



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72071

Entry Year 2019

Acreage: 820

County Iosco

Management Area: Wurtsmith

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**Revision Date:** 2017-09-06

**Stand Examiner:** Kevin Ehlert

### Legal Description:

T24N R8E Sections 12, 13, 24 & 25 Oscoda Township

### Identified Planning Goals:

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

### Soil and topography:

The compartment's west border grades down into the Seven Mile Hill Swamp. This transition zone is typified by deep peat and muck soils with a shallow depth to the water table and tip-up mound terrain. On the higher ground to the east, the terrain is level with Croswell and AuGres sands and loams.

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

The compartment has a mix of public (State and Township) and private property adjacent to it. There is a subdivision in the NE corner of the compartment located in Section 12. There are two other parcels of private property adjacent to the compartment. There is a history of trespass related to this subdivision. In Section 25, there is a 52 acre parcel used as a shooting range owned by Oscoda Charter Township since 2005.

### Unique Natural Features:

The compartment's proximity to the Seven Mile Hill Swamp, and the transition zone gradient of habitats it contains, enable it to support a range of lowland and upland plant and animal communities. There is the potential to encounter Eastern Massasauga rattlesnake, Blanding's turtle, goshawk, eagle, Kirtland's warbler, prairie warbler, secretive locust, calypso orchid, ram's head orchid, and limestone oak fern.

### Archeological, Historical, and Cultural Features:

There is evidence of past disturbance as a result of the area's former Military use.

### Special Management Designations or Considerations:

The Northern part of the compartment has been proposed for inclusion in the Eastern Massasauga Rattlesnake Candidate Conservation Agreement with Assurances (CCAA) program, administered by the U.S. Fish & Wildlife Service. The program's goal is to identify, conserve and enhance critical habitat in order to reverse the rattlesnake's declining population trend.

### Watershed and Fisheries Considerations:

This compartment contains a portion of Dry Creek, in the Van Etten Lake watershed. There are no fisheries concerns at this time.

### Wildlife Habitat Considerations:

The compartment's wide range of cover types – from lowland conifer swamp to upland aspen, oak and pine – provide habitat for game species such as deer, grouse and turkey, and also have the potential to support a variety of rare bird, reptile and insect species.

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

A former sand/gravel pit is located roughly two miles to the northeast, but sand and gravel potential appears to be limited. No active state mineral leases exist in the vicinity today, but much of the area, including the entire compartment, was under lease in 2016 for oil and gas exploration and development. There is no metallic mineral potential in this part of the state.

### Vehicle Access:

Access to the compartment's southern third is good on existing open roads. The rest of the compartment has limited vehicle access due to low terrain and a lack of stream crossings. Bissonette (Rea) Road borders the compartment's south edge.

## **Survey Needs:**

## **Recreational Facilities and Opportunities:**

A designated snowmobile trail #960 occurs in section 24 and 25, a portion of the snowmobile trail is also ORV route in section 25. Other recreational uses of the area include hunting and dispersed equine riding.

## **Fire Protection:**

The compartment's south half contains most of the dry upland oak and pine cover type acreage. Access is good within this area for fire suppression equipment.

