



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72007

Entry Year 2018

Acreage: 2,004

County Oscoda

Management Area: Ogemaw Hills

Revision Date: 2016-08-11

Stand Examiner: Matthew Foster

Legal Description:

T27N, R01E, Sections 3, 4, 9, 10
T28N, R01E, Section 33

Identified Planning Goals:

To improve forest health, productivity, sustainability, species and structural diversity throughout the compartment by actively managing the forests, while providing for multiple use and visual management.

Soil and topography:

The area consists of gently rolling terrain, separated by Wright Creek and the East Branch of Big Creek. Soils are sandy, with Grayling, Graycalm, and Grayling-Graycalm sands. These soil types are excessively drained.

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

This compartment is found in Oscoda County, Greenwood Township. The area around compartment 7 consists of mostly public land with scattered tracts of private land of various sizes. The compartment is about 2/3 public ownership. Private ownership is a mix of year-round and seasonal.

Unique Natural Features:

The state threatened rough fescue (*Festuca scabrella*) and prairie or pale agoseris (*Agoseris gluaca*) are known to occur in the area. Hill's thistle (*Cirsium hillii*) and Alleghany plum (*Prunus alleghaniensis* var. *davisii*) are two species of special concern with potential to appear in remnant pine barrens areas within the compartment.

Archeological, Historical, and Cultural Features:

The compartment contains a logging flume and associated features.

Special Management Designations or Considerations:

The East Branch of Big Creek is a "Natural River". Natural Rivers are High Conservation Value Areas (HCVA's). All stands found within 400' feet of these rivers are also considered HCVA's. Big Creek and Muskrat Kirtland's Warbler Management Units surround the compartment. These management units - which are HCVA's - may affect some timber sale timelines.

Watershed and Fisheries Considerations:

East Branch Big Creek and Wright Creek are designated trout streams. Management for aspen near the stream riparian zones should be minimized to discourage beaver damming. All activities should follow appropriate "Natural Rivers" setbacks.

Wildlife Habitat Considerations:

There is the potential for dusted skipper, grizzled skipper, and red legged spittle bug to occur in grassy openings. Secretive locust may occur in bog habitat and surrounding uplands. Blanding's turtle, wood turtle, and massasauga rattlesnake have potential to be found along the drainage ways.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not a current economic use for the Coldwater Shale. Gravel pits are not located in the area, but potential is good. Section 33 is leased for oil and gas development.

Vehicle Access:

Farrington, Town Hall, Granger, Pine Haven, Pine Ayre, and 489 are County Roads which intersect the compartment. The majority of trail roads are in good condition, passable with 2-wheel drive vehicles. The trail road in Section 4 is a public easement allowing access to State owned lands west of Wright Creek.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The compartment contains Snowmobile Trail #4 – The Red Oak/Lovell's/Lewiston Trail runs on Granger and Town Hall roads. The East Branch of Big Creek and Wright Creek are designated trout streams that flow through the compartment. Dispersed recreational use is evident throughout area.

Fire Protection:

Access in this compartment is not a concern for wildfire protection. Section 33 north of the river has a high acreage percentage of immature jack pine. The rest of the compartment is a mixture of aspen, oak and mixed pine of various age classes. The two rivers and intersecting County Roads provide excellent fuel breaks. The creeks also provide adequate water sources for suppression needs.

Additional Compartment Information:

A public ingress and egress easement is located in section 4.

The following reports from the Inventory are attached:

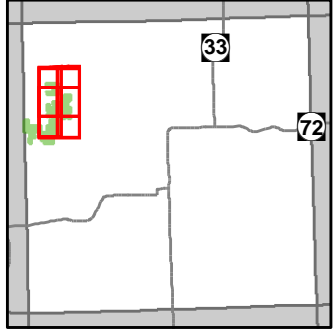
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

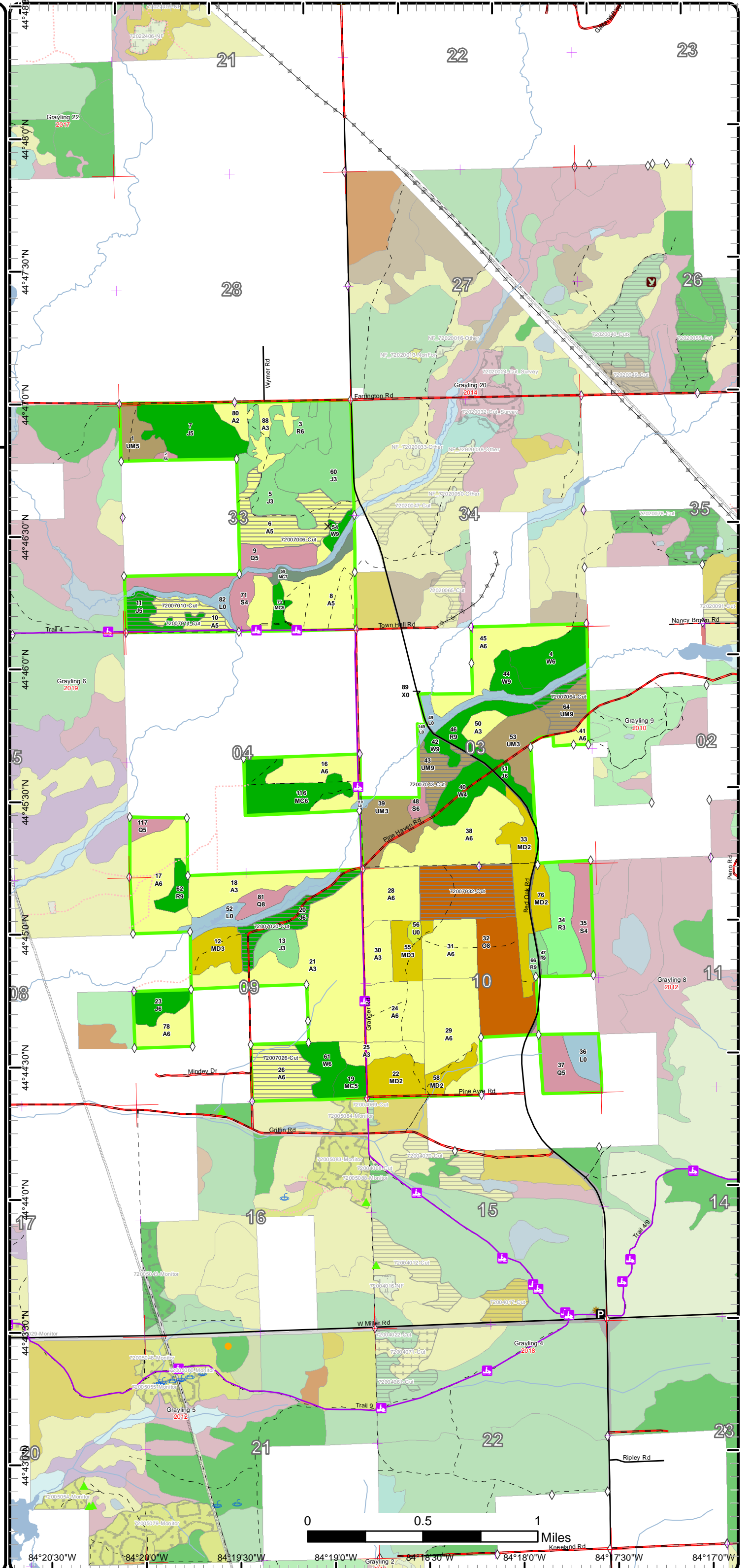
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 7
 T27N, R01E, Sec. 03, 04, 09, 10
 T28N, R01E, Sec. 33
 County: Oscoda
 Unit: Grayling
 Mgmt Area: Ogemaw Hills
 YOE: 2018
 Acres: 2005 GIS Calculated
 Examiner: Matthew Foster
 Map Revised: 3/9/2017
 Map Phase: Post-Review



