



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72017

Entry Year 2023

Acreage: 1,788

County Oscoda

Management Area: AuSable Outwash

Revision Date: 2020-11-25

Stand Examiner: Kevin Ehlert

Legal Description:

Oscoda County, Elmer Township, T28N R2E, Sections 22, 26 and 27

Identified Planning Goals:

The primary management objective is to manage stands for species and structural diversity, health, productivity and sustainability while also managing for multiple use and visual management.

Soil and topography:

Soil types within this compartment consist of Roselawn Sands and Rubicon/Roselawn Sands on upland sites. Topography within this compartment is dominantly rolling terrain. Many kettle holes were found scattered throughout the compartment.

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

The majority of this compartment is comprised of state ownership. In section 22, a 40 acre parcel of private ownership exists and is used for residency. Several residences border the north side of this compartment.

Unique Natural Features:

Kirtland's warbler, Blad eagle, loon, prairie warbler, and Secretive locust are found around this compartment. Pine barrens species of Hill's thistle, pale agoseris, rough fescue, Allegheny Plum, and Secretive locust have been found directly east in the "Frost pocket". There is potential for the secretive locust to occur in jack pine in this compartment and excellent potential for the pine barren's plants to be found in the pine barrens and dry sand prairie that may occur in this compartment. There is also potential for dusted skipper, grizzled skipper, Henry's elfin, red-legged spittlebug, Kirtland's warbler, and prairie warbler in this compartment.

Archeological, Historical, and Cultural Features:

None recorded.

Special Management Designations or Considerations:

The Hill's Thistle, Snowmobile and Cycle trail should all be considered in the management of this compartment. Also visual management is a concern because of the accessibility of the compartment from county roads.

Watershed and Fisheries Considerations:

None

Wildlife Habitat Considerations:

Several grassy opening exist within this compartment and are maintained by Wildlife Division. Other habitat is to be maintained for deer, grouse and wild turkey.

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

Compartment can easily be accessed from several County Roads. These roads include Centerline Road, Penn Road, Oak Road and Pennsylvania Crossing Road. All roads but, Centerline Road are seasonal. Several two track trails spur off from these County Roads.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

A designated snowmobile trail (Muskrat Lake Trail # 4 & #9), the Mio ORV trail, Mio ORV Route, and cycle trail traverse through this part of this compartment. Other recreational opportunities include hunting, bird watching and mushrooming.

Fire Protection:

There are no nearby water sources readily available for fire protection. This compartment contains several gas wells scattered about the landscape with buried pipeline going to and from them. This will require contacting the Oil and Gas Companies if fire occurs.

Additional Compartment Information:

The following reports from the Inventory are attached:

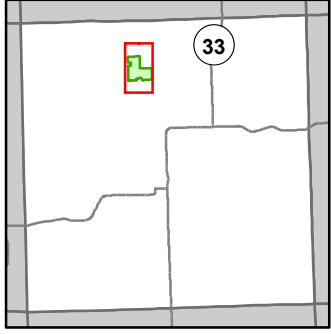
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

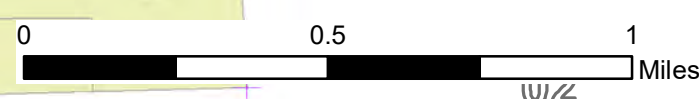
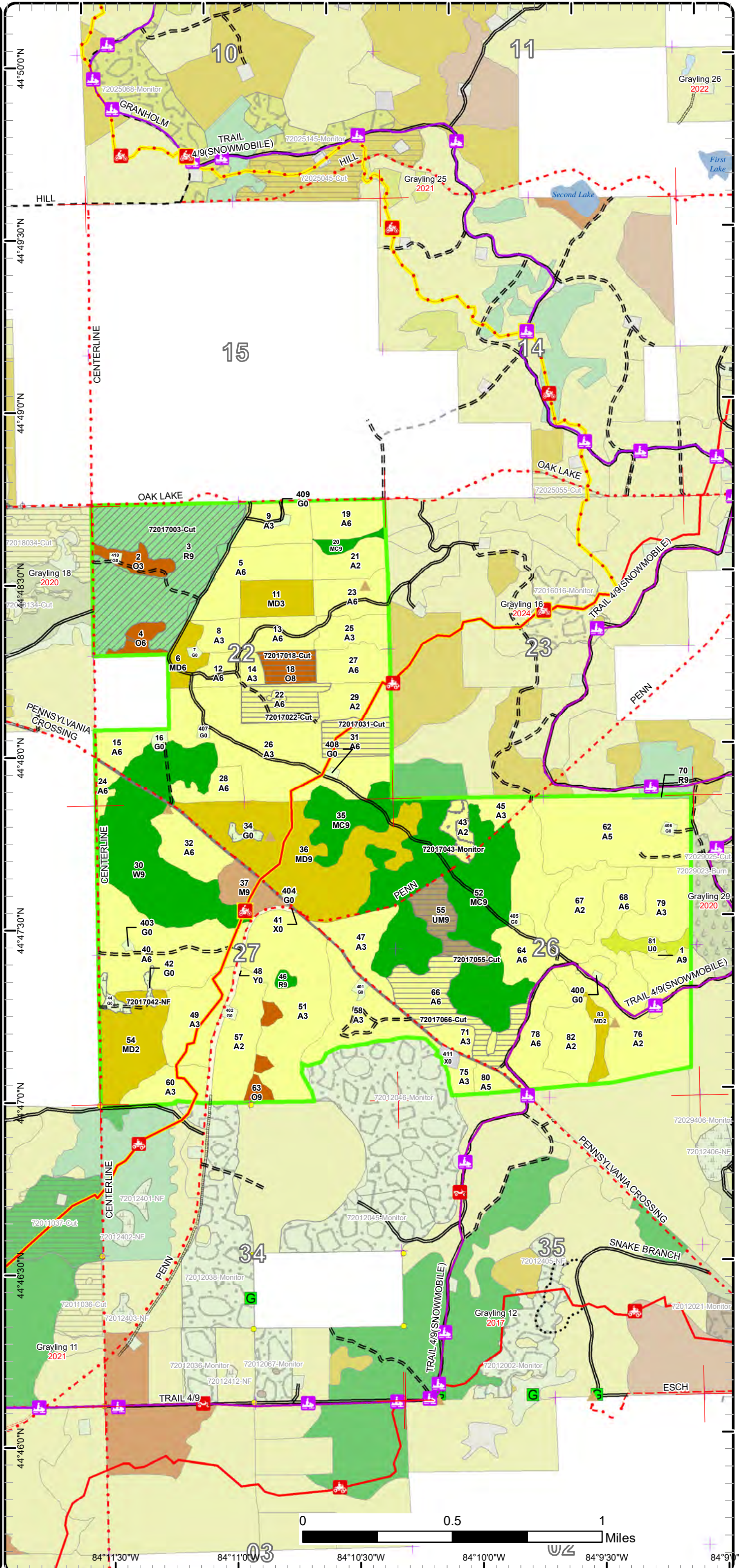
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 17
 T28N, R02E, Sec. 22, 26-27
 County: Oscoda
 Unit: Grayling
 Mgmt Area: AuSable Outwash
 YOE: 2023
 Acres: 1787.8 GIS Calculated
 Examiner: Kevin Ehlert
 Map Revised: 8/31/2021
 Map Phase: Review



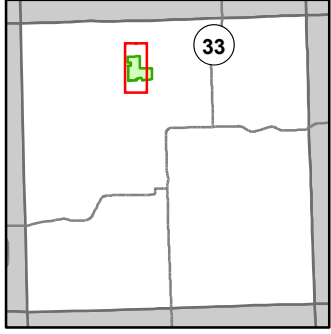
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- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
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- Lakes and Rivers
- Berms
- Gate
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 710 - Sand/Soil



