



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72231

Entry Year 2025

Acreage: 1,643

County Crawford

Management Area: High Sand Plains

Stand Examiner: Derek Nellis

Legal Description:

T25N R03W Sections 11, 12, 13 and 14. East part of Beaver Creek Township

Identified Planning Goals:

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

Soil and topography:

The soils consist of Grayling, Graycalm and Pere cheney sand. The terrain is level to slightly rolling hills in section 13.

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

The compartment is a mix of state land and private property within and around the Compartment. Most of the private property is in small acreage (10 acre parcels) and many have dwellings. There is a large private gravel pit located just south of the Compartment. A narrow strip of private property (136 -200 feet wide) surrounds three sides of the ghost town of Pere Cheney. The Pere Cheney cemetery is located along the railroad tracks on the west on private property. A pipeline bisects the compartment. The Lake States corporation railroad bisects the compartment.

Unique Natural Features:

There is potential for rare dry prairie plants and insects to occur in grassy openings.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

None at this time

Watershed and Fisheries Considerations:

There are no water courses in the Compartment

Wildlife Habitat Considerations:

The compartment's aspen, oak and upland brush cover types provide good habitat for grouse, deer and turkey.

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 600 feet. Beneath the glacial drift is the Michigan Formation, quarried for gypsum elsewhere in the State. A gravel pit is located in Section 23 and potential is thought to be good on the upland areas. The entire Compartment is leased for oil and gas development. The Beaver Creek Field is located seven miles to the west. The field has produced over 21 MBO from the Devonian Richfield and over 5 Bcf gas from the Ordovician Prairie du Chien.

Vehicle Access:

County roads that provide access to the compartment include 5-Mile, Staley Lake, Pere Cheney and Billman Roads, in addition Beasley Ave, Cemetery Xing Trail, East Railroad Trails and Wilbur Lane are also part of the county road system. A network of two-track roads provide access to the interior. The Lake States Corporation Railroad which leases the rail line from MDOT bisects the compartment and there are only two places to cross the tracks: one at 7-Mile Road and the other at the snowmobile trail in the middle of section 11.

Survey Needs:

Several proposed treatments are adjacent to private property and surveys will need to be conducted to determine the property lines. A survey request has been submitted.

Recreational Facilities and Opportunities:

One designated snowmobile trails (#489) runs through the compartment, along with the Beaver Creek MCCCT trail. The compartment's main forms of dispersed recreation is hunting. The State (MDOT) owns the rail line and that runs through

this compartment.

Fire Protection:

Access to the compartment is good. Access within the compartment is not so good. Many of the interior roads are poor dirt roads that are narrow and consist of loose sand. The northwest part of the compartment is mainly jack pine. There are a number residences in and around the compartment. Consideration for structure protection is important.

Additional Compartment Information:

At this time we do not have legal access off of 5-Mile & Beasely Road.

The following reports from the Inventory are attached:

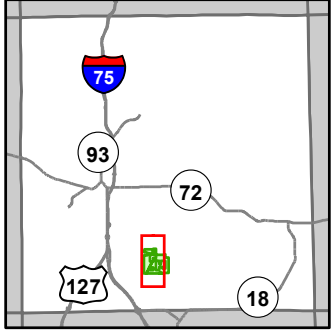
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