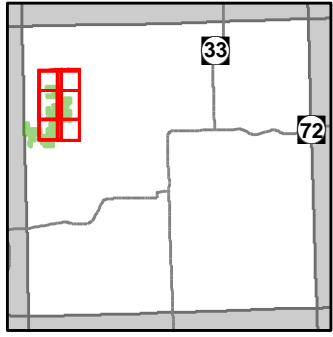
- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- × Gate
- 🏠 OFS Habitat
- 📍 OFS Human Impact
- 🌊 OFS Hydro
- 📍 OFS Other-Specify
- 🚗 Parking Lot
- 🌟 Trailhead
- 🚙 Snowmobile Trails
- 🚙 Designated Snowmobile Trails
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- Poor Dirt Roads
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- 🟨 Clearcut (w/Reserves)
- 🟤 412 - Oak Types
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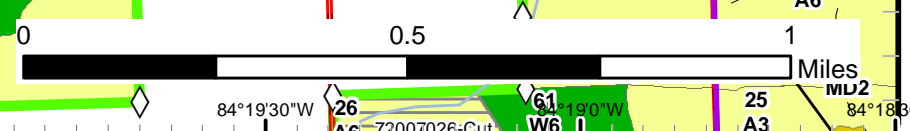
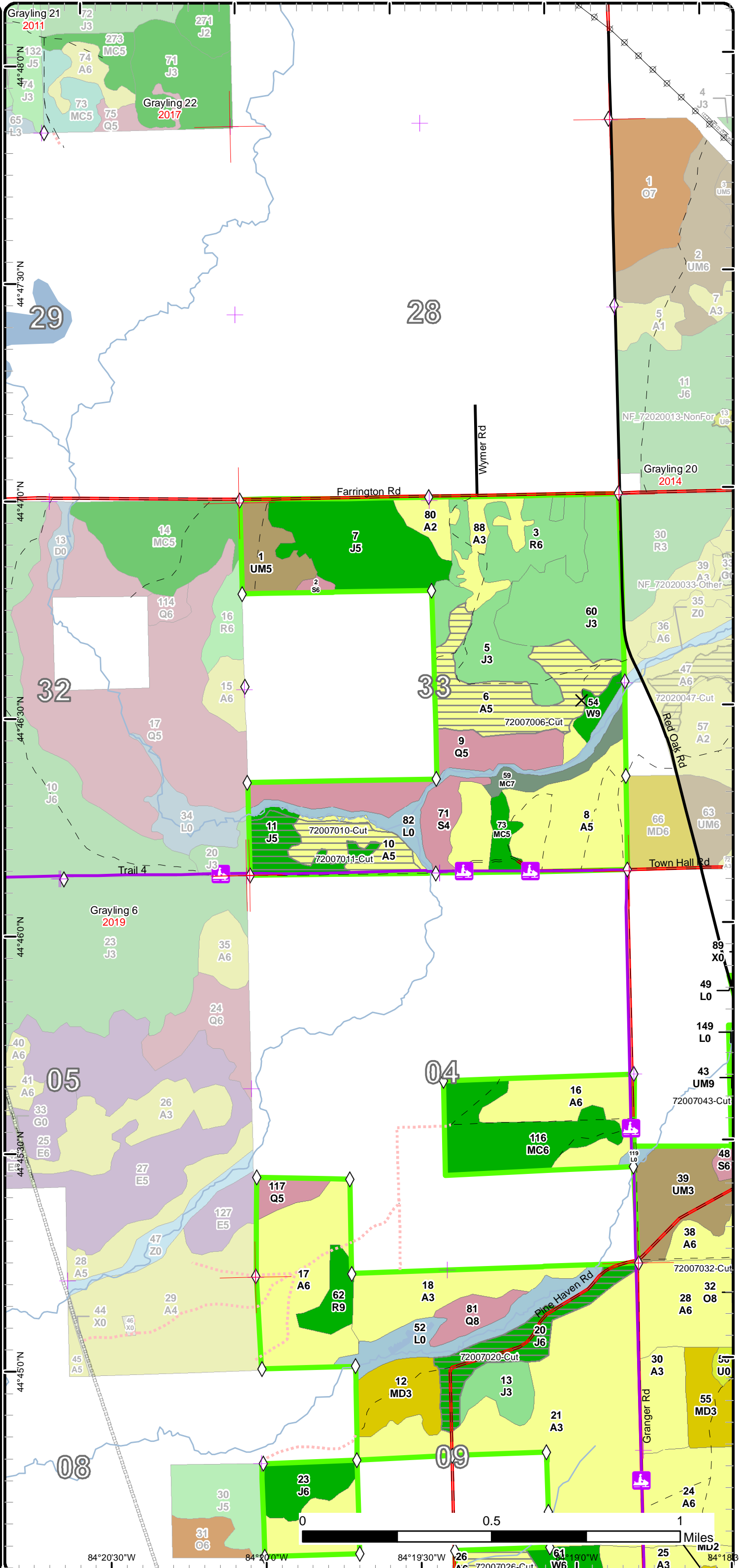
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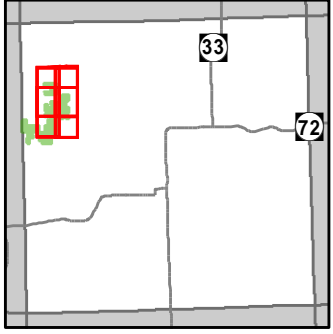


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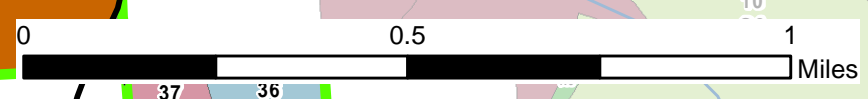
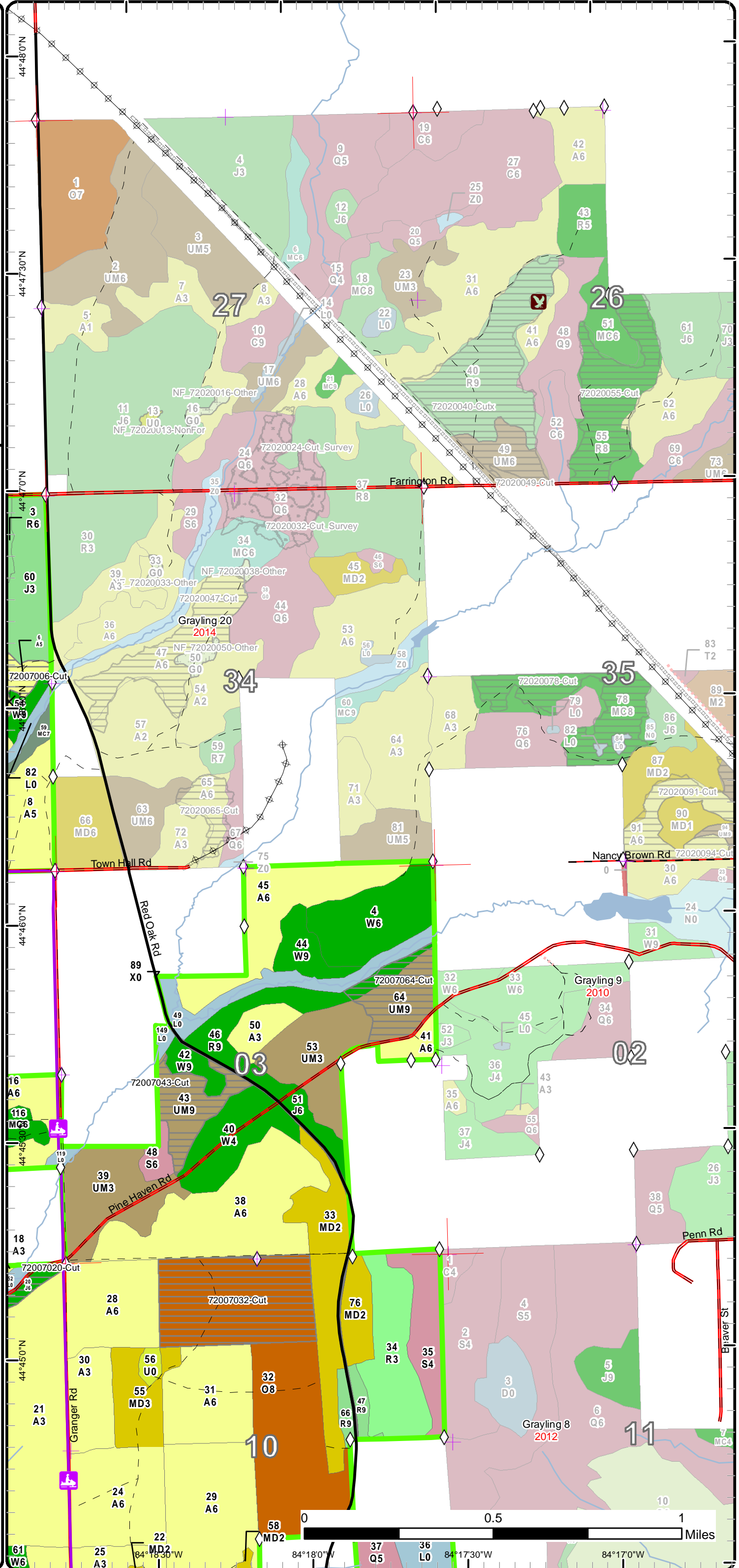


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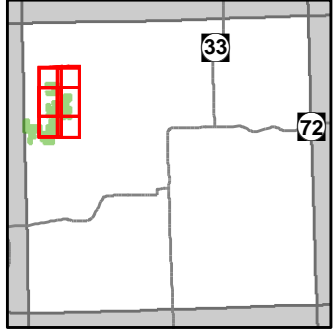
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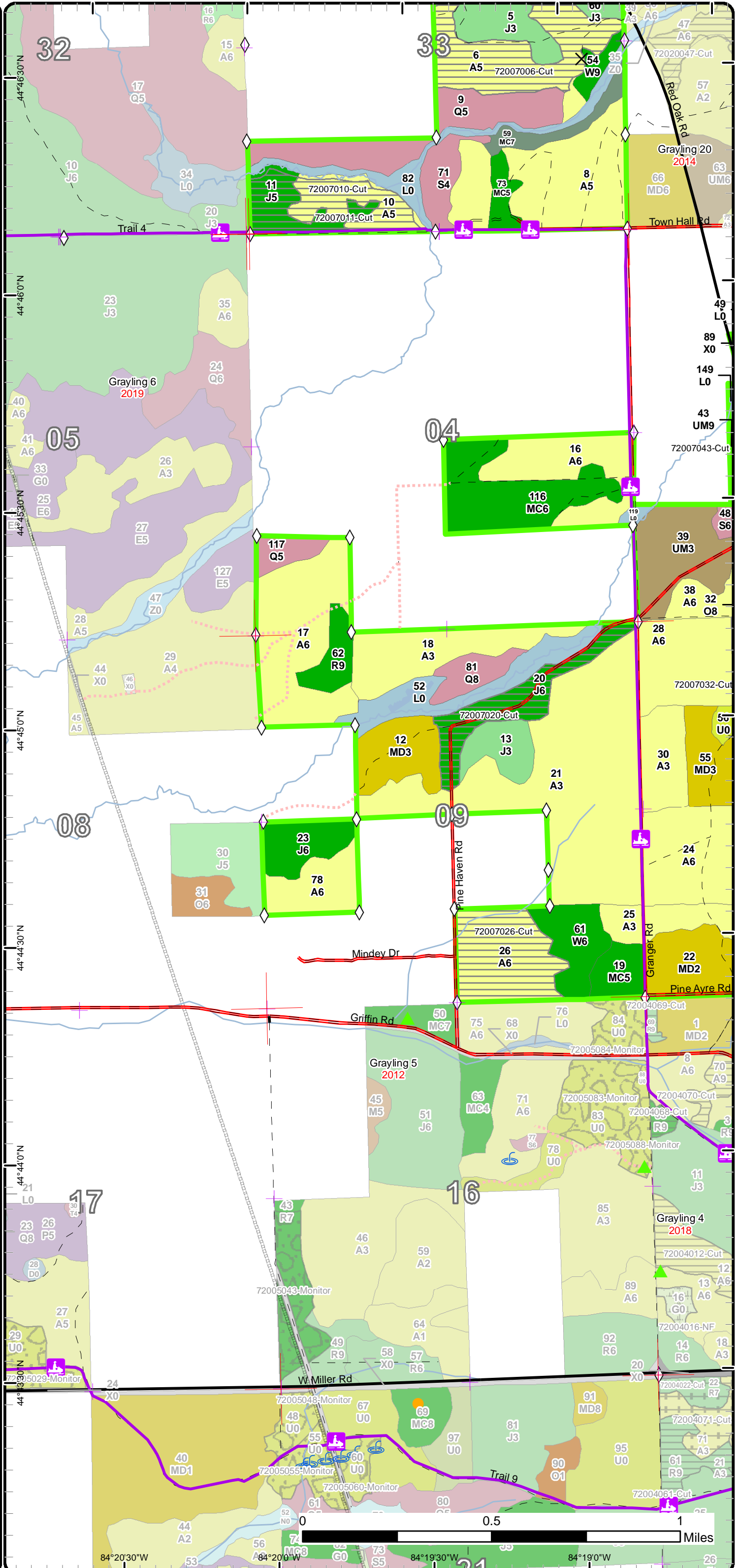
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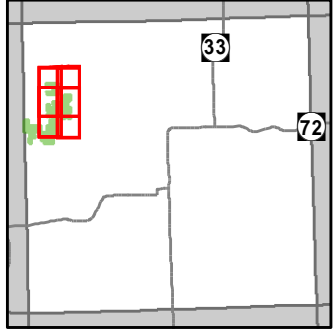


