do a lot of damage to regeneration, leave for acorn production.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
93	4125 - Black, N. Pin Oak	Sawtimber Well	169.9	90	81-110	Old oak stand mixed with pockets of red pine. Oak regeneration is variable throughout the stand, there are pockets where it is 5-10 ft tall and pockets that are browsed down to 3 ft. Stand should be regenerated. There is a small valley of jack pine included at the north end of the stand near Nine Point Road.
94	4199 - Other Mixed Upland Deciduous	Sapling Well	28.6	16	Immature	Patch cuts harvested in 1999 under contract #72-031-98-01. Species composition is slightly different at each spot, some of them are more aspen dominated than others. Overall a good mix of species.
96	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	36.6	7	Immature	Harvested in 2008 under contract 72-025-07-01. Good oak and jack pine regeneration, scattered pole/log red pine was left from the harvest.
99	42220 - Natural Jack Pine	Poletimber Well	17.0	55	Unspecified	Small jack pine valley with oak on the side slopes, bigger pocket of oak at the east end of the stand. A lot of oak coming up in the understory, ORV trail runs through the east end of the stand. Hold this stand until an adjacent stand is harvested.
100	4131 - Aspen, Oak	Sapling Well	57.7	26	Immature	Harvested in 1989 under contract 72-011-89-01. Borderline sapling/pole stand, some pockets are just reaching pole size while others are still saplings. Mostly aspen pockets mixed with some oak and jack pine.
106	4131 - Aspen, Oak	Sapling Well	25.6	16	Immature	Harvested in 1999 under contract #72-034-97-01. Aspen mixed with some oak and jack pine, ORV trail runs through the stand.
110	4130 - Aspen	Sapling Well	16.8	17	Immature	Stand harvested in 1998 under contract #72-034-97-01. Thick aspen stand, some oak coming up in the understory.
113	4125 - Black, N. Pin Oak	Poletimber Well	0.8	90	111-140	Small oak stand, was left for visual aid due to the concerns of the adjacent neighbor's. Jack pine is dying out.
114	4130 - Aspen	Sapling Well	23.7	17	Immature	Harvested in 1998 under contract #72-034-97-01. Thick aspen stand, some oak starting to come up in the understory. ORV trail runs through east half of the stand.
115	4125 - Black, N. Pin Oak	Poletimber Well	2.6	90	81-110	Small stand of old oak, old comments indicate this was left for visual concerns due to comments from the public.
116	4131 - Aspen, Oak	Sapling Well	37.3	25	Immature	Harvested in 1990 under contract #72-038-87-01. Stand to north was supposed to be cut under same contract. There are a couple of patches of oak, pine and aspen that look like they were left from the harvest. Old TCR indicates company went out of business and didn't finish the harvest. Stand is mostly aspen and oak regeneration almost getting to pole size.
117	42110 - Planted Red Pine	Sawtimber Well	4.5	70	171-200	Thinned in 1990 under contract 72-052-89-01.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
118	42110 - Planted Red Pine	Sawtimber Well	4.9	70	171-200	
119	4130 - Aspen	Poletimber Well	3.0	38	Unspecified	OPIC - FMD: Oak stand with immature pole size Aspen throughout the stand. Some Red Pine scattered throughout the stand. ORV trail runs through the stand. Close to a deer yard.
120	4125 - Black, N. Pin Oak	Sapling Medium	40.4	6	Immature	Stand harvested in 2009 under contract 72-041-07-01. Stand 13 to the west was seed tree and split from this stand. Oak stump sprouts have made it above the browse line, there are a couple of aspen regeneration pockets also. Scattered white and red pine were left from the harvest, mostly at the south end.
121	4126 - White, Black, N. Pin Oak	Sapling Well	24.5	18	Immature	Spot harvests cut in 1997 under contract #72-006-97-01. Good mix of oak, aspen and jack pine. Species composition varies slightly at each spot.
136	4133 - Aspen, Mixed Pine	Poletimber Well	12.1	26	Immature	Harvested in 1989 under contract 72-012-89-01. South end of stand has a few more open areas with more oak, aspen is just reaching pole size class.
137	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	46.9	36	81-110	All oak and aspen was harvested 1974-1978, timbersale. Regeneration consist of oak stump sprouts, individual scattered aspen. Both are doing very well at this time. A few red pine seedlings, but mainly at the edge of the residual pockets of red pine less than 1/4 acre in size. There are a few scattered log sized oak throughout the stand.
138	4310 - Pine, Oak Mix	Poletimber Well	26.2	55	1-50	Stand was harvested around 1970. It looks like all jack pine and red pine were left in the harvest. It also appears as if that harvest released advanced oak regen, promoted oak spouts, and also a flush of root suckers.
142	4125 - Black, N. Pin Oak	Sawtimber Well	25.4	83	81-110	ORV trail runs through the stand.
143	4310 - Pine, Oak Mix	Poletimber Well	43.6	85	111-140	Mixed stand of oak and red pine, some areas of red pine look like they may have been planted. Borderline pole/log stand, will hold longer than other stands in the compartment due to the amount of red pine. Hold stand another 10 years.
207	4133 - Aspen, Mixed Pine	Poletimber Well	8.5	39	81-110	OPIC - FMD: Red Pine stand mixed with Aspen and Oak.
249	4310 - Pine, Oak Mix	Poletimber Well	42.2	74	111-140	Possibly harvest stand next year of entry and leave all white pine.



Stand	Cover Type	Acres	Managed Site	General Comments:
42	500 - Water	9.7	No	Old beaver pond and Coppler Creek. Lowland brush and marsh grasses on both sides of the creek with a lot of standing and down dead trees (Cedar, Spruce and Balsam) Old beaver activity.
107	330 - Low-Density Trees	10.2		Harvested in 2009 under contract #72-025-07-01. Stand was roller chopped and trenched in 2013 and planted with red pine in May 2014, FTP C72-611. Oak and aspen regeneration is getting close to the 3ft level. Year 1 artificial regeneration survey will be done this year.
135	122 - Road/Parking Lot	0.7	No	Snowmobile and ORV parking lot.
400	31029 - Grass (OI)	0.8	No	Old gas/oil well site that is now a grassy opening.