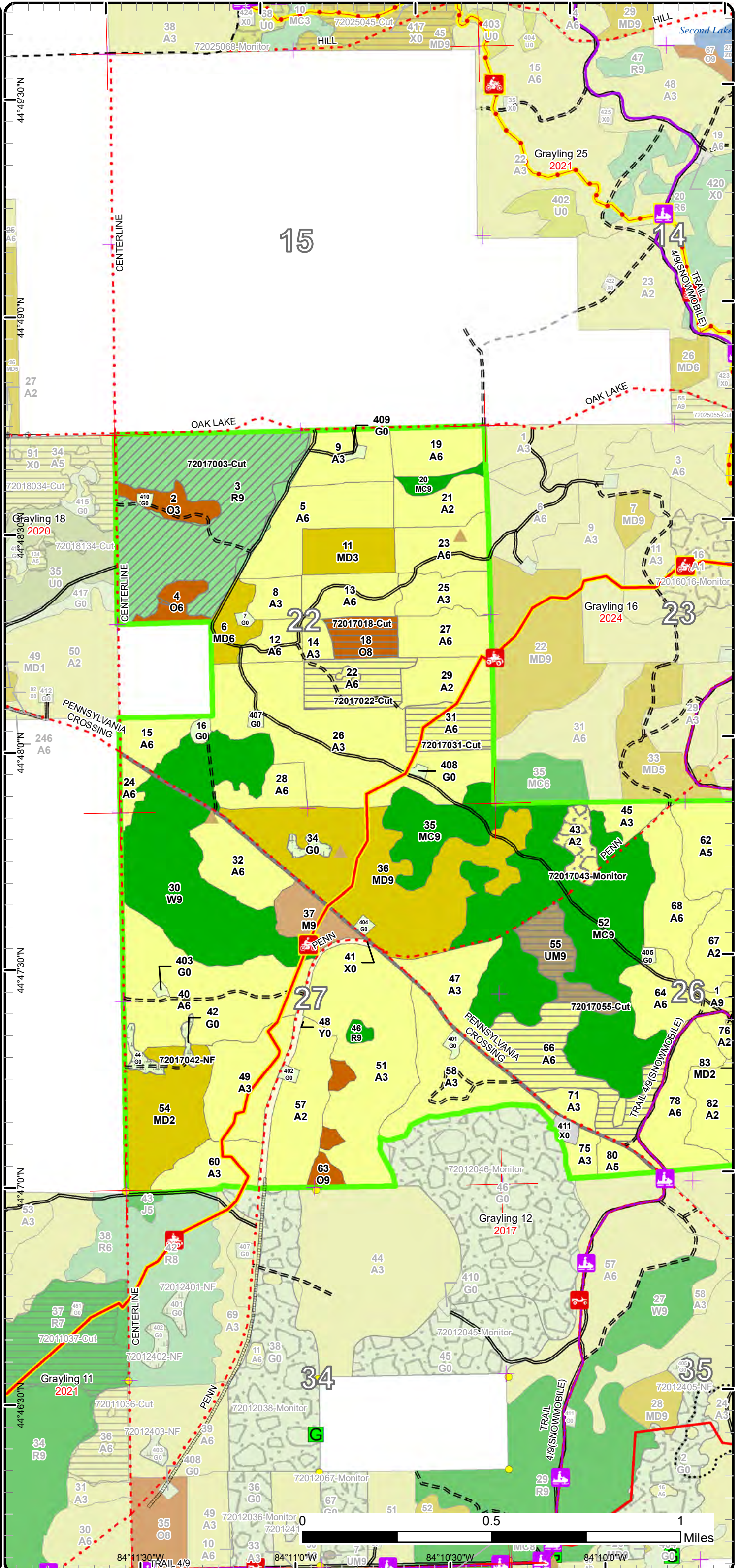
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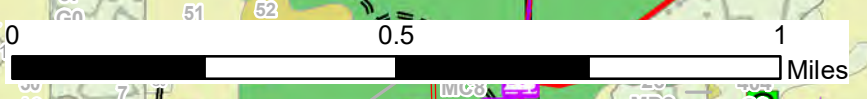
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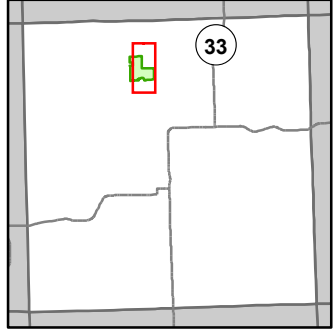
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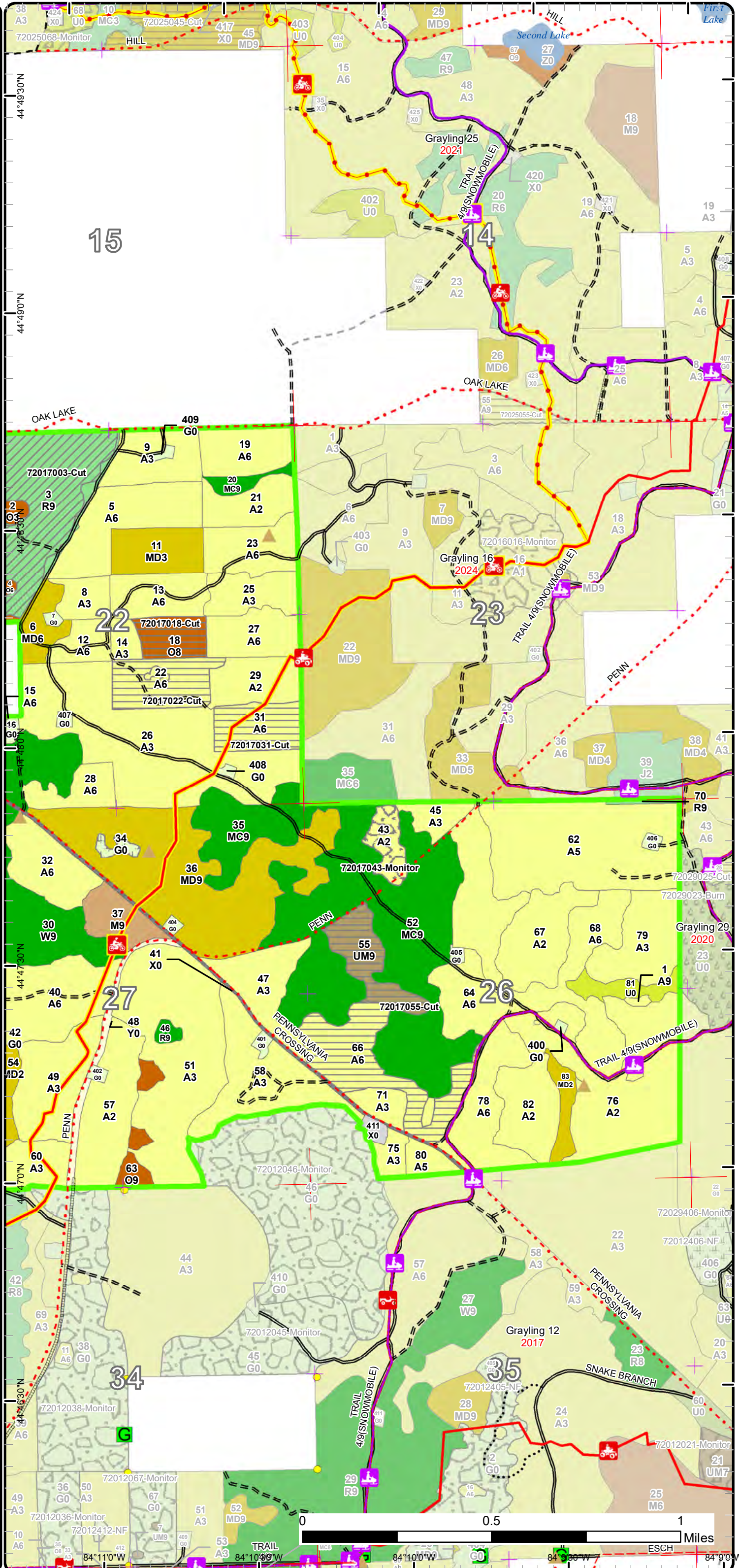
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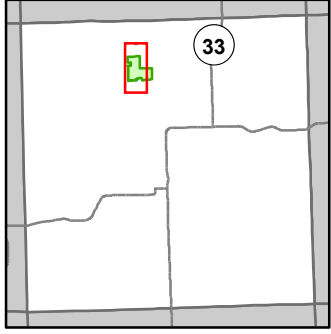