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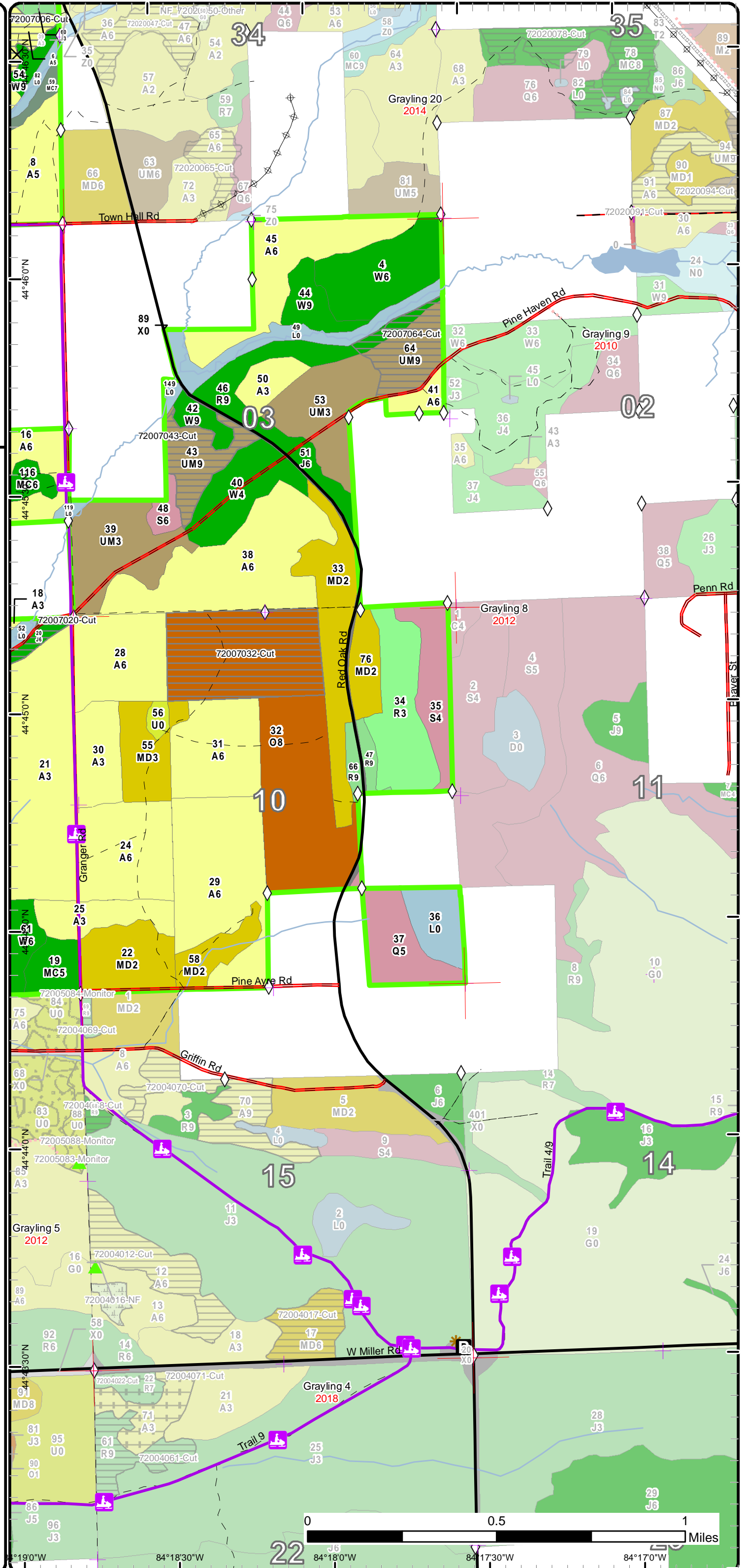


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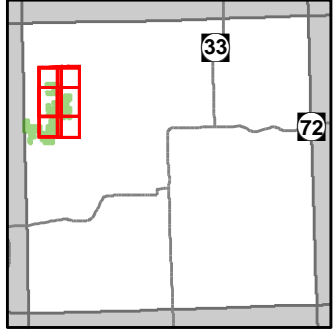


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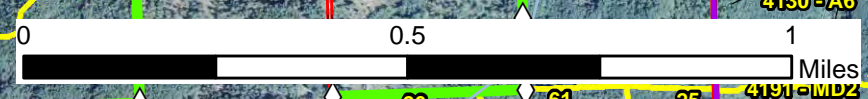
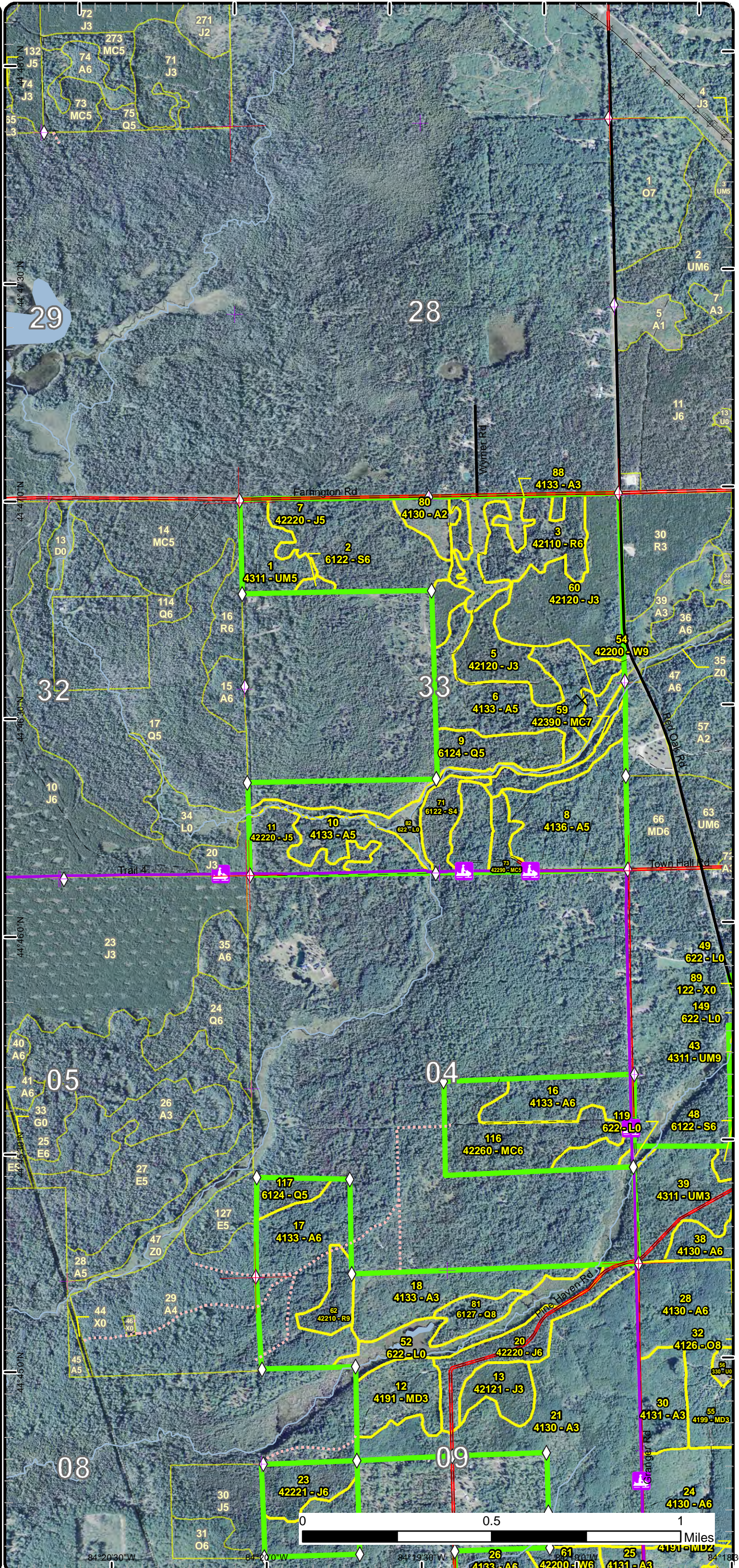