## **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:

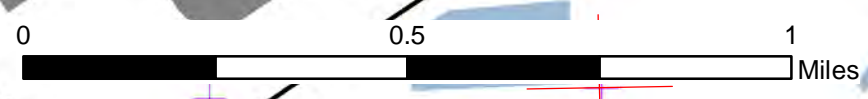
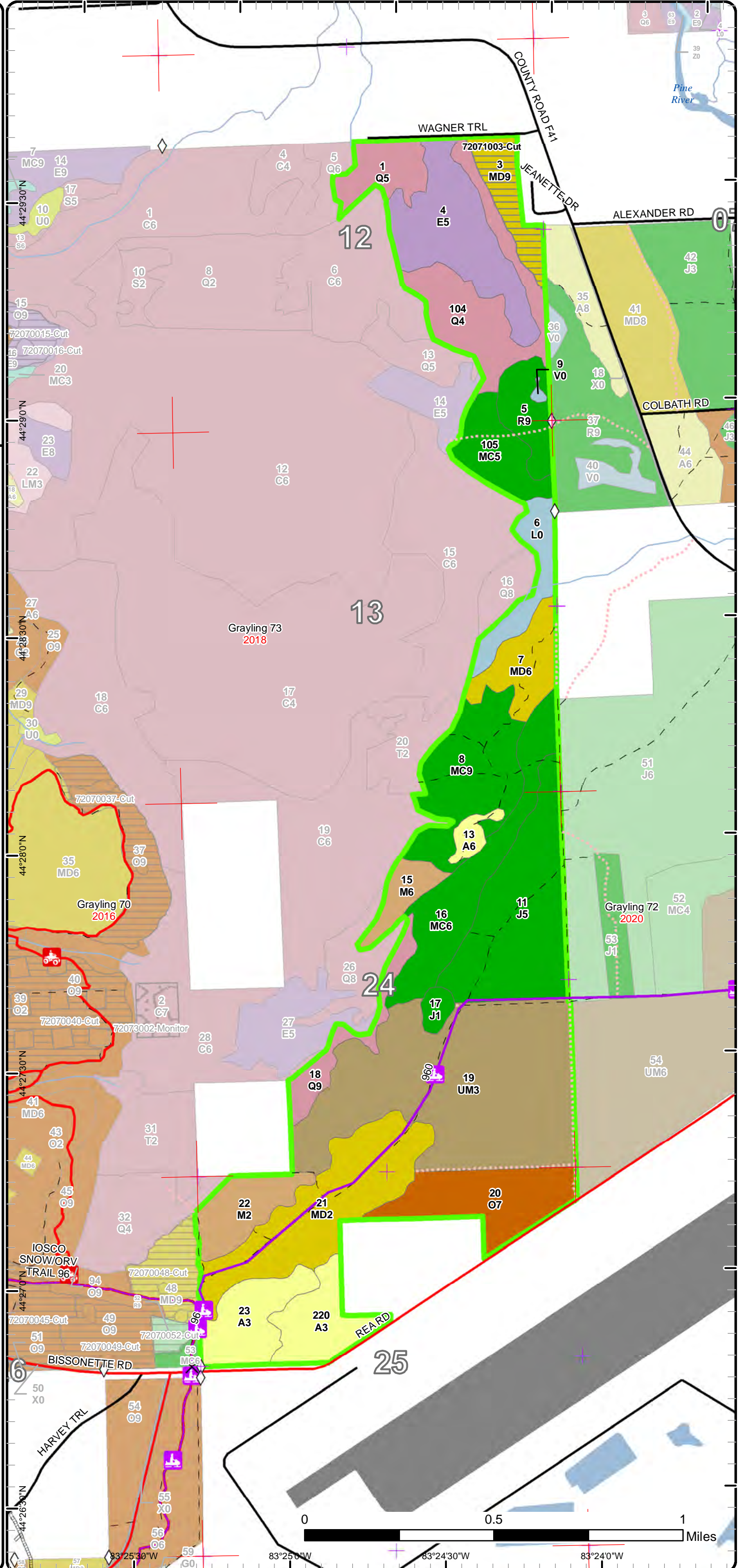
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 71  
 T24N,R08E, Sec. 12-13, 24-25  
 County: Iosco  
 Unit: Grayling  
 Mgmt Area: Wurtsmith  
 YOE: 2019  
 Acres: 819.9 GIS Calculated  
 Examiner: Kevin Ehlert  
 Map Revised: 3/5/2018  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- X Gate
- ORV Trails
- Snowmobile Trails
- Designated ATV
- - - Designated ORV Route
- Designated Snowmobile Trails
- County Paved Roads
- Paved Roads
- - - Poor Dirt Roads
- - - Closed
- Streams
- Lakes and Rivers All
- Pipeline
- Airports
- Compartment Boundary
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- Lakes