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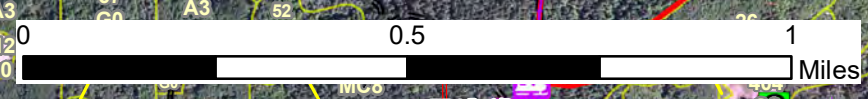
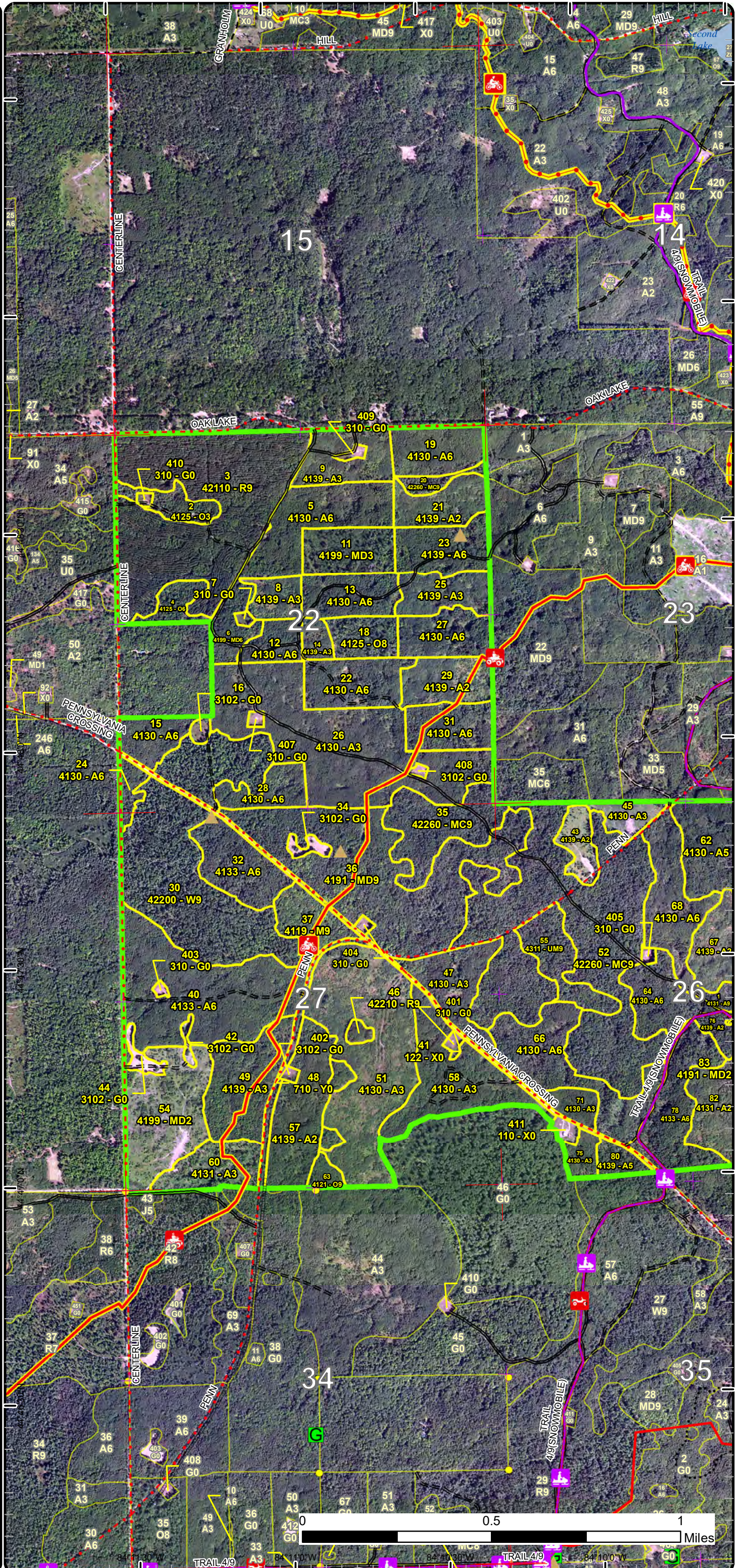