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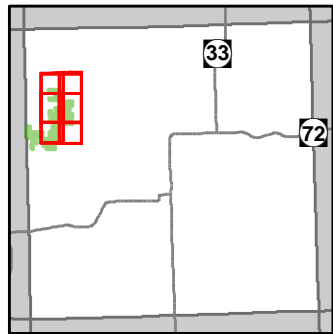
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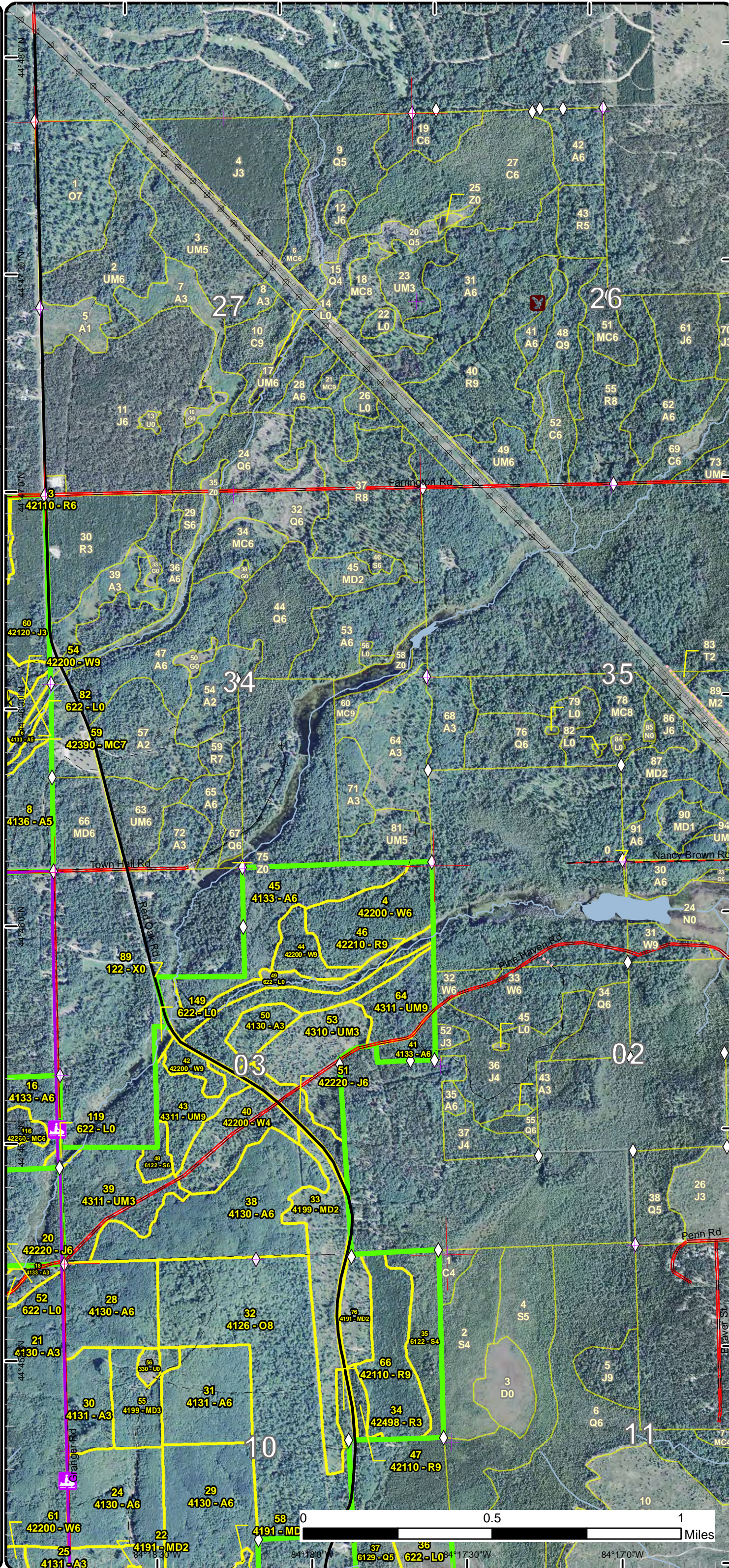
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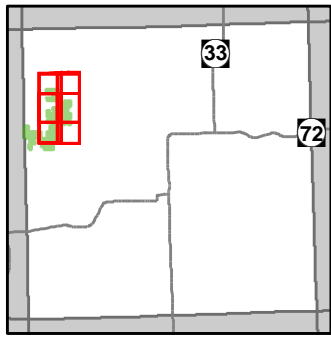


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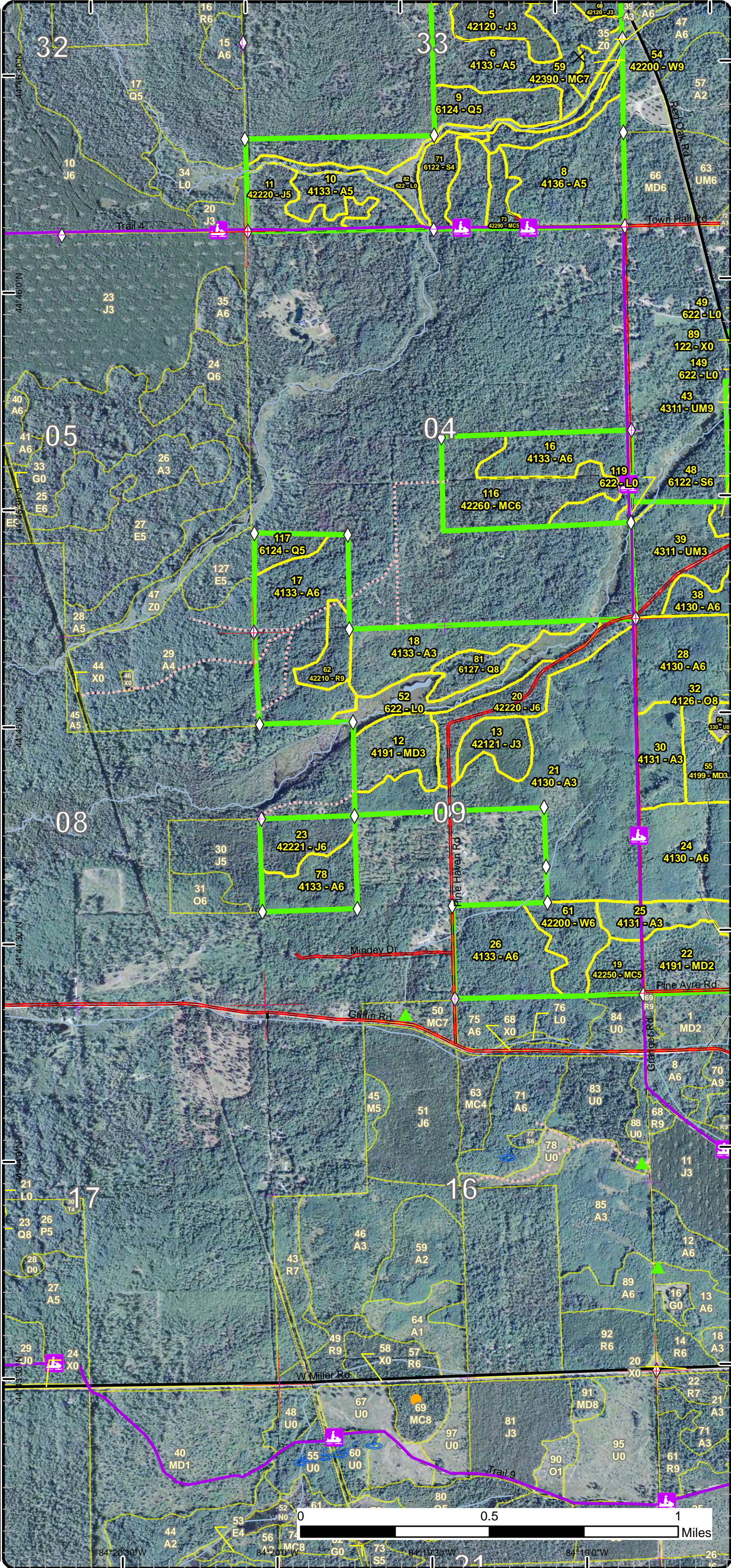


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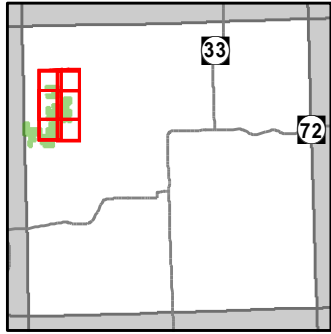


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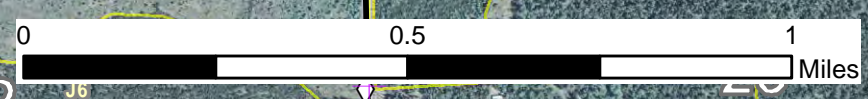
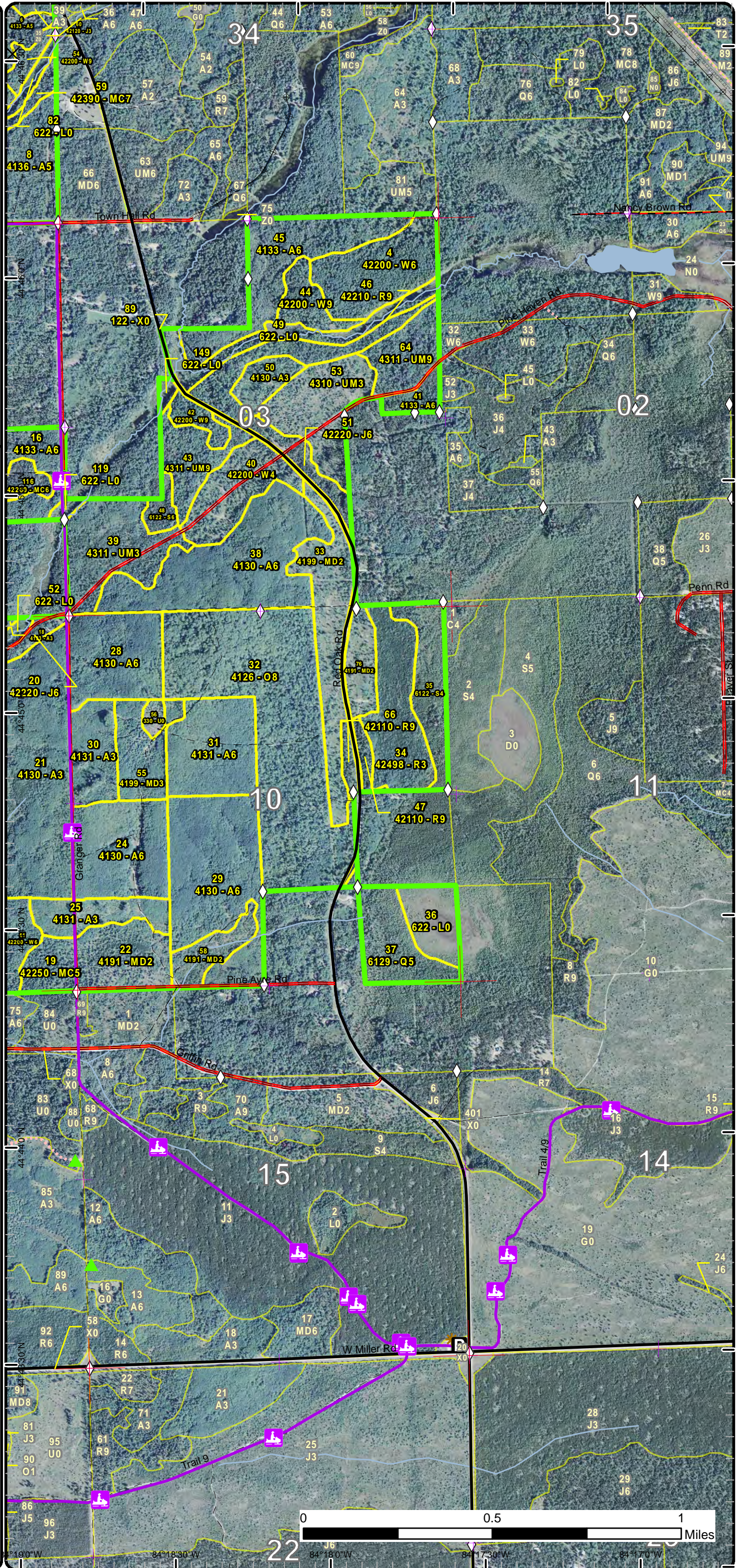