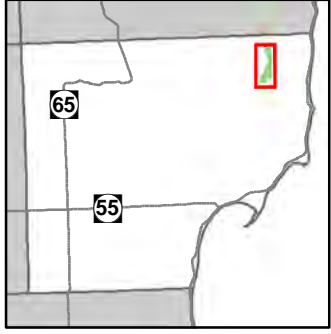


83°25'30"W 83°25'0"W 83°24'30"W 83°24'0"W

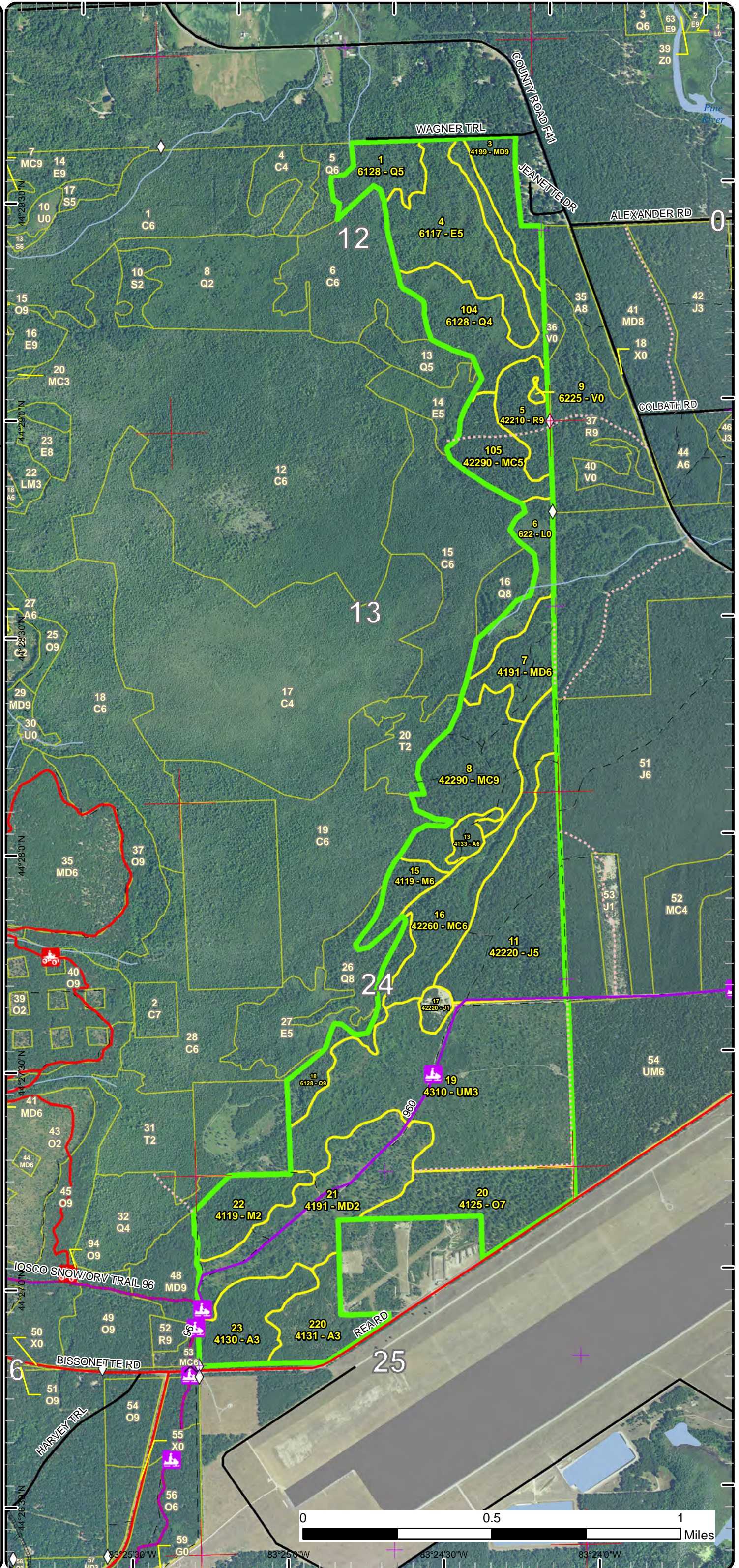


# Stand Boundary Map

Compartment: 71  
 T24N,R08E, Sec. 12-13, 24-25  
 County: Iosco  