Stand Boundary Map

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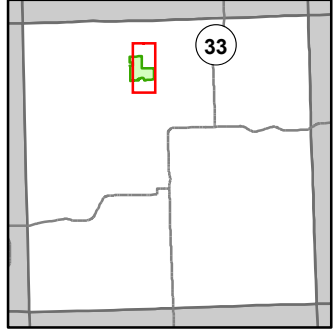
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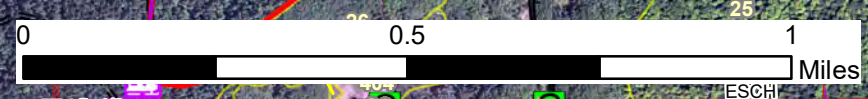
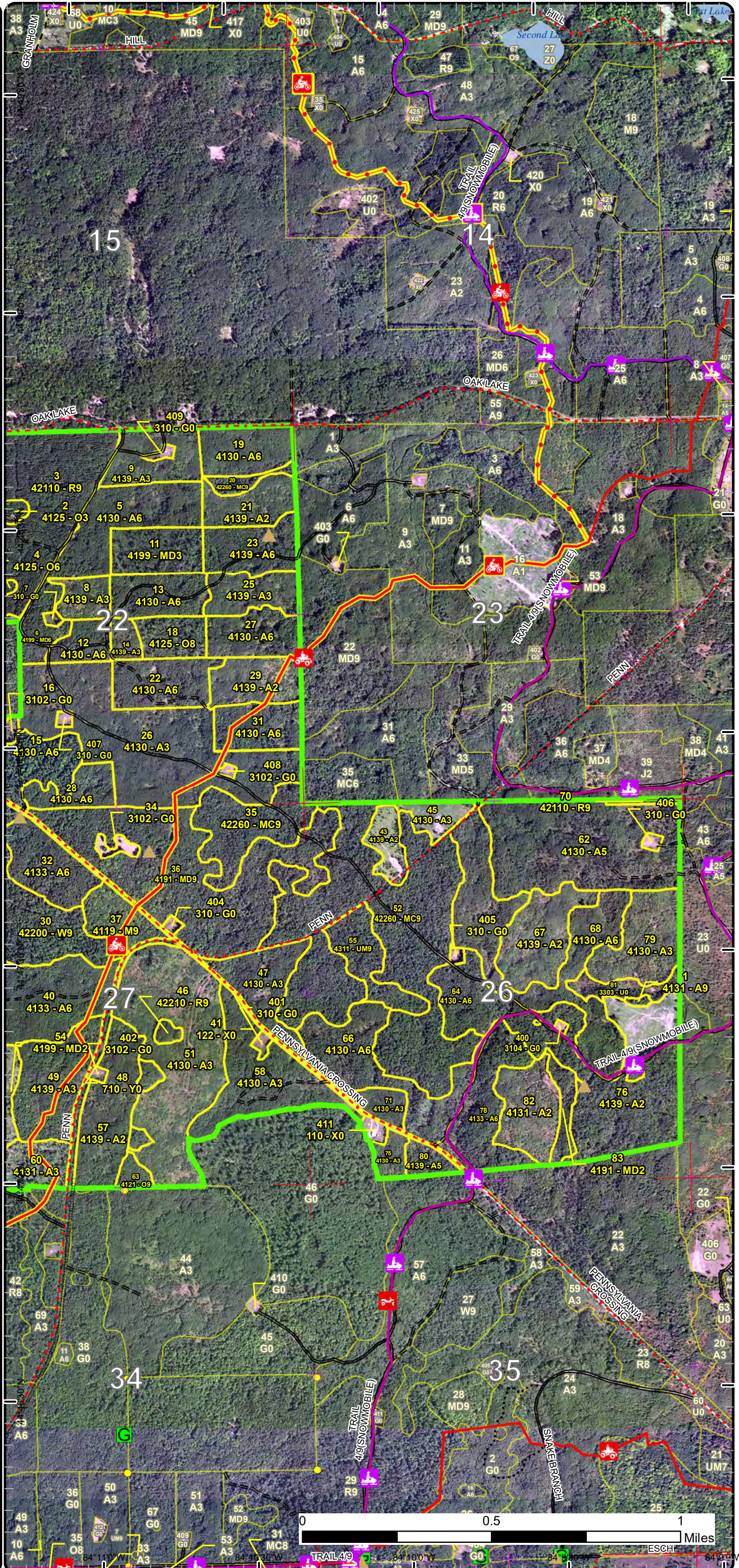
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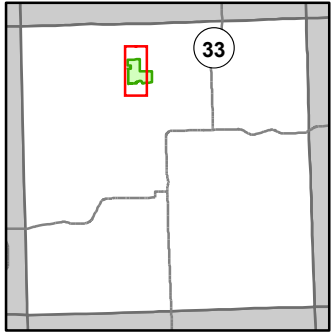
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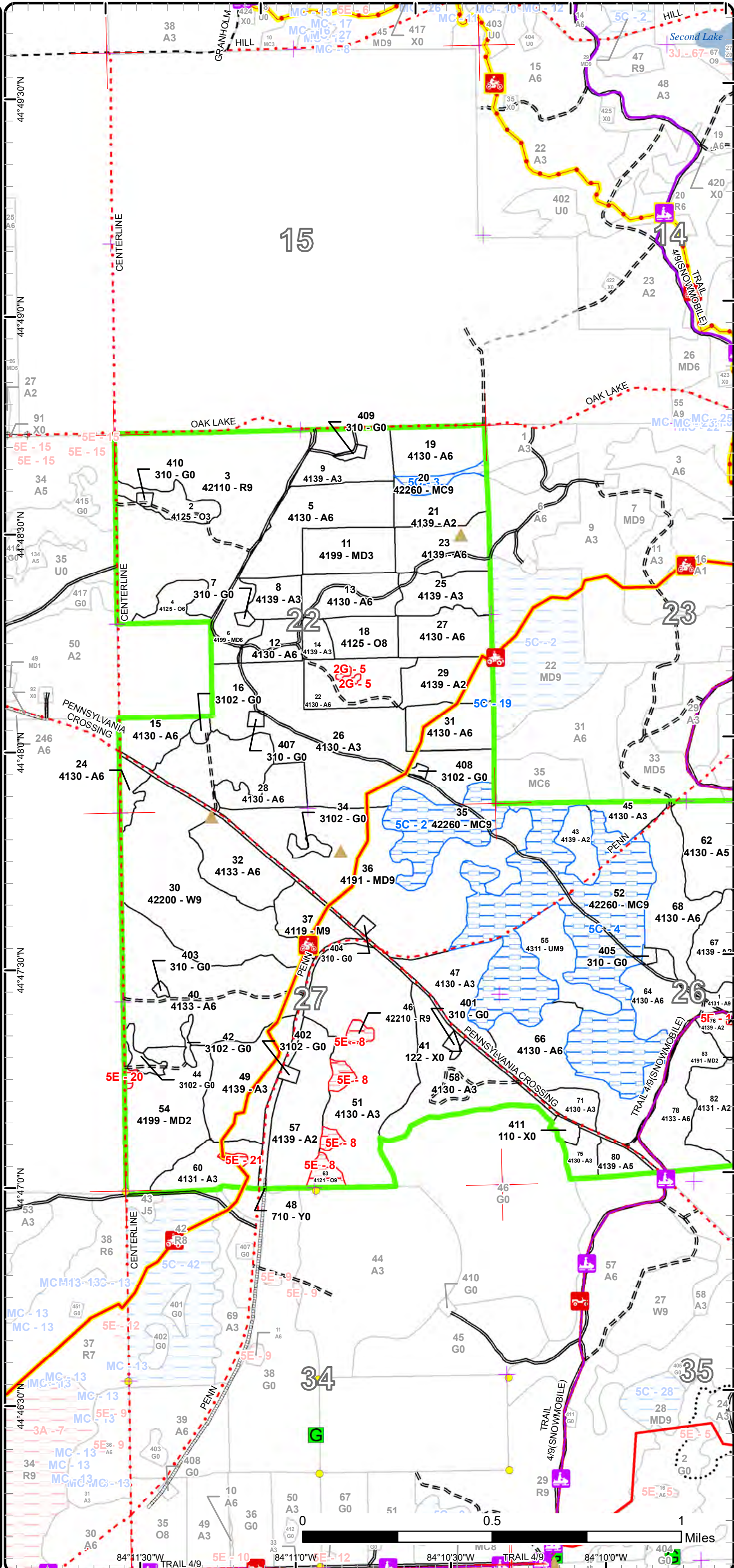
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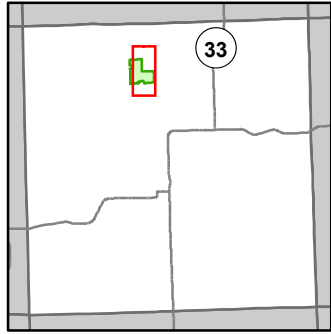


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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries

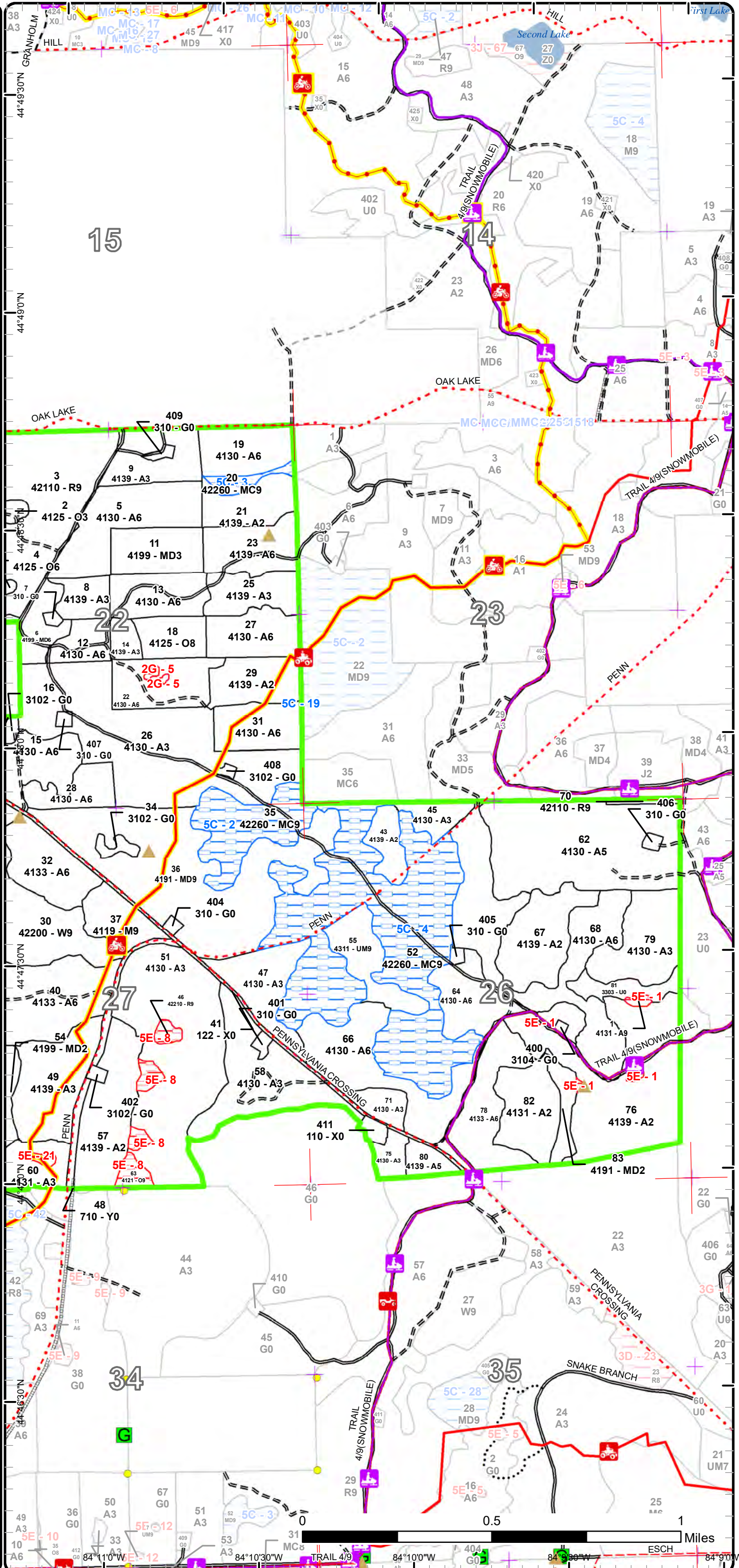


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Report 1 – Total Acres by Cover Type and Age Class



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	99	252	232	332	144	46	0	0	0	0	2	0	0	0	0	0	0	1107
Herbaceous Openland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	61	8	12	0	98	0	0	0	0	0	0	0	0	0	0	0	179
Natural Mixed Pines	0	0	0	0	0	0	0	30	140	0	0	0	0	0	0	0	0	0	170
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
Oak	0	0	0	18	0	0	0	0	0	0	8	13	0	0	0	0	0	0	39
Red Pine	0	0	0	0	0	0	2	109	2	0	0	0	0	0	0	0	0	0	113
Sand, Soil	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	18
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	100
Total	50	99	313	258	344	144	146	158	142	100	22	15	0	0	0	0	0	0	1790



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 17

Total Compartment Acres: 1,788

Commercial Harvest - 214
 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	78	0	0	0	0	0	0	0	0	78
Oak	13	0	0	0	0	0	0	0	0	13
Red Pine	0	0	0	0	0	105	0	0	0	105
Upland Mixed Forest	19	0	0	0	0	0	0	0	0	19
Total	109	0	0	0	0	105	0	0	0	214

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	214	0	0	0	0	0	10	0	8	231
Next Step	0	0	0	0	0	0	109	0	0	109
Total	214	0	0	0	0	0	119	0	8	341



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

3	72017003-Cut	104.8	42110 - Planted Red Pine	Sawtimber Well	61	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Low thinning, target residual basal area of 110sqft/acre of red pine. Remove suppressed stems first, then mark from lowest to highest quality to reach target basal area. In pockets of higher basal area, do not remove more than 50% of basal area. Walk through small pockets of deciduous species where there is not currently 110sqft/acre of red pine.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

18	72017018-Cut	12.6	4125 - Black, N. Pin Oak	Sawtimber Medium	104	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Final harvest. No retention due to declining health of overstory oak.

Specs:

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

Acceptable Aspen with a mix of oak and maple.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

22	72017022-Cut	21.2	4130 - Aspen	Poletimber Well	37	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest all species 2" and up. Utilize area based retention, focused around the lowland inclusions.

Specs:

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

Acceptable Aspen with associated mixed deciduous species
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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31	72017031-Cut	18.4	4130 - Aspen	Poletimber Well	37	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest all species 2" and up. Utilize area based retention in islands. Use recreation trail protection specs.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with other mixed deciduous species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

34	72017034-NF	2.6	3102 - Grass	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, tree and shrub planting, Rx burning and herbicide application.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

42	72017042-NF	1.6	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
44 72017044-NF	3.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, tree and shrub planting, Rx burning and herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
55 72017055-Cut	18.5	4311 - Pine, Aspen Mix	Sawtimber Well	69	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up. Utilize island retention. Consider capturing some of the larger conifers in retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen stand with a component of mixed deciduous and conifer.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
66 72017066-Cut	38.6	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2" and up. Utilize island retention, and consider leaving the few white pines that are greater than 20" DBH. Utilize trail protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with associated mixed deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Small blowdown area in East end of stand has been excluded from treatment shape.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Approved Treatments:

43 72017043-Monitor	9.6	4139 - Aspen, Mixed Deciduous	Sapling Medium	17	Immature	Monitoring	Natural Regen (Re-Inventory)	4123 - Red Oak	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Start Date: 10/1 /2020

Total Treatment
Acreage Proposed: 231.3

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 17
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	5E
		With Condition	Not Available			
647	646	0	1	Aspen	0	1
13	13	0	0	Herbaceous Openland		
	0	0	0	Low-Density Trees		
13	12	0	1	Mixed Upland Deciduous		1
5	0	5	0	Natural Mixed Pines	5	
14	14	0	0	Northern Hardwood		
17	17	0	0	Oak		
2	2	0	0	Red Pine		
7	7	0	0	Sand, Soil		
	0	0	0	Upland Mixed Forest		
12	12	0	0	Urban		
99	99	0	0	White Pine		
830	823	5	2	Total Forested Acres	5	2
	99%	1%	0%	Relative Percent		

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long Term Retention for stand 76. Harvested under Yellow Back Aspen sale.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 17
Year of Entry: 2023

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	135	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention Islands from the harvest of Stand 51.							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	0	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 17
Year of Entry: 2023