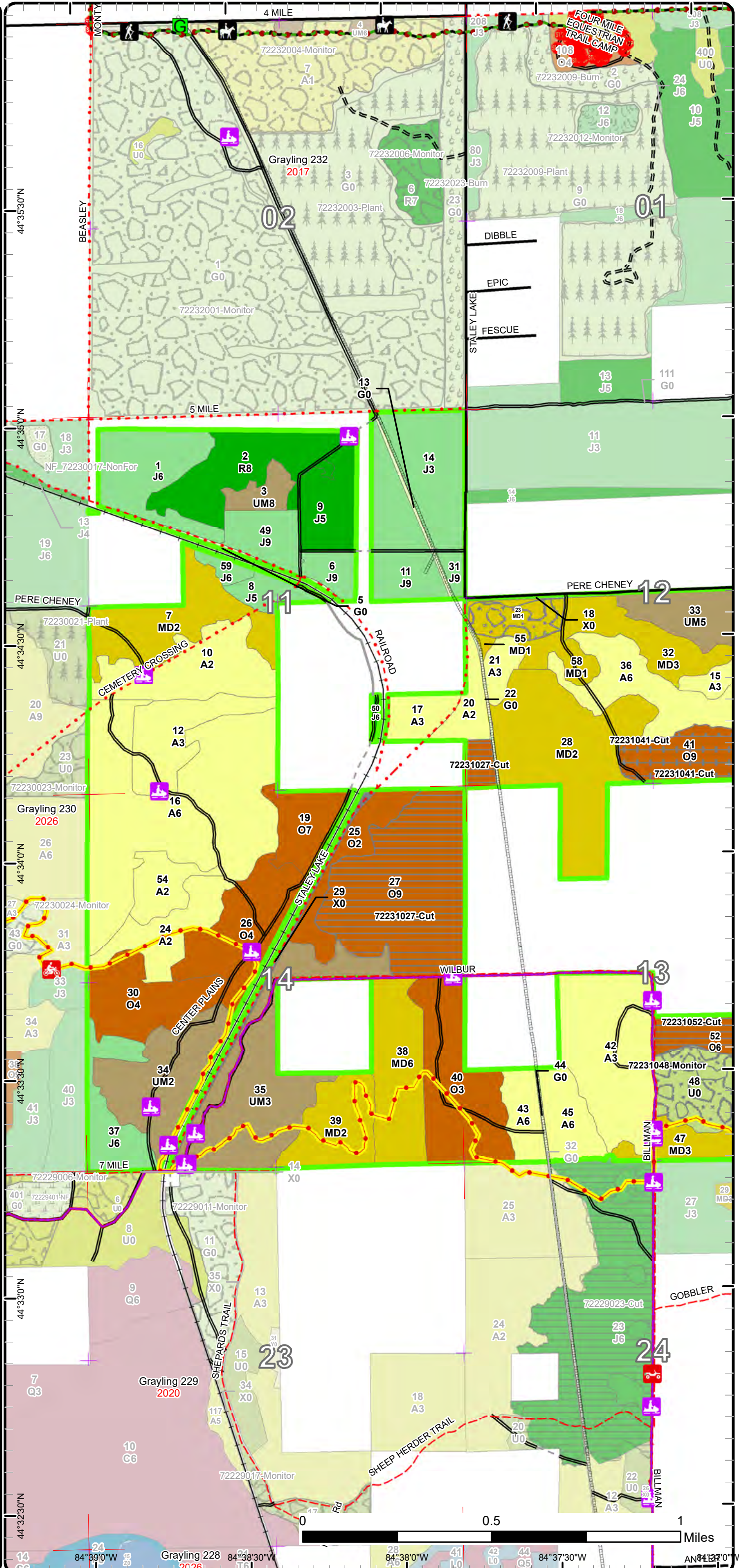
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 231
 T25N, R03W, Sec. 11-14
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 1643.5 GIS Calculated
 Examiner: Derek Nellis
 Map Revised: 11/27/2023
 Map Phase: Post-Maps

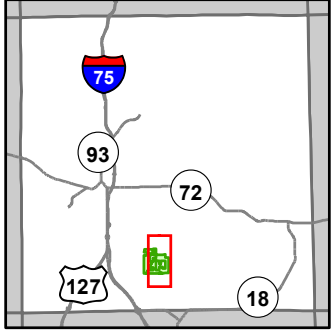


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
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- Horse Trails
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- Designated ORV Route
- Designated Snowmobile Trails
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- Lake/Pond
- Lakes and Rivers
- G Gate
- ▲ Campground
- STOP Sign
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Regeneration Survey
- 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
- 320 - Upland Shrub