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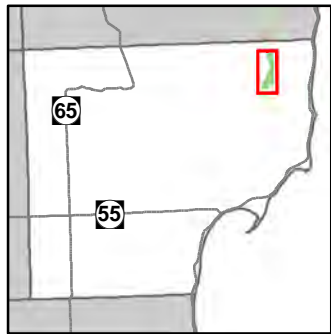
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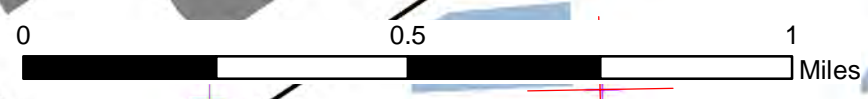
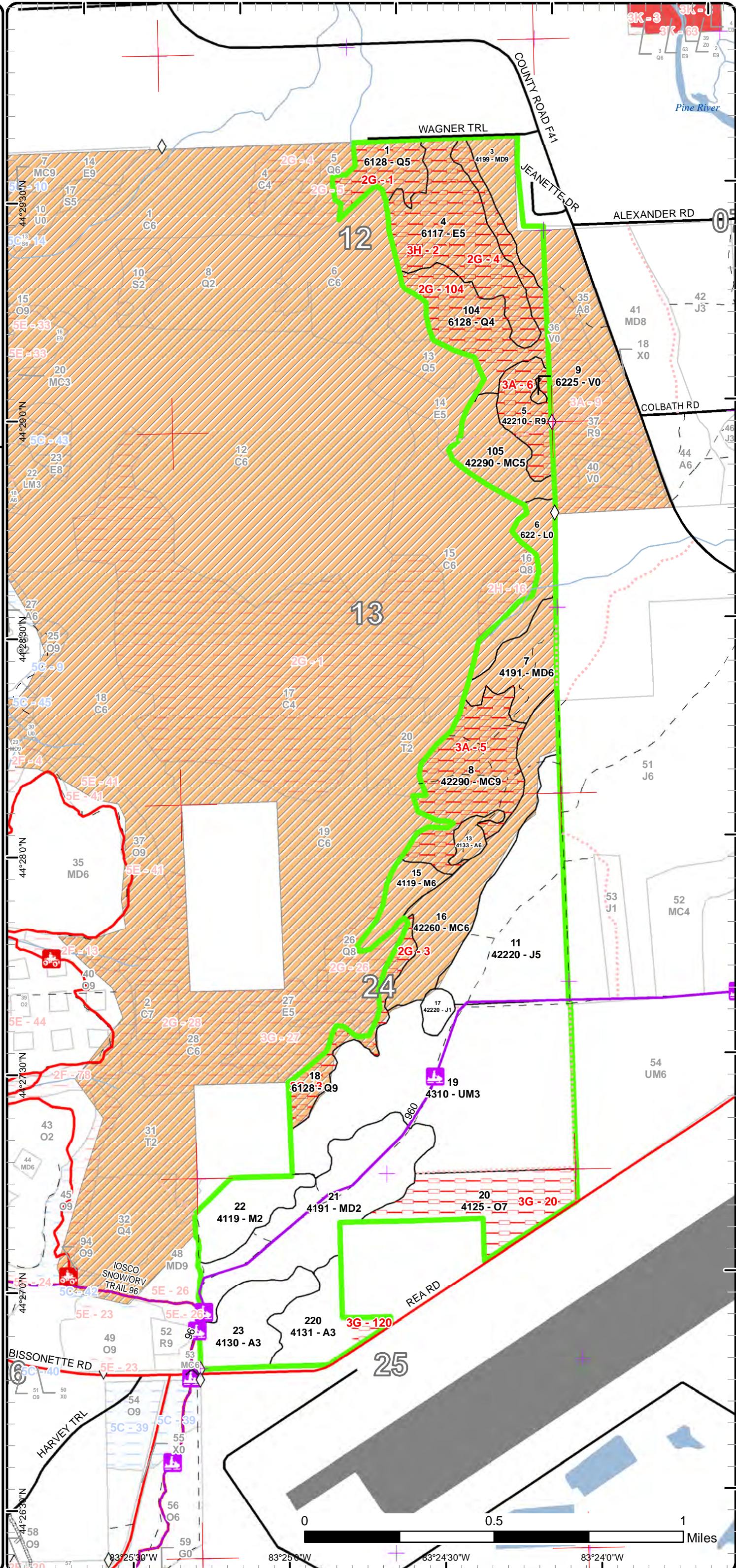