21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
1	4131 - Aspen, Oak	Sawtimber Well	2.0	101	81-110	N/A	Retention islands for stand 84. Estimated location, did not have GPS file. Aspen stand mixed with Oak and other species. Two track/snowmobile trail traverses through the north portion of the stand.																																																											
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2	4125 - Black, N. Pin Oak	Sapling Well	9.4	29	1-50	N/A	Young Oak stand of poles and saplings. A mix of Aspen and Pine within the stand along with other species.																																																											
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3	42110 - Planted Red Pine	Sawtimber Well	108.6	61	171-200	N/A	Stand was row thinned under contract 720460301 Avoid Hdws Red. Pockets of Oak/Aspen scattered throughout stand. Two track traverses through the stand and along east side of stand. Stand borders Centerline Road and Oak Road.																																																											
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4	4125 - Black, N. Pin Oak	Poletimber Well	8.2	28	1-50	N/A	Small patch of stump sprout oak pole/saplings mixed with other deciduous species. South end of stand borders private property.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
6	4199 - Other Mixed Upland Deciduous	Poletimber Well	11.7	37	51-80	N/A	Young Oak/Aspen stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Pole/Sapling	6		Red Maple	Medium	Variable	Sapling
Red Oak		43	Pole/Sapling	7	37	Quaking Aspen	Low	Variable	Sapling
Paper Birch		2	Pole/Sapling	6		Cherry (spp.)	Low	Variable	Tall Shrub
Quaking Aspen		30	Pole/Sapling	6		Oak (spp.)	Medium	Variable	Sapling
7	310 - Herbaceous Openland	Nonstocked	1.0			No			
8	4139 - Aspen, Mixed Deciduous	Sapling Well	9.4	17	Immature	N/A	Immature Aspen stand. Final harvested under contract 720090301 Mystified Oak Aspen Block.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Sapling	1		Red Maple	Low	Variable	Sapling
Red Oak		15	Sapling	1		Cherry (spp.)	Low	Variable	Tall Shrub
Quaking Aspen		25	Sapling	1	17	Oak (spp.)	Low	Variable	Sapling
Bigtooth Aspen		25	Sapling	1					
Black Cherry		15	Sapling	1					
9	4139 - Aspen, Mixed Deciduous	Sapling Well	20.2	17	Immature	N/A	Immature aspen stand mixed with oak and red maple. Stand was final harvested under contract 720090301 Mystified Oak Aspen Block. Strip of Oak was left along Hill Rd for visual management.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		20	Sapling	1					
Red Oak		2	Log/Pole	10					
Red Oak		15	Sapling	1					
Quaking Aspen		28	Sapling	1	17				
Bigtooth Aspen		25	Sapling	2	17				
Black Cherry		10	Sapling	1					
11	4199 - Other Mixed Upland Deciduous	Sapling Well	18.9	17	1-50	N/A	Stand was to be thinned to 70 BA. More of a shelterwood cut. Cut in 2004 under contract 720090301 Mystified Oak Aspen Block. Understory is 7 yrs old.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		10	Log	14	104	Red Maple	Medium	Variable	Sapling
Red Oak		25	Sapling	1	17	Quaking Aspen	Medium	Variable	Sapling
Quaking Aspen		35	Sapling	1	17	Cherry (spp.)	Medium	Variable	Tall Shrub
Red Maple		30	Sapling	1	17	Oak (spp.)	Low	Variable	Sapling
12	4130 - Aspen	Poletimber Well	10.0	37	51-80	N/A	Young Aspen pole stand with a mix of other deciduous species. Two track traverses through stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Pole/Sapling	6		Red Maple	Medium	Variable	Sapling
Red Oak		10	Pole/Sapling	6		Paper Birch	Low	Variable	Sapling
Quaking Aspen		30	Pole/Sapling	6		Aspen (spp.)	Medium	Variable	Sapling
Bigtooth Aspen		33	Pole/Sapling	6	37	Cherry (spp.)	Low	Variable	Tall Shrub
White Pine		2	Log/Pole	11		Oak (spp.)	Low	Variable	Sapling



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13	4130 - Aspen	Poletimber Well	18.8	37	81-110	N/A	Young Aspen stand with a mix of other deciduous species. Two track traverses through stand. small bog inclusion in East end of stand.																																																						
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14	4139 - Aspen, Mixed Deciduous	Sapling Well	5.2	17	Immature	N/A	Stand final harvested under contract 720090301 Mystified Oak Aspen Block. Immature Aspen.																																																						
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15	4130 - Aspen	Poletimber Well	12.4	36	51-80	N/A	Young pole stand of Aspen mixed with other deciduous species. Stand borders Pennsylvania Road and Centerline Road.																																																						
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16	3102 - Grass	Nonstocked	2.0			No	Grassy opening. Possibly an old well site, old wildlife opening or homestead. No evidence that it was any of them in the field																																																						
18	4125 - Black, N. Pin Oak	Sawtimber Medium	12.6	104	51-80	N/A	Stand was thinned in 2004 under contract 720090301 Mystified Oak Aspen Block. Residual BA 70. A lot of dieback and peeling bark in canopy oak. Understory is 17 yrs old, mostly Aspen/ Red maple but contains some oak.																																																						
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19	4130 - Aspen	Poletimber Well	19.4	37	81-110	N/A	Aspen stand mixed with Oak and Red maple mixed within stand in understory. white pine in understory near adjacent stand to south. Stand borders Oak Road.																																																	
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20	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	4.6	74	81-110	N/A	Mixed pine stand located in valley and side slopes. Small stand acres and location will make this stand not feasible to harvest at this time I believe. Leave for diversity within the area.																																																	
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21	4139 - Aspen, Mixed Deciduous	Sapling Medium	16.9	15	Immature	N/A	Stand was final harvested under contract 720720401 Grouse Aspen Oak.																																																	
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26	4130 - Aspen	Sapling Well	93.4	28	51-80	N/A	Small pole size Aspen stand last cut in 1993. Forest road and cycle trail races through stand.																																																																				
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27	4130 - Aspen	Poletimber Well	18.8	36		N/A	Young Aspen pole stand mixed with other deciduous species. Two track trail traverses into stand. Hilly, some more open, pockets within the stand.																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
28	4130 - Aspen	Poletimber Well	12.7	35	51-80	N/A	Young Aspen pole/sapling stand. Old undrivable two track within the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		2	Pole/Sapling	5		Red Maple		
Red Oak		2	Pole/Sapling	5		White Pine		
Quaking Aspen		70	Pole/Sapling	6	35	Aspen (spp.)		
Bigtooth Aspen		16	Pole/Sapling	6		Cherry (spp.)		
Black Cherry		10	Pole/Sapling	5		Oak (spp.)		
29	4139 - Aspen, Mixed Deciduous	Sapling Medium	18.3	15		N/A	Stand was final harvested under 720720401 Grouse Aspen Oak. Cycle trail traverses through stand. Stand has rolling hills and a couple small water holes in the West end. East half of stand is more poorly stocked, with a mosaic of forested/non-forested areas, but still achieving canopy cover>50%.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Sapling	1		Red Maple		
Red Oak		10	Sapling	1		White Pine		
Quaking Aspen		25	Sapling	1	15	Aspen (spp.)		
Bigtooth Aspen		30	Sapling	1	15	Cherry (spp.)		
30	42200 - Natural White Pine	Sawtimber Well	99.5	81	81-110	N/A	Stand was thinned last entry year under contract 720340401 Pennsylvania White Pine. Stand was originally to be thinned to 120 BA, but not enough White pine available across the stand to meet 120 BA. Accepted 80-90 residual BA instead. Stand borders Centerline Road and Pennsylvania Road.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		9	Log/Pole	12		Red Maple		
Red Oak		11	Log/Pole	12		Red Maple		
White Pine		60	Log	14	81	Red Oak		
Red Pine		20	Log	14		White Pine		
						Aspen (spp.)		
31	4130 - Aspen	Poletimber Well	18.4	37	81-110	N/A	Young Aspen pole stand mixed with other deciduous species. Cycle trail traverses through the stand. A few log size white pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		30	Pole/Log/Sap	7		Red Maple		
Bigtooth Aspen		67	Pole/Log/Sap	7	37	Paper Birch		
White Pine		3	Log/Pole	10		Witch Hazel		
						Aspen (spp.)		
						Cherry (spp.)		
32	4133 - Aspen, Mixed Pine	Poletimber Well	23.3	44		N/A	Aspen pole stand mixed with Red and White pine. Stand borders Pennsylvania Road.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Basswood		2	Log	12		Red Maple		
Paper Birch		5	Pole/Log	8		White Pine		
Quaking Aspen		68	Pole/Sapling	7	44	Aspen (spp.)		
White Pine		10	Log/Pole	10		Cherry (spp.)		
Red Pine		15	Log/Pole	10		Oak (spp.)		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																																																	
34	3102 - Grass	Nonstocked	2.6		Immature	No	Maintained Wildlife opening. JC update: Rye was planted in 2014, buckwheat & clover in 2015, and rye in 2016 (W72-756).																																																																																																																	
35	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	30.2	69	171-200	N/A	White pine stand mixed with Red pine and Quaking Aspen. Some Oak and Red Maple within the mix. Two track traverses into stand. Some steep holes, especially in the East end. Recommend leaving stand as is for now.																																																																																																																	
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36	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	98.2	55	81-110	N/A	Stand borders Pennsylvania Road and ORV trail traverses through stand. Stand is a mix of species. Aspen, W.Pine and Sugar Maple are the dominant species. Stand also includes Red Pine, Paper Birch, Basswood, Beech, Cherry and Red Maple. Stand may or may not have been cut in the past. Could not find any records of a cut. This stand I would consider of being a two story stand. Aspen is approx. 45 years old and older. W. Pine, Red Pine, Sugar Maple etc off an older age.																																																																																																																	
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37	4119 - Mixed Northern Hardwoods	Sawtimber Well	14.2	94	81-110	N/A	Northern Hardwood stand. thinned to a target of 90sqft/acre in 2017. Sale name: A Berry Good Mix. Cycle trail traverse through the stand. Stand borders Pennsylvania Road.																																																																																																																	
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40	4133 - Aspen, Mixed Pine	Poletimber Well	70.8	43	81-110	N/A	Aspen pole stand mixed with other deciduous species along with pine species. Two track traverses through the stand and cycle trail traverses through stand. West side of stand borders Centerline Road and East side borders Penn Road (Seasonal).																																																							
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41	122 - Road/Parking Lot	Nonstocked	9.5			No	Pennsylvania Road and Oil/gas pipeline.																																																							
42	3102 - Grass	Nonstocked	1.6		Unspecified	Managed Opening	Maintained Wildlife opening. JC update: Buckwheat & clover were planted in 2014, rye in 2015, and buckwheat & clover in 2016 (W72-756).																																																							
43	4139 - Aspen, Mixed Deciduous	Sapling Medium	9.6	17	Immature	N/A	Mix of immature aspen, oak and red maple resulting from 2004 harvest with some younger regen. Open areas contain cherry brush and raspberry. Need to give the stand more time to determine if enough oak gets past the browse line to meet oak management objective. If not, recommend accepting aspen/mixed deciduous as is.																																																							
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45	4130 - Aspen	Sapling Well	8.1	6	Immature	N/A	Harvested fall of 2015. Regen is mostly Aspen with some other mixed deciduous and white pine scattered throughout.																																																							
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46	42210 - Natural Red Pine	Sawtimber Well	2.2	78	141-170	N/A	Retention left in a patch from surrounding sale.																																																							
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48	710 - Sand, Soil	Nonstocked	7.4			No	Stand is Penn Road with an oil/gas pipeline along side of it. Road is dirt and seasonally maintained; pipeline is grasses/sedge with an narrow strip of trees between road and pipeline in the north																																																												
49	4139 - Aspen, Mixed Deciduous	Sapling Well	32.2	28	Immature	N/A	Aspen stand with some stems converting to pole class mixed with other deciduous species. Stand borders Penn Road (seasonal). Cycle trail traverses through the stand.																																																												
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51	4130 - Aspen	Sapling Well	77.7	15	Immature	N/A	Stand was final harveated in 2006 under contract 720380401 Two Penns Aspen. Stand borders Pennsylvania and Penn Roads. Contains four retention islands in the west half of stand with mature oak/Aspen and red/white pine.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	135.0	74	141-170	N/A	White Pine stand mixed with Aspen and other deciduous species. Stand also includes Red Pine. Penn Road traverses through stand and another two track traverses through the stand. Leave stand alone for now.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		6	Log/Pole	12		Red Maple	
Red Oak		4	Log	14		Red Maple	
Paper Birch		2	Pole/Log	8		Paper Birch	
Quaking Aspen		25	Log/Pole	10		Quaking Aspen	
White Pine		46	Log	14	74	White Pine	
Red Pine		15	Log/Pole	12		Oak (spp.)	
Jack Pine		2	Log/Pole	10		Density	
						Avg. Height	
						Size	