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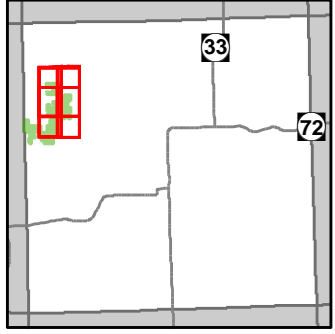
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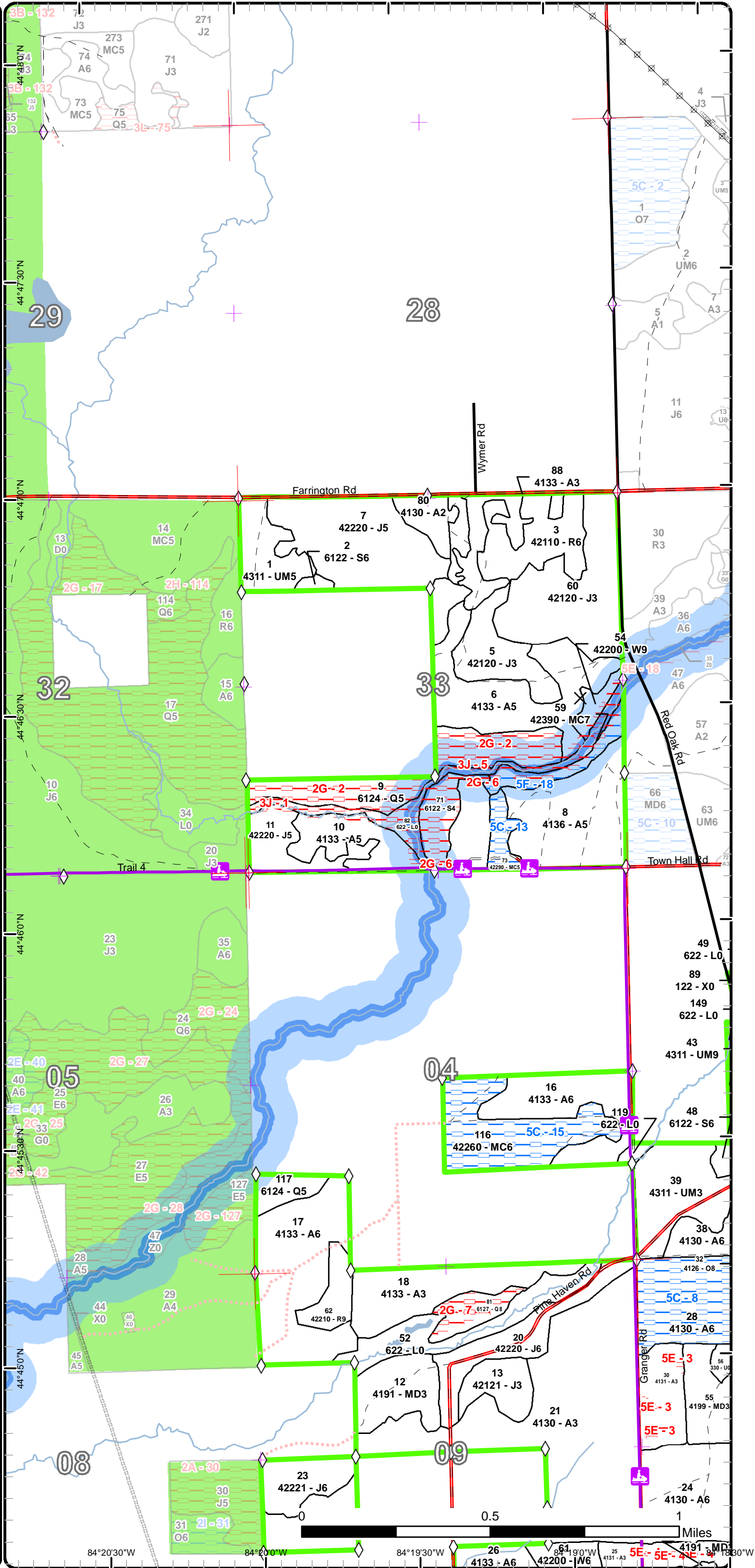
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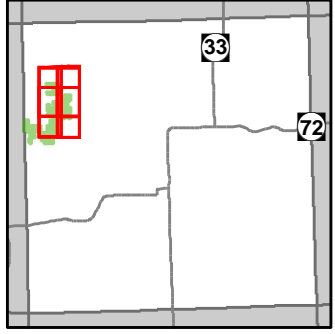


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes

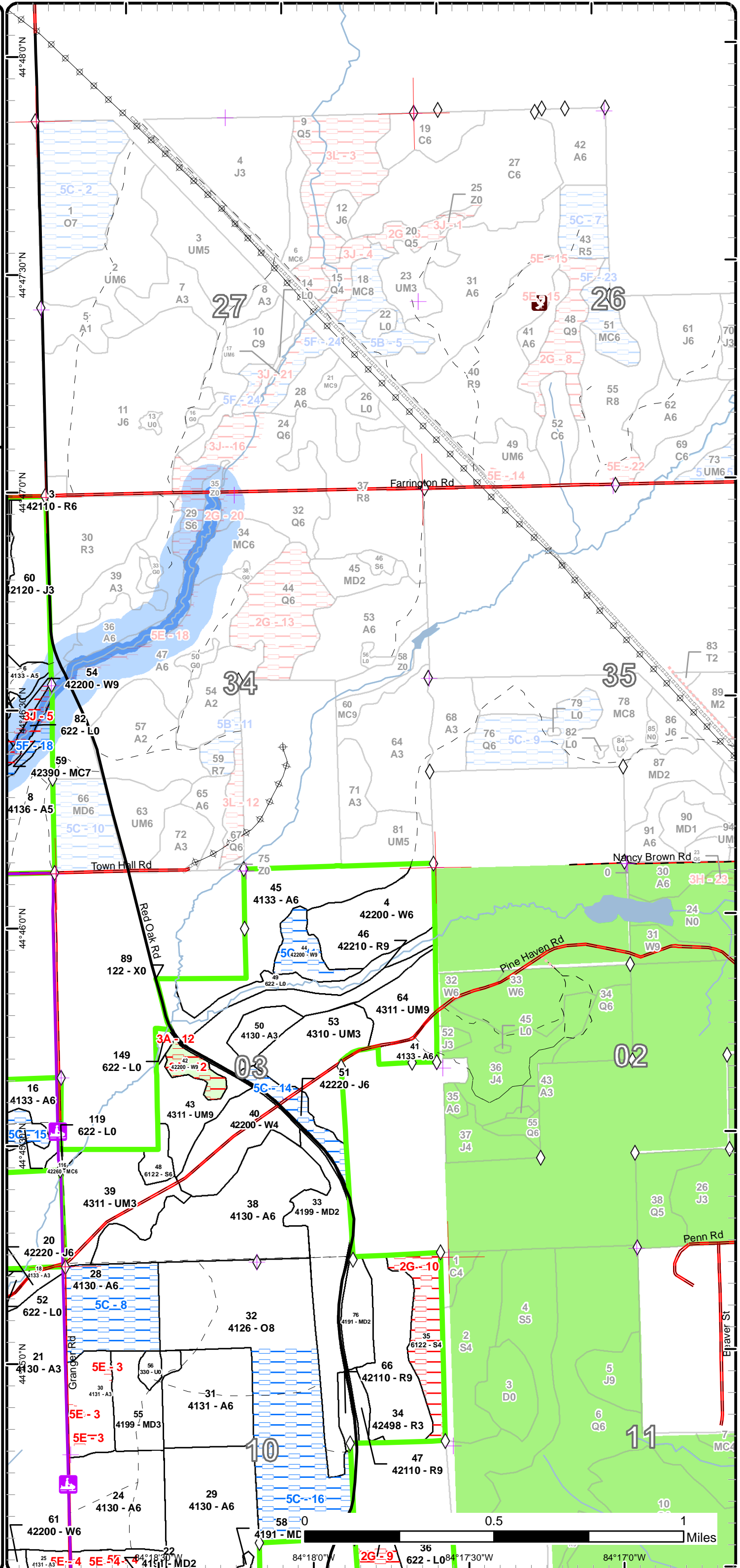


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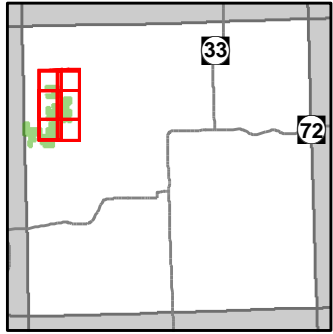
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- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- Possible Type 1 Old Growth