# Special Conservation Areas & Site Conditions Map

Compartment: 71  
 T24N,R08E, Sec. 12-13, 24-25  
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- Paved Roads
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- Closed
- Streams
- Lakes and Rivers All
- Pipeline
- Airports
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- Stand Boundaries
- Ecological Reference Areas
- Eastern Massasauga Managed Land
- Cold Water Streams
- Cold Water Lakes



83°25'30"W 83°25'0"W 83°24'30"W 83°24'0"W



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	28	30	0	6	0	0	0	0	0	0	0	0	0	0	0	0	64
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	0	5	0	77	0	0	0	0	0	0	0	0	0	0	0	0	82
Lowland Conifers	0	0	0	0	0	0	0	0	48	0	20	0	18	0	0	0	0	0	86
Lowland Deciduous	0	0	0	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0	56
Lowland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	72	0	0	0	25	0	0	0	0	20	0	0	0	0	0	0	0	117
Natural Mixed Pines	0	0	0	0	0	50	0	0	0	25	0	55	0	0	0	0	0	0	130
Northern Hardwood	0	0	0	25	0	0	0	13	0	0	0	0	0	0	0	0	0	0	38
Oak	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	44
Red Pine	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
Upland Mixed Forest	0	0	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
<b>Total</b>	<b>22</b>	<b>72</b>	<b>189</b>	<b>60</b>	<b>0</b>	<b>214</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>48</b>	<b>89</b>	<b>40</b>	<b>55</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>820</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 71

Total Compartment Acres: 820

Commercial Harvest - 20  
 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	20	0	0	0	0	0	0	0	0	20
<b>Total</b>	<b>20</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>20</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	20	0	0	0	0	0	0	0	0	20
Next Step	0	0	0	0	0	0	20	0	0	20
<b>Total</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>41</b>



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
3 72071003-Cut	20.3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	103	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Final harvest all species 2"DBH and up. Follow standard retention guidelines utilizing island retention focused on minimizing visual impact to adjacent subdivision. Follow EMR CCAA Conservation Strategies.

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

Acceptable Regen: Mixed upland deciduous stand containing northern pin oak, red maple, and aspen meeting minimum stocking levels

Other Comment: PVT Line needed.

Proposed Start Date: 10/01/2018

**Total Treatment Acreage Proposed: 20.3**



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 71  
Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2G	3A	3G	3H
64	61	0	3	Aspen			3	
1	1	0	0	Bog				
82	82	0	0	Jack Pine				
86	3	0	82	Lowland Conifers	82		0	
56	0	0	56	Lowland Deciduous	32			24
21	21	0	0	Lowland Shrub				
117	117	0	0	Mixed Upland Deciduous				
130	75	0	55	Natural Mixed Pines		55		
38	38	0	0	Northern Hardwood				
44	1	0	43	Oak			43	
20	0	0	20	Red Pine		20		
161	161	0	0	Upland Mixed Forest				
819	560		259	Total Forested Acres	114	75	46	24
	68%		32%	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)	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 71  
Year of Entry: 2019

3	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	32	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	55	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
104	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



# Report 4 – Site Conditions

Grayling Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 71  
Year of Entry: 2019

120	Unavailable	3G: Other Influence zones - See comments	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>Comments</b>				