54	4199 - Other Mixed Upland Deciduous	Sapling Medium	42.1	15	Immature	N/A	Stand was shelterwood cut in the 2003 YOE then had an overstory removal in 2015. Regen is a mix of aspen, red maple and oak with trace component of white pine. Old notes: Harvested in fall of 2015, pockets of regeneration were protected. Stand was harvested last entry year under contract 720330301 Pennsylvania Oak. Shelterwood seed cut (40% crown). Stick nest located within the stand. Impact monitor plots within the stand. (Check on this). West side of stand borders Centerline Road and two track traverses along the south end of stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		35	Sapling/Pole	1	15		
Bigtooth Aspen		35	Sapling	1	15		
Black/Red (Hybrid) Oak		30	Sapling	1			

55	4311 - Pine, Aspen Mix	Sawtimber Well	18.5	69	111-140	N/A	Aspen stand mixed with mixed Pine (R and W Pine). Stand borders Penn Road.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		7	Log/Pole	10		Red Maple	
Red Oak		5	Log/Pole	10		Paper Birch	
Quaking Aspen		40	Log/Pole	10	69	Cherry (spp.)	
White Pine		30	Log/Pole	12		Oak (spp.)	
Red Pine		18	Log/Pole	12		Density	
						Avg. Height	
						Size	

57	4139 - Aspen, Mixed Deciduous	Sapling Medium	32.6	28	Immature	N/A	Young aspen stand. Some stems converting to pole class but majority is not merchantable. Stand borders Penn Road (seasonal) Oil/gas line on west side of stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		21	Sapling/Pole	4		Red Maple	
Red Oak		10	Sapling/Pole	4		Jack Pine	
Paper Birch		4	Sapling/Pole	4		Cherry (spp.)	
Quaking Aspen		48	Sapling/Pole	4	28	Oak (spp.)	
White Pine		4	Sapling/Pole	4		Density	
Red Pine		4	Sapling/Pole	4		Avg. Height	
Jack Pine		4	Pole/Sapling	5		Size	
Black Cherry		5	Sapling/Pole	4			