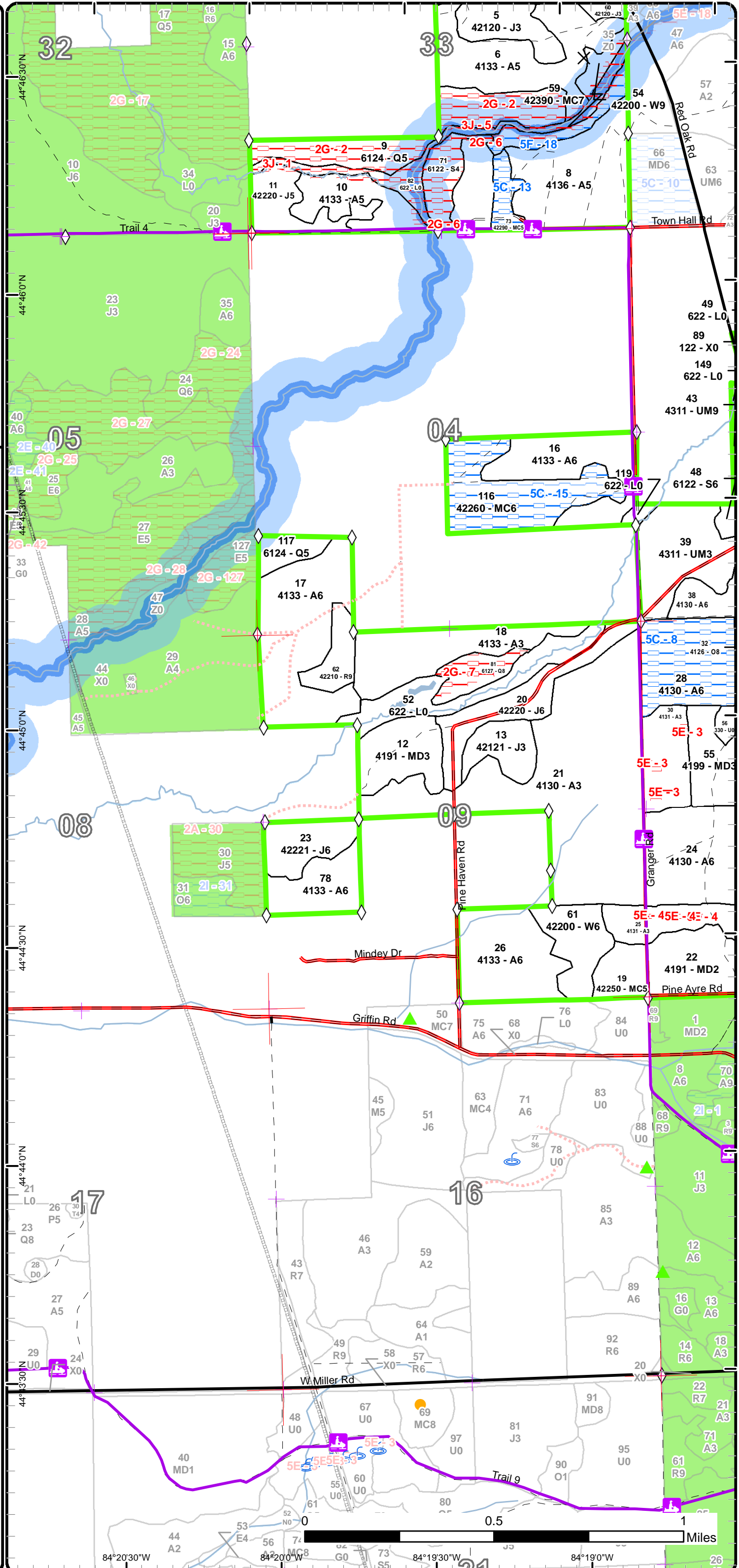
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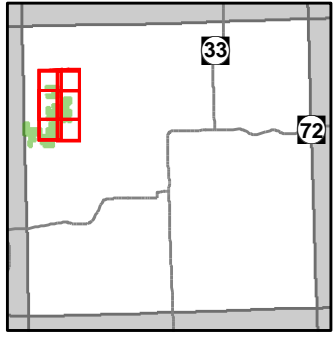
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- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes



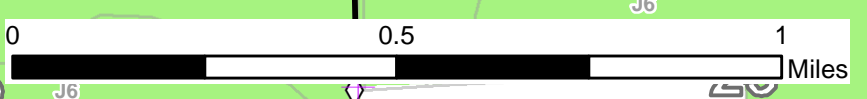
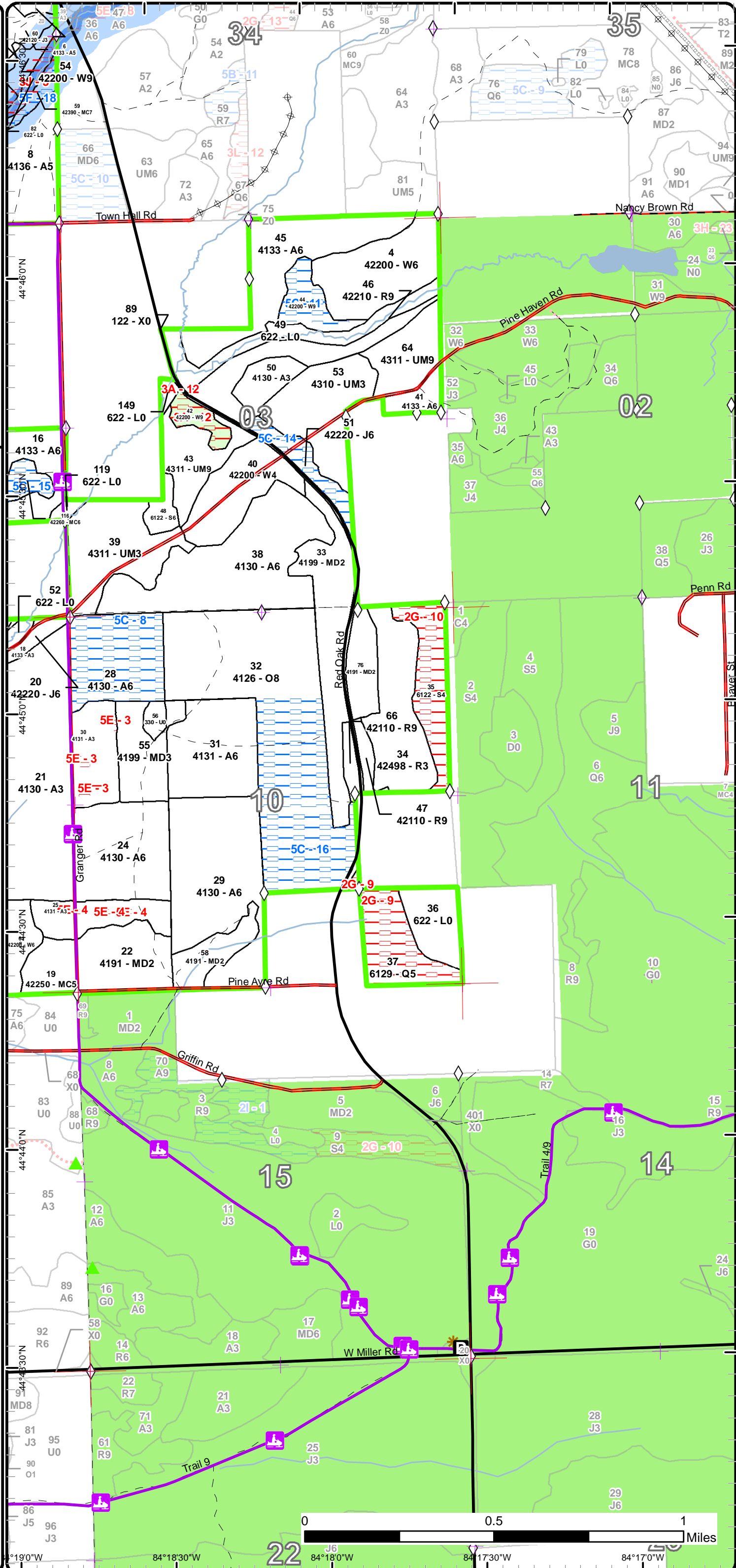
84°20'30"W 84°20'0"W 84°19'30"W 84°19'0"W

Special Conservation Areas & Site Conditions Map

Compartment: 7
 T27N, R01E, Sec. 03, 04, 09, 10
 T28N, R01E, Sec. 33
 County: Oscoda
 Unit: Grayling
 Mgmt Area: Ogemaw Hills
 YOE: 2018
 Acres: 2005 GIS Calculated
 Examiner: Matthew Foster
 Map Revised: 3/9/2017
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- ▲ OFS Human Impact
- P Parking Lot
- ✱ Trailhead
- Snowmobile Trails
- Designated Snowmobile Trails
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Pipeline
- Powerline
- 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)
- 3A: Potential old growth / biodiversity
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- Possible Type 1 Old Growth



17°0'W 84°18'30"W 84°18'0"W 84°17'30"W 84°17'0"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	76	0	307	43	328	89	0	0	0	0	0	0	0	0	0	0	0	842
Jack Pine	0	0	0	100	0	73	19	38	0	0	0	0	0	0	0	0	0	0	230
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	0	9	0	0	0	67	11	0	0	0	0	0	87
Lowland Shrub	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Lowland Spruce/Fir	0	0	0	0	0	0	0	6	24	15	0	0	0	0	0	0	0	0	45
Mixed Upland Deciduous	0	53	72	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138
Natural Mixed Pines	0	0	0	0	0	55	8	0	0	0	0	0	0	0	0	0	0	0	63
Oak	0	0	0	0	0	0	0	0	0	0	128	0	0	0	0	0	0	0	128
Red Pine	0	0	0	38	0	0	35	0	43	0	0	0	0	0	0	0	0	0	116
Upland Conifers	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	0	0	38	35	20	0	0	40	0	0	0	0	0	0	0	0	0	133
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	28	0	0	21	0	37	0	0	6	0	13	0	7	0	112
Total	101	129	72	496	106	476	151	74	107	63	128	67	17	0	13	0	7	0	2005



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 7

Total Compartment Acres: 2,004

Commercial Harvest - 256
 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	107	0	0	0	0	0	0	0	0	107
Jack Pine	44	0	0	0	0	0	0	0	0	44
Oak	61	0	0	0	0	0	0	0	0	61
Upland Mixed Forest	44	0	0	0	0	0	0	0	0	44
Total	256	0	0	0	0	0	0	0	0	256

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	256	0	0	0	0	0	0	0	0	256
Next Step	0	0	0	0	0	0	256	0	0	256
Total	256	0	0	0	0	0	256	0	0	512