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

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	20.4	102	1-50	Stand is on Wakeley muck, with heavy tag alder, lots of open water. Nice tamarack with some regen.
3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	20.3	103	111-140	Mixed stand of oak, red maple and aspen, bordering a subdivision. Nicer oak west of the subdivision. A3 along the south edge. Stand transitions into adjacent lowland to the West with more maple and denser sub canopy. Some large limbs and tops breaking out of the oak. Pockets of the RM/Aspen sub canopy are very near pole size class range.
4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	55.7	45	1-50	Stand is on Wakeley & Deford mucks, bounded by the Seven Mile Hill Swamp to the west and isolated by drainages on the stand's other sides. Low BA overall, heavy tag alder with small areas of higher ground; good wildlife area (heard a lot of grouse drumming). Higher ground is inaccessible due to low ground through most of the stand and surrounding lowland stands. Mixture of pole/log size red maple, paper birch, balsam fir and quaking aspen on areas that are less flooded. There is a fair amount of blowdown in the stand, especially in wetter areas.
5	42210 - Natural Red Pine	Sawtimber Well	20.0	99	111-140	Density varies throughout. Mature red pine. Sub-canopy gets denser at West end of stand as it starts to transition towards lower ground. On Dawson peat with a shallow water table; there is a thick bog shrub layer (leatherleaf, kalmia angustifolia) on lower ground with standing water in depressions (Stand 9), and huckleberry & bracken fern on the somewhat higher ground. In July, most of the ground is saturated and you sink down a couple inches just walking on it. Most of the stand was thinned in '90-'91 under 720538901, and in '77 under 6-77A. The stand's RP saw cover type extends east into Compt 72's stand 37 (2020 YOE). The 720538901 sale treated the RP saw stands in both compartments. Stand contains a survey corner with witness trees. Two-track through stand was mostly a water-filled channel this spring (March). Need a gate key for access. Per Pre-Review discussion 8-14-07: Attempting to burn the stand would be very difficult due to very wet spring conditions and EMR seasonal restrictions. Wildlife staff prefer to hold as a natural stand in the transition zone between the swamp and adjacent uplands.
7	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	25.0	48	81-110	Much of the aspen is not yet merchantable. Stand is very mixed. The conifer component contains many large diameter legacy trees, similar to that of stand 8.  OPIC - FMD: Very mixed stand of small BTA clones separated by RM poles & cull saw, NPO saw, super-canopy WP, large sap/small pole WP, & W1-W3 below. Aspen (30 BA total) won out as the covertype by only 10 BA over the WP & RM. Some of the aspen clones aren't as well-developed as the SI clone. Let the aspen mature, and in 10 or possibly 20 years, harvest the aspen and remove all other species within the stand boundary in order to at least maintain and potentially expand the existing small aspen clones.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
8	42290 - Natural Mixed Pine	Sawtimber Well	54.8	110	111-140	<p>Mixed stand along the swamp, with WP sawtimber &amp; poles, poor quality RM saw &amp; poles, along with overmature JP saw to the S &amp; E. RP saw scattered throughout, and some more or less upland cedar and paper birch to the SW. The stand's W center has more uniform, denser WP &amp; RP saw, generally 12-18" DBH, with only W1 in seedlings/small saps. There is some cedar along the W edge. Windthrow is not uncommon &amp; the WP are starting to epicormic branch as their tops diminish. The stand's E1/2 has scattered very large diam, heavy-limbed WP, &amp; more RM &amp; WP poles over W3 in large gaps. The stand's SW end, below the swale drain, has very overmature JP saw and young JP &amp; WP poles. A culvert or other stream crossing would be needed to access this stand. There are two separate spots which would require crossing drainages as you enter the stand. People are currently driving through the stream to access this stand. The water table is very near the surface in this area. Stick nest present in the stand, and also heard a hawk during field visit. A massasauga was found by the Wildlife biologist when reviewing the stand during previous inventory cycle. Per Pre-Review discussion 8-14-07: The decision was made not to harvest this stand due to its unique structural characteristics and proximity to the Seven Mile Hill Swamp. Wildlife Division staff preferred not to treat the stand, but instead to allow natural process to continue undisturbed.</p> <p>Monitor well located on West boundary where two track leads into adjacent compartment 73.</p>
11	42220 - Natural Jack Pine	Poletimber Medium	77.1	41	51-80	<p>OPIC - FMD: Cut in '76 &amp; '77 under 720297601, harvesting all merch JP except green-painted seed trees. Some of those seed trees remain as less than 10 BA of overmature cull JP saw with top dieback, along with ~10 BA of poor-quality dying-back NPO, over large sap/small pole JP, small saw and pole WP, and varying size RP in pockets more to the S &amp; W of the interior 2-track. There is more WP regen to the N &amp; E, and J4/J2 to the S. Heavy turkey traffic on the E-edge 2-track. Do not recommend entering this young stand just to remove 20 BA of poor-quality scattered NPO &amp; JP. Stand age based on the most common 3-6" JP, recognizing that the seed tree with residual cut generated older &amp; younger cohorts. DEQ test well at the stand's far north end, S of the E-W 2-track and within sight of the W edge 2-track.</p>
13	4133 - Aspen, Mixed Pine	Poletimber Well	5.9	48	51-80	<p>OPIC - FMD: Small isolated clones of BTA, separated by inclusions of WP, RM, JP and scattered NPO. Used previous aspen SI &amp; age. Cut in 20 years to at least maintain &amp; possibly expand the aspen clones.</p>
15	4119 - Mixed Northern Hardwoods	Poletimber Well	13.1	68	81-110	<p>OPIC - FMD: Aside from a spine of super-canopy WP &amp; RP along the stand's W edge, grading into the cedar swamp, the stand is predominantly RM poles, with cull RM saw, and large sap/small pole WP below. Also has a little NWC and PB to the W and an occasional BTA stem. Tip-up mound terrain with standing water in the low spots and some windthrow in the very large old pine. Found a patch of rattlesnake plantain orchid. Stand is multiple-aged, ranging from the SC pine to the RM saw &amp; poles to the WP small poles and regen. Based stand age on the most common RM large pole component.</p>