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58	4130 - Aspen	Sapling Well	38.7	28	Immature	N/A	Young Aspen sapling/pole stand mixed with other deciduous species. Stand borders Pennsylvania Road. Oil/gas line on north side of stand. Two track traverses through or within the stand.																																																							
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60	4131 - Aspen, Oak	Sapling Well	18.6	5	1-50	N/A	Harvested in spring of 2016, all oak under 6" DBH and red maple were left. Aspen regeneration is starting to come back well. Pole size oak and red maple residual from harvest. East side of stand borders Penn Road (seasonal). Cycle trail traverses through the stand.																																																							
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62	4130 - Aspen	Poletimber Medium	75.1	37	51-80	N/A	Aspen stand on rolling terrain. Variable in age, size and density, but average age is 37. Pole and log size Aspen along with Black Cherry pole timber and some log size trees. Several more open pockets with poorly stocked quaking aspen, jack pine and black cherry. Leave alone until more of the aspen has reached the pole size class, at which time a final harvest will expand the aspen into some of the more open areas.																																																							
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63	4121 - Oak, Aspen	Sawtimber Well	8.2	96	111-140	N/A	Small stands left for retention when surrounding stand was cut.																																																							
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64	4130 - Aspen	Poletimber Well	19.9	46	51-80	N/A	Stand of Aspen/Oak mixed with Red and White Pine. Two track trail traverse through a north portion of the stand.																																																							
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66	4130 - Aspen	Poletimber Well	39.8	52	81-110	N/A	Aspen pole stand. BT on ridges and Q in valley or lower areas. Mixed with other deciduous species. Pocket of pine in northwest corner of stand(Wp). Snowmobile/two track traverses through the east side of stand. East side of stand is a valley and west side of stand is a valley. ~1acre area that suffered heavy blow down damage and is regenerating to Aspen/red maple which is 15-20' tall.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		40	Pole	8	52	Red Maple		
Bigtooth Aspen		40	Pole	8	52	Quaking Aspen		
White Pine		8	Log/Pole	12		White Pine		
Red Pine		2	Log	12		Jack Pine		
Black Cherry		10	Sapling/Pole	4		Cherry (spp.)		
						Oak (spp.)		
						Density		
						Avg. Height		
						Size		
67	4139 - Aspen, Mixed Deciduous	Sapling Medium	27.6	17	Immature	N/A	Immature Aspen stand mixed with other deciduous species. Final harvested under contract 720460401 Bear Aspen Oak.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		15	Sapling	1				
Red Oak		15	Sapling	1				
Quaking Aspen		40	Sapling	1	17			
Black Cherry		25	Sapling	1				
68	4130 - Aspen	Poletimber Well	63.7	33	1-50	N/A	Young Aspen pole stand mixed with other deciduous species and some pine. Two track/snowmobile trail traverses through and along portions of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Sapling/Pole	4		Red Maple		
Red Oak		10	Sapling/Pole	4		Aspen (spp.)		
Quaking Aspen		30	Pole/Sapling	5		Cherry (spp.)		
Bigtooth Aspen		40	Pole/Sapling	5	33	Oak (spp.)		
Jack Pine		2	Sapling/Pole	4				
Black Cherry		3	Sapling/Pole	3				
						Density		
						Avg. Height		
						Size		
70	42110 - Planted Red Pine	Sawtimber Well	1.7	52	201+	N/A	Long narrow strip of planted Red pine. (8 ROWS) East end has survey marker and bearing trees.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		100	Log/Pole	10	52	Red Pine		
						Aspen (spp.)		
						Cherry (spp.)		
						Oak (spp.)		
71	4130 - Aspen	Sapling Well	7.1	28	Immature	N/A	Immature aspen stand mixed with other deciduous species. Stand borders Pennsylvania Road.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		100	Sapling	3	28	Red Maple		
						White Pine		
						Cherry (spp.)		
						Oak (spp.)		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
75	4130 - Aspen	Sapling Well	6.0	28	Immature	N/A	Immature aspen stand mixed with other deciduous species. Stand borders Pennsylvania Road. Pipeline parallels rd in stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		100	Sapling	3	28	Red Maple		Medium
						White Pine		Low
						Cherry (spp.)		Medium
						Oak (spp.)	Medium	
76	4139 - Aspen, Mixed Deciduous	Sapling Medium	71.7	2	Immature	N/A	Stand final harvested from 2017-2019 (72-004-13). North side of snow trail cut earlier and regen is doing well. The section South of the snowmobile trail was cut in 2019, and starting to fill in. Younger regen is currently 3-5' tall and expected to fill in more over the next couple years.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		50	Sapling	1	2			
Red Maple		25	Sapling	1				
Northern Pin Oak		15	Sapling	1				
Black Cherry		10	Sapling	1				
78	4133 - Aspen, Mixed Pine	Poletimber Well	29.9	43	141-170	N/A	Aspen pole timber mixed with White pine and some Oak on ridge.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		4	Pole/Log	8		Red Maple		Medium
Quaking Aspen		10	Pole/Sapling	7		White Pine		Low
Bigtooth Aspen		54	Pole	8	43	Cherry (spp.)		Low
Northern Pin Oak		10	Log/Pole	10		Oak (spp.)		Low
White Pine		20	Pole/Log	8				
Black Cherry		2	Pole	6				
79	4130 - Aspen	Sapling Well	27.4	17	Immature	N/A	Stand was harvested 7 yrs ago under contract 720640401 Bear Aspen Oak (final harvest). East side of stand borders Frost Pocket.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Sapling	1				
Red Oak		10	Sapling	1				
Quaking Aspen		65	Sapling	1	17			
Black Cherry		5	Sapling	1				
80	4139 - Aspen, Mixed Deciduous	Poletimber Medium	6.2	52	51-80	N/A	Aspen pole stand mixed with other species. Stand borders Pennsylvania Road. Pipeline parallels rd in stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		58	Pole/Sapling	7	52	Aspen (spp.)		Low
Northern Pin Oak		10	Pole/Sapling	7		Cherry (spp.)		Medium
White Pine		2	Log/Pole	10		Oak (spp.)		Low
Black Cherry		30	Pole/Sapling	7				
81	3303 - Mixed Low Density Trees	Nonstocked	8.7			No	Stand contains a valley with a couple deep holes forming a narrow, open/poorly stocked stand with steep slopes.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
82	4131 - Aspen, Oak	Sapling Medium	23.4	17	Immature	N/A	Stand was final harvested under contract 720640401 Bear Aspen Oak 7 yrs ago. Regen is a mix of aspen/ mixed deciduous with some clumps of Jack Pine.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>45</td> <td>Sapling</td> <td>2</td> <td>17</td> </tr> <tr> <td>Black Cherry</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	1		Red Oak	20	Sapling	1		Quaking Aspen	45	Sapling	2	17	Black Cherry	20	Sapling	1		Jack Pine	5	Sapling	2																
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83	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	8.0	28	Immature	N/A	Immature Oak, Jack pine and Aspen mixed. Some cherry. In a small valley.																																													
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400	3104 - Degraded	Nonstocked	0.6				Oil/gas well site. Delta Oil Co Inc, State Elmer C3-26.																																													
401	310 - Herbaceous Openland	Nonstocked	1.4				Herbacious opening. Oil/gas well site. Delta Oil Co Inc, State Elmer C4-27																																													
402	3102 - Grass	Nonstocked	1.2				Oil/gas well site. Delta Oil Co Inc. State Elmer C2-27																																													
403	310 - Herbaceous Openland	Nonstocked	0.7				Herbacious opening. Oil/gas well site. Delta Oil Co Inc, State Elmer B1-27.																																													
404	310 - Herbaceous Openland	Nonstocked	1.0				Herbacious opening. Oil/gas well site. Delta Oil Co Inc. State Elmer B3-27																																													
405	310 - Herbaceous Openland	Nonstocked	1.0				Herbacious opening. Oil/gas well site. Delta Oil Co, State Elmer B2-26.																																													
406	310 - Herbaceous Openland	Nonstocked	1.2				Herbacious opening. Gas well site. Delta Oil Company, State Elmer A4-26. (989) 732- 7999 or (630) 573-1717.																																													
407	310 - Herbaceous Openland	Nonstocked	1.1				Herbacious opening. GAS well. Delta Oil Co Inc, State Elmer D2-22.																																													
408	3102 - Grass	Nonstocked	0.8				Producing GAS well. Delta Oil Co Inc, State Elmer D4-22																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
409	310 - Herbaceous Openland	Nonstocked	1.2				Herbaceous opening. GAS well site. Delta Oil Co Inc, State Elmer A3-22
410	310 - Herbaceous Openland	Nonstocked	0.9				Herbaceous opening. GAS well site. Delta Oil Co Inc, State Elmer A1-22.
411	110 - Low Intensity Urban	Nonstocked	2.4				Oil/gas facility. Pumping station. Structures and the rest grass. Delta Oil Co Inc, Elmer, D1-26 SWD