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
6	72007006-Cut	48.0	4133 - Aspen, Mixed Pine	Poletimber Medium	54	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Final harvest 2" and up to expand aspen pockets. Leave standard retention. Treatment boundary has been adjusted to protect archaeological site (150ft buffer).
Specs:

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

Acceptable Moderately stocked stand of aspen, pine, and balsam fir. Areas without aspen will regenerate more to a U type and this is acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

10	72007010-Cut	19.7	4133 - Aspen, Mixed Pine	Poletimber Medium	49	Unspec ified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final harvest 2" and up, buffer along Big Creek and creek to the north will serve as retention. Add drumming log spec.
Specs:

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

Acceptable Any combination of aspen, white pine, and red pine.
Regen:

Other After talking with Fisheries (Neal), a 100 ft buffer along Wright Creek and along the small creek to the north is approved.
Comment:

Proposed Start Date: 10/01/2017

11	72007011-Cut	17.6	42220 - Natural Jack Pine	Poletimber Medium	59	Unspec ified	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final harvest 2" and up, leave standard retention.
Specs:

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

Acceptable Any combination of jack pine, aspen, spruce, white pine and red pine.
Regen:

Other After talking with Neal, 100 ft buffer along creek to the north.
Comment:

Proposed Start Date: 10/01/2017

20	72007020-Cut	26.5	42220 - Natural Jack Pine	Poletimber Well	66	Unspec ified	Harvest	Clearcut with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Harvest all species 2" and up. Leave proper buffer along Wright Creek. The buffer that is left will serve as retention for the stand. Make sure Pine Haven Rd is signed and protected.
Specs:

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

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

Other Talked with Neal, 100 ft no clearcut buffer for Wright Creek, can do selective management closer if wildlife wants to.
Comment:

Proposed Start Date: 10/01/2017



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
26	72007026-Cut	39.4	4133 - Aspen, Mixed Pine	Poletimber Well	49	Unspecified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Final harvest 2" and up, leave standard retention.
Specs:

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

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

Other
Comment:

Proposed Start Date: 10/01/2017

32	72007032-Cut	60.5	4126 - White, Black, N. Pin Oak	Sawtimber Medium	97	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Final harvest 2" and up, leave standard retention.
Specs:

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

Acceptable oak, aspen, red maple
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

43	72007043-Cut	19.8	4311 - Pine, Aspen Mix	Sawtimber Well	72	111-140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Harvest all species 2" and up, leave all pine over 26" DBH. Focus retention around the big pine. Portions of the NW corner of the stand may need to be harvested during winter or a dry summer. Add drumming log spec.
Specs:

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

Acceptable Any combination of aspen, pine, and red maple.
Regen:

Other Survey will be needed to establish west line. Talked with Neal, 100 ft no clearcut buffer for Wright Creek, can do selective management closer if wildlife wants to.
Comment:

Proposed Start Date: 10/01/2017

64	72007064-Cut	24.6	4311 - Pine, Aspen Mix	Sawtimber Well	71	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Final harvest 2" and up. Leave standard island retention. This stand has a couple of wet areas that may need to be harvested in the winter or a dry summer. The wet tag alder area in the middle of the stand should be included in the retention. Push treatment north into stand 46 to the creek buffer to regenerate more aspen. Leave the few pine over 26" DBH. Protect the Hawthorn, add drumming log spec. Follow BMP's.
Specs:

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

Acceptable Any combination of aspen, pine, and red maple.
Regen:

Other Talked with Fisheries (Neal), he is good with cutting to the top of the ridge near Wright Creek (about 50 ft from creek). He is fine with going closer where there is less slope as long as BMP's are followed.
Comment:

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed: 256.1

Report 4 – Site Conditions

Grayling Mgt. Unit

Matthew Foster : Examiner

Compartment: 7

Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5C	5F	2G	3A	3J	5E
841	797	38	7	Aspen	38				4	3
230	217	11	1	Jack Pine	11				1	
3	3	0	0	Low-Density Trees						
87	11	0	76	Lowland Conifers			67		9	
90	70	0	20	Lowland Shrub					20	
45	8	0	37	Lowland Spruce/Fir			33		4	
139	139	0	0	Mixed Upland Deciduous						0
64	12	51	0	Natural Mixed Pines	51					
128	61	67	0	Oak	67					
115	115	0	0	Red Pine						
11	0	6	5	Upland Conifers		6			5	
134	134	0	0	Upland Mixed Forest						
8	8	0	0	Urban						
111	92	10	9	White Pine	10			7	2	
2,004	1,666	184	155	Total Forested Acres	178	6	101	7	44	3
	83%	9%	8%	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	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100 ft no clearcut buffer along creek per fisheries division.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Matthew Foster : Examiner

Compartment: 7
Year of Entry: 2018

3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 150 ft buffer along East Branch Big Creek							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit

Matthew Foster : Examiner

Compartment: 7

Year of Entry: 2018

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3A: Potential old growth / biodiversity	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Matthew Foster : Examiner

Compartment: 7
Year of Entry: 2018

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	67	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5F: Evaluated for Forest Health Considerations	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was inventoried in January of 2016, majority of stand is with the Natural Rivers RMZ. Stand is also on a slope leading down to stream. No evidence of budworm issues.							



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
	Potential Old Growth			7
Comments				
	Potential Old Growth		SCA Removal	49
Comments Doesn't meet criteria				
	Potential Old Growth		SCA Removal	67
Comments Doesn't meet criteria				
	Potential Old Growth		SCA Removal	87
Comments Doesn't meet criteria				