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	49.7	42	81-110	Aside from a spine of large, heavy-limbed WP & RP along the stand's W edge bordering the swamp & stream, the stand is mostly young WP: Small poles, large saps, and the occasional small saw. Scattered within the WP are cull RM & NPO saw, and some JP & BTA. A wide (20-40') slough drain flows on the N & W edge and has dead black ash & tag alder within its immediate corridor. The stream "bottom" is grass/leaf litter. The stand has W3 to the S & E, but gradually grades to more RM saps in the N & near the stream corridor.
17	42220 - Natural Jack Pine	Sapling Poor	5.2	24	Immature	Natural open gown JpVaries in Size. canopy JP's 20-30'tall. JP is below merchantable DBH and very limby. OPIC - FMD: Old military shooting range? Remains of metal fence & wire, open sand to N, J3 to S, averaged to J1. Currently used for misc. target practice, including skeet. JP has been progressively colonizing this highly-disturbed site. Set estimated ave age to 15 years. Used stand 11's SI.
18	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	17.9	129	111-140	Transition zone between Comp 73's perpetually-flooded swamp and stand 19's uplands. High water table, standing water in depressions and blow-downs common, including 2, 1/4 acre, blow-down openings. Stand gets wetter as you move west. Primarily NW cedar with larger cull RM, XLog RP & WP mixed in. Heart rot common in the NWC. Very few small NWC seedlings within stand. Windthrow would be a serious concern if this stand were opened up, and the cedar appears to be contributing seed to the adjacent low-density E/Q type in Compt 73.
19	4310 - Pine, Oak Mix	Sapling Well	160.6	13	Immature	Avg height of stand is 10-20'. Pole size WP left in last harvest. A small amount of oak reaching pole size. OPIC - FMD: Was final harvested in 2004/2005 under 720180401. Good vigor oak stump sprouts with little browse. Majority of the sprouts are 2-6' tall, originating mostly from sub-merch stems that had been cut. There are also clumps of 10-30' tall oak saps, scattered large sap/small pole WP & JP, A2-A3 west along the snowmobile trail, and RM large saps in the SW with O1-O2. Overall, very positive outlook for the oak regen. Used stand 21's SI.
20	4125 - Black, N. Pin Oak	Sawtimber Poor	43.9	95	1-50	All JP and aspen were cut under 720180401 in 2004, leaving 20 BA of scattered poor-quality NPO and 10 BA of RP saw for visual & mast. Stand was cut with stand 19 (same sale, different cutting units and specs). Some areas regenerated to A3 and some regenerated to O2 (O0-O3) in good-quality sprouts resulting from cutting pre-commercial saps. There is little browse on that oak regen.  Monitor well noted East of the shooting range, visible from REA Rd.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	72.1	6	Immature	OPIC - FMD: Mature to overmature NPO, JP & BTA saw with exceptional oak regen in the form of 10-30' tall saplings, ranging from O0-O3 and averaging O2. There are also very good vigor young oak poles. Regen is best in areas where soil had been disturbed in the past, probably as a result of military activities. Stand also has ~10 BA of scattered WP & RP, and less than 10 BA of RM & cherry. Release the oak understory and conserve the young oak poles by removing all NPO 10" DBH and up, all JP & RM saw, and all merchantable aspen. Leave all WO, WP, RP & cherry. Success of the release will depend entirely upon the harvesting equipment operators' avoiding damage to the regen as much as is practicable. Add spec to have operator cut any oak saplings that are bent/broken by operations (such stems sprouted well in the adjacent recently cut stands). Tree-length skidding these large-crowned oak may be a concern; evaluate during tsale prep. Can't stress enough to the operators the importance of protecting the regen. Snowmobile trail runs the length of the stand. Used previous SI. Will take into consideration the Draft CCA guidelines for the massasauga when designing harvest specs. Post-harvest update: cut in 2012 (72-039-09-01) by T.R. Timber: mixed oak 10" DBH & up, JP & RM merch & up, and aspen 2" & up, leaving all white oak, RP, WP & cherry.