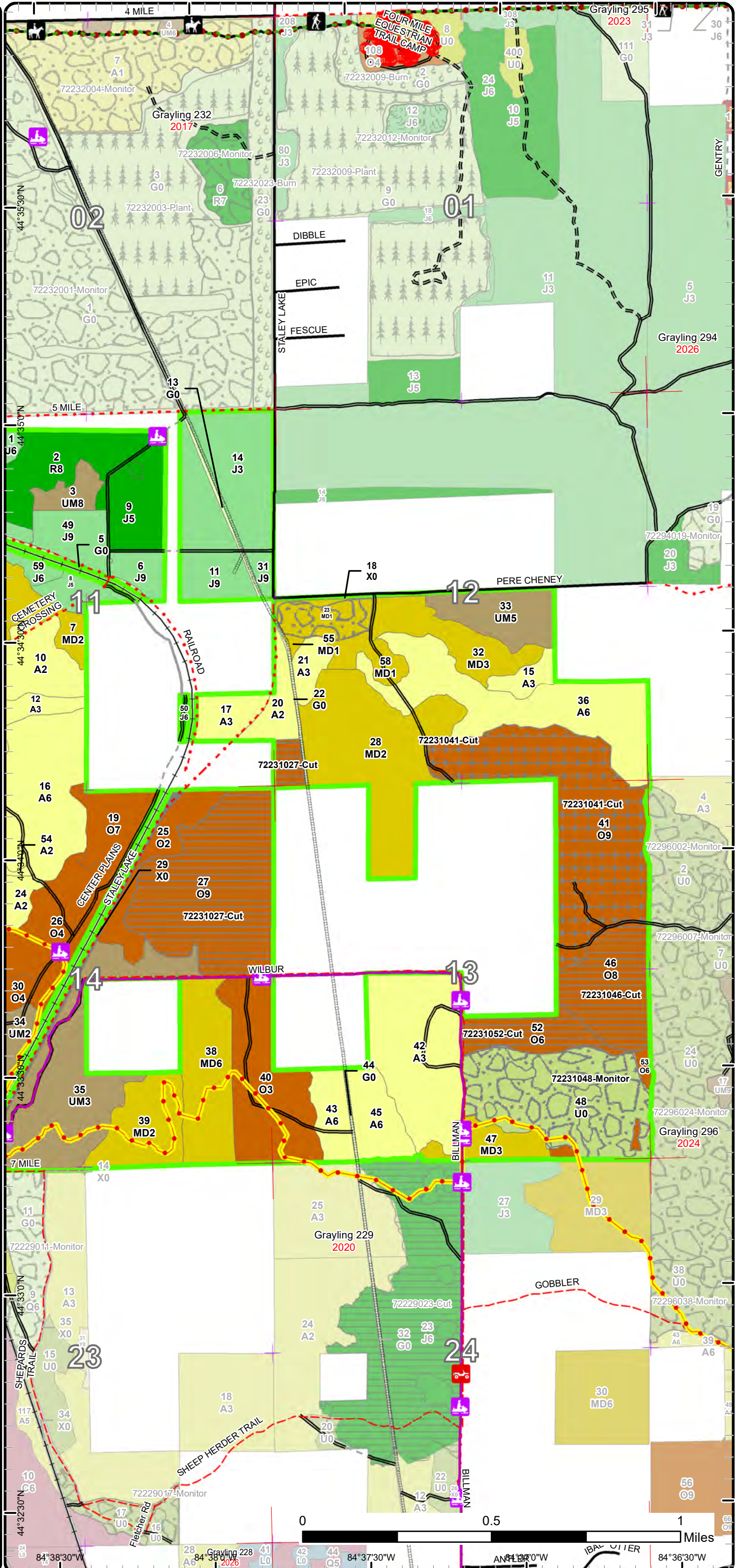


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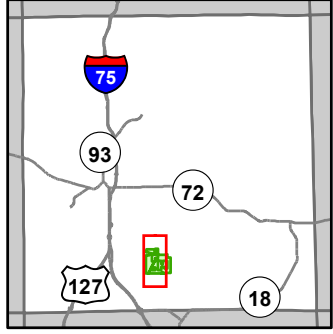


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