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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4311 - Pine, Aspen Mix	Poletimber Medium	20.4	43	51-80	Stand is a mix of aspen and jack pine with isolated pockets of sawlog size red pine. Stand has some wet areas especially in the south end. Some budworm on the balsam fir.
2	6122 - Black Spruce	Poletimber Well	2.2	81	Unspecified	Small stand, leads to swamp on private land and start of drainage into Big creek.
3	42110 - Planted Red Pine	Poletimber Well	34.7	56	111-140	Variable red pine stand, was thinned in 2009. Southeast corner of the stand has some larger diameter red pine. Stand BA is variable but averages 113. Open areas are filling in with aspen.
4	42200 - Natural White Pine	Poletimber Well	36.6	81	111-140	White pine with aspen pockets mixed in, separated this stand from stand 45.
5	42120 - Planted Jack Pine	Sapling Well	30.0	23	Immature	Planted in fall of 1994. Was previously a U type before planting, so there are scattered more mature red pine scattered throughout.
6	4133 - Aspen, Mixed Pine	Poletimber Medium	50.5	54	Unspecified	Pockets of aspen mixed with some balsam fir, stand gets more dense closer to the creek. West end of stand is more open. Some areas have a thick understory. Could clearcut to expand aspen pockets, west end has sparse aspen and would come back more of a U type.
7	42220 - Natural Jack Pine	Poletimber Medium	54.8	47	Unspecified	Jack pine with some open areas throughout, west end of stand might be slightly older. Small pocket of more mature red pine near the road is included in the stand. A small drainage leads from this pocket south to stand 2.
8	4136 - Aspen, Mixed Conifer	Poletimber Medium	64.2	41	Unspecified	Stand was harvested in 1976, a few pockets of aspen look like they may be a little older and may not have been cut during the sale. A few large diameter oak and pine are also scattered. The east half of the stand has more open areas filling in with cherry.
9	6124 - Lowland Spruce- Fir	Poletimber Medium	41.3	109	Unspecified	Cedar found more on the east end of the stand, scattered large white pine. Thick balsam fir and spruce understory. Stand is very wet.
10	4133 - Aspen, Mixed Pine	Poletimber Medium	22.0	49	Unspecified	Aspen pockets with open areas between them. A lot of white pine in the understory. Could cut with adjacent stand and expand aspen.
11	42220 - Natural Jack Pine	Poletimber Medium	18.9	59	Unspecified	Jack pine is old and dying out. Most of the spruce is at the north end of the stand near the creek.
12	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	23.9	18	Immature	Cut in 1999 under contract 72-027-98-01. Mixed stand, open areas are filling in with more regeneration.
13	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	15.0	20	Immature	Jack pine planted in 1997, very dense in most of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4133 - Aspen, Mixed Pine	Poletimber Well	34.9	47	Unspecified	Pole sized aspen mixed with some log sized red pine and a few oak. Stand has an open area with red and jack pine.
17	4133 - Aspen, Mixed Pine	Poletimber Well	59.4	44	Unspecified	Cut in 1973, all merch aspen, jack pine, red maple, and birch were cut. Will be good wildlife stand when it is harvested, could be harvested now or next YOE.
18	4133 - Aspen, Mixed Pine	Sapling Well	36.4	29	Unspecified	Harvested in 1988. Canker on the aspen, a few pockets of pine, south edge of stand slopes down to stand 52.
19	42250 - Pine, Oak	Poletimber Medium	12.3	46	51-80	Maple, aspen and jack pine were cut in 1998. East portion of stand has scattered log size oak left from the sale and west portion of the stand has pockets of pole sized white pine. Pockets of regeneration from the cut are scattered throughout the stand.
20	42220 - Natural Jack Pine	Poletimber Well	26.5	66	Unspecified	Jack pine strip left along the road from adjacent harvests. Jack pine is old and a few trees are starting to die out. Could harvest now since adjacent harvests have regenerated.
21	4130 - Aspen	Sapling Well	135.6	27	Immature	Harvested in 1990, mixed aspen stand with a couple pockets of jack pine. Borderline sapling/pole stand, a few of the aspen pockets are at pole size.
22	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	27.3	19	Immature	Harvested in 1998, mixed stand with open areas filling in with oak. Looks like some white pine and a few jack pine were left from the harvest.
23	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	18.1	46	Unspecified	Jack pine stand with a pocket of aspen. Aspen has balsam in the understory. Stand was cut in 1971 and notes indicate is was disked for jack pine regeneration. Looks to have worked well.
24	4130 - Aspen	Poletimber Well	41.8	44	Unspecified	Aspen dominated stand, pocket of red pine in the NW corner.
25	4131 - Aspen, Oak	Sapling Well	18.8	8	Immature	Harvested in spring 2009. Aspen, oak, maple mix with a couple of open areas in the middle filling in with more oak. Three retention islands left.
26	4133 - Aspen, Mixed Pine	Poletimber Well	39.4	49	Unspecified	Harvested in 1968, pockets of log sized red pine. Oak and jack pine is dying out.
28	4130 - Aspen	Poletimber Well	37.6	50	Unspecified	Scattered red pine throughout, stand is in good shape. Hold another 10 years.
29	4130 - Aspen	Poletimber Well	65.9	27	Immature	Final harvested in 1990. Variable diameters throughout the stand, average DBH seems to get larger further north you go. Overall a borderline sapling/pole stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	4131 - Aspen, Oak	Sapling Well	21.0	8	Immature	Good regeneration from the cut, mostly maple and aspen. Three retention islands left in the stand with some nice large pine.
31	4131 - Aspen, Oak	Poletimber Well	37.3	44	Unspecified	Harvested in 1973, scattered large oak left from cut. Hold stand at least 10 years.
32	4126 - White, Black, N. Pin Oak	Sawtimber Medium	128.1	97	51-80	Aspen, jack pine, and most of the red maple cut in 2000. South end of stand has a more open canopy and more regeneration in the understory. North end has rolling hills.
33	4199 - Other Mixed Upland Deciduous	Sapling Medium	39.8	7	Immature	Cut in 2010 under 72-011-08-01, all red pine was left. Stand has a few sparse areas, some areas with jack pine regeneration under 3 ft.
34	42498 - Red Pine (OI)	Sapling Well	37.6	23	Immature	Harvested in 1989, planted soon after. OPIC - FMD: Stand is 6-8' tall. Scattered jp and oak stump sprouts. A couple aspen pockets in the south. (old comments) PLANTED WITH TREES FROM MICHIGAN AND WISCONSIN IN DRY CONDITIONS.
35	6122 - Black Spruce	Poletimber Poor	23.9	71	Unspecified	Some open areas throughout the stand with more spruce growing underneath, very wet in spots.
37	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	26.0	106	51-80	Very wet, many spots with standing water.
38	4130 - Aspen	Poletimber Well	68.9	27	Unspecified	Harvested in 1990 with stand 39. Rolling hills, stand is just reaching pole size class. Good component of white pine in areas.
39	4311 - Pine, Aspen Mix	Sapling Well	38.3	27	Immature	Harvested in 1990 with stand 38. Scattered red pine log sized trees are left along the road. Poor quality aspen with canker, growing slower and is slightly smaller diameter than stand 38. This stand also has a lot more jack pine than 38. Should be pole size next YOY.
40	42200 - Natural White Pine	Poletimber Poor	27.7	36	1-50	All red pine and white pine were left during harvest in 2010 under 72-011-08-01. Good amount of oak, aspen, and red maple regeneration in the understory.
41	4133 - Aspen, Mixed Pine	Poletimber Well	7.2	40	111-140	Everything removed but red pine in 1977. Most of the log sized red pine is at the west end of the stand, a pocket of jack pine at the east end of stand and the rest is pole sized aspen. Good amount of white pine in the understory.
42	42200 - Natural White Pine	Sawtimber Well	7.0	161	201+	Large white pine trees, unique stand. A couple areas of white pine regeneration.
43	4311 - Pine, Aspen Mix	Sawtimber Well	19.9	72	111-140	Pockets of white pine mixed with pockets of over mature aspen. North end of stand gets wet with more maple/basswood. Scattered Xlog white pine in the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	42200 - Natural White Pine	Sawtimber Well	12.7	131	171-200	Big pine, neat stand to walk through. A couple of pockets of thick balsam fir in the understory, most of it is along the creek.
45	4133 - Aspen, Mixed Pine	Poletimber Well	42.6	39	Unspecified	Split this stand at the two track, this stand is more aspen dominated. Pockets of this stand were cut in 1978, a few wet areas especially in the NW corner. Easement to construct and maintain a driveway (L-10577): 20' wide driveway running through the North end of stands 49 and 45.
46	42210 - Natural Red Pine	Sawtimber Well	22.5	76	81-110	Variable understory, west half has pockets of balsam fir and east half is more open with white pine and red maple. Stand could be held for large pine in the future.
47	42110 - Planted Red Pine	Sawtimber Well	4.4	77	111-140	Red Pine left along the road when stand 34 was harvested.
48	6122 - Black Spruce	Poletimber Well	5.6	65	111-140	Very wet stand, thick with tag alder in places. Not harvestable.
50	4130 - Aspen	Sapling Well	10.5	7	Immature	Harvested in 2010 under 72-011-08-01. Good aspen regeneration under white pine left from the harvest.
51	42220 - Natural Jack Pine	Poletimber Well	11.1	66	Unspecified	This stand was left as a visual buffer along the road when stand 53 was harvested. Jack pine dominated, will hold longer if needed.
53	4310 - Pine, Oak Mix	Sapling Well	35.2	31	Immature	Harvested in 2012 under contract 72-011-08-01. Trees 4 inches and up were cut resulting in a lot of white pine left. South of the road has more red pine. Approved through compartment review to accept current regeneration.
54	42200 - Natural White Pine	Sawtimber Well	5.8	111	171-200	Slope leading down to Big Creek, large red pine and white pine. One pocket of thick balsam fir in the understory.
55	4199 - Other Mixed Upland Deciduous	Sapling Well	21.0	18	Immature	Harvested in 1999. Stand is mostly stump sprout maple with pockets of aspen and a few scattered stump sprout oak. Jack pine is growing along the two track through the middle of the stand. NE corner of the stand is regenerating from a fire a few years after the cut.
58	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	13.4	27	Immature	Harvested in 1990 with stand 29. Small valley filling in with jack pine and cherry with a couple of aspen pockets. A few large hawthorn shrubs found.
59	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Poor	10.5	81	111-140	Mixed stand of log sized white pine, red pine, and cedar close to the creek and pole sized balsam fir on the slope leading up the hill to stand 8.
60	42120 - Planted Jack Pine	Sapling Well	55.4	24	Immature	Planted in 1993. Small pocket of natural aspen/jack pine mix in southeast corner of the stand along the road.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	42200 - Natural White Pine	Poletimber Well	20.8	66	81-110	White Pine dominated stand with scattered red pine, aspen, and red maple. North end of stand has a pocket of Xlog white pine. A couple of wet areas within the stand with some spruce. Variable stand, good for wildlife.
62	42210 - Natural Red Pine	Sawtimber Well	11.6	76	141-170	Red pine pocket left when stand 17 was harvested. Mixed with some aspen in the overstory and understory. At this point it would be best to harvest this stand when stand 17 is harvested and convert this to aspen. A few spots look like this may be a plantation but most of it looks natural.
64	4311 - Pine, Aspen Mix	Sawtimber Well	20.0	71	81-110	Overmature aspen and jack pine in the stand, both starting to die out. A couple of wet areas found with tag alder. Heavy browse on the red maple in the understory.
66	42110 - Planted Red Pine	Sawtimber Well	4.1	77	111-140	Basically the same stand as 47, this stand was left during adjacent harvest.
71	6122 - Black Spruce	Poletimber Poor	13.4	81	1-50	Variable overstory, thick understory of balsam and spruce. Very wet closer to the creek and a few upland areas on eastern edge of the stand. Some budworm damage on the spruce.
73	42290 - Natural Mixed Pine	Poletimber Medium	8.0	56	141-170	Portions of this stand serve as a drainage into Big Creek. Some areas are open with tag alder and areas with mixed pine have a thick balsam fir understory.
76	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	13.4	7	Immature	Cut in 2010 under 72-011-08-01, all red pine left. Similar to stand 33 across the road, this one is a little more open. Jack pine was supposed to be planted around natural regeneration but is coming back naturally. Majority of jack pine is under 3ft tall, heavy browse on the oak.
78	4133 - Aspen, Mixed Pine	Poletimber Well	21.6	46	Unspecified	This part of the cut came back to more aspen. Good amount of red pine also.
80	4130 - Aspen	Sapling Medium	10.4	8	Immature	Cut in 2009 under contract 72-005-08-01. Used to be a jack pine stand but is regenerating to mostly aspen with some cherry, oak, and jack pine. A few open areas in the south half of the stand that should fill in with more regeneration over time.
81	6127 - Lowland Pine	Sawtimber Medium	11.3	111	51-80	Mixed stand of xlog red and white pine with tamarack, jack pine and aspen. Understory is very wet and filled with tag alder.
88	4133 - Aspen, Mixed Pine	Sapling Well	15.5	8	Immature	Was originally part of stand 3, harvested in 2009 under contract 72-005-08-01. This stand has some dense pockets of aspen regeneration and some areas of pole sized white pine that was left from harvest. This area had more jack pine and aspen so looks more like a clearcut than a thinning. South of two track has more dense regeneration while north has some open areas.

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Grayling Mgt. Unit

Report 7 – Forested Stands

Compartment: 7
Year of Entry: 2018



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
116	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	43.4	47	141-170	Stand is mostly jack pine/aspen mix with pockets of sawlog red pine. Stand was clearcut in 1970 leaving scattered seed trees, which are now the scattered older red pine and jack pine found. Good oak component in the understory throughout the stand.
117	6124 - Lowland Spruce- Fir	Poletimber Medium	8.6	61	51-80	Wet stand, some budworm damage. Very thick understory in some spots.



Stand	Cover Type	Acres	Managed Site	General Comments:
36	622 - Lowland Shrub	16.9	No	Did not visit, looks very wet.
49	622 - Lowland Shrub	20.9	No	Lowland shrubs surrounding Wright Creek. Easement to construct and maintain a driveway (L-10577): 20' wide driveway running through the North end of stands 49 and 45.
52	622 - Lowland Shrub	27.9	No	Lowland shrubs surrounding Wright Creek.
56	330 - Low-Density Trees	3.1	No	Stand created by wildfire. The fire killed the majority of regen from old sale. Sweet fern covers most of the ground, scattered oak and red maple trying to grow, being heavily browsed.
82	622 - Lowland Shrub	20.1	No	Lowland shrubs along the edge of the East Branch of Big Creek.
89	122 - Road/Parking Lot	7.7	No	County Road 489
119	622 - Lowland Shrub	2.1	No	Lowland shrubs surrounding Wright Creek.
149	622 - Lowland Shrub	2.0	No	Lowland shrubs surrounding Wright Creek.