22	4119 - Mixed Northern Hardwoods	Sapling Medium	25.1	28	Immature	OPIC - FMD: All stems 4" and up were cut in 1990 under 720518901. Young stand contains a mix of regen: RM, oak & JP. There is a residual large sap/small pole component of oak & RM, but the stand is primarily 3-15' tall regen. Stand is variable in stocking with U inclusions. Featured M2 is a composite of all the regen, which includes areas occupied by nice quality O2-O3. To the N & W there is more RM, less oak, and more JP regen on wetter ground. Shallow depth to water table across much of the stand, gradually drying to east. Used stand 15's SI.
23	4130 - Aspen	Sapling Well	30.1	28	Immature	OPIC - FMD: Cut in 1990 under 720518901, all stems 4" and up. The stand has 25-35' tall BTA clones, some widely separated to the N & E, with areas in between occupied by nice 10-20' tall oak saplings, & JP saplings. A3 is a composite of the oak and aspen regen. Stand had a visual buffer left along Bissonette Road: a row of RP saw and a small peninsula of NPO saw. Used stand 7's SI.
104	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	48.0	88	1-50	Poorly stocked lowland stand. Trees are growing on mounds surrounded by water and thick tag alder. Stand also contains a drainage from the Seven Mile Hill Swamp.
105	42290 - Natural Mixed Pine	Poletimber Medium	25.3	90	1-50	Sub canopy density increases to the west. Stand contains pit/mound topography. Low spots contain water seasonally. OPIC - FMD: Mixed pine stand with increasing black spruce & tamarack components. On Dawson peat: shallow depth to water table, standing water in depressions (in March), thick bog shrub layer (leatherleaf, kalmia angustifolia, some labrador tea) even on the somewhat drier ground. RP, WP & JP saw & poles ~equally represented. Featured the JP as one of the distinguishing characteristics between this and stand 5's RP type. The JP lg poles/saw are 70-80 years old with top dieback. SI averaged between this YOE's and previous SI. Per Pre-Review discussion 8-14-07: Attempting to burn the stand would be very difficult due to very wet spring conditions and EMR seasonal restrictions. Wildlife staff prefer to hold as a natural stand in the transition zone between the swamp and adjacent uplands.



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Grayling Mgt. Unit

Report 7 – Forested Stands

Compartment: 71  
Year of Entry: 2019



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
220	4131 - Aspen, Oak	Sapling Well	28.0	13	Immature	OPIC - FMD: All trees 6" & up (except RP within 1 chain of Bissonette Road) were cut under 720180401 in 2004. Stand has 4-8' tall aspen sprouts with good oak sprouts mixed in, and some areas with only O3, all with little browse. A3 is a composite of the aspen and oak regen. Used stand 7's SI. Some saw size oak residual left on east end near gun club.



Stand	Cover Type	Acres	Managed Site	General Comments:
6	622 - Lowland Shrub	20.7	No	Two streams with old breached beaver dams run through the stand. Area of flood-killed cedar to NW. Generally standing water with sphagnum hummocks or leatherleaf below tag alder, red-osier dogwood or spirea with scattered cedar, tamarack, small black ash and WP regen above the shrub layer.
9	6225 - Bog	0.9	No	Leatherleaf bog; stand boundary gerrymandered to pick up separate small bog to the north. Pine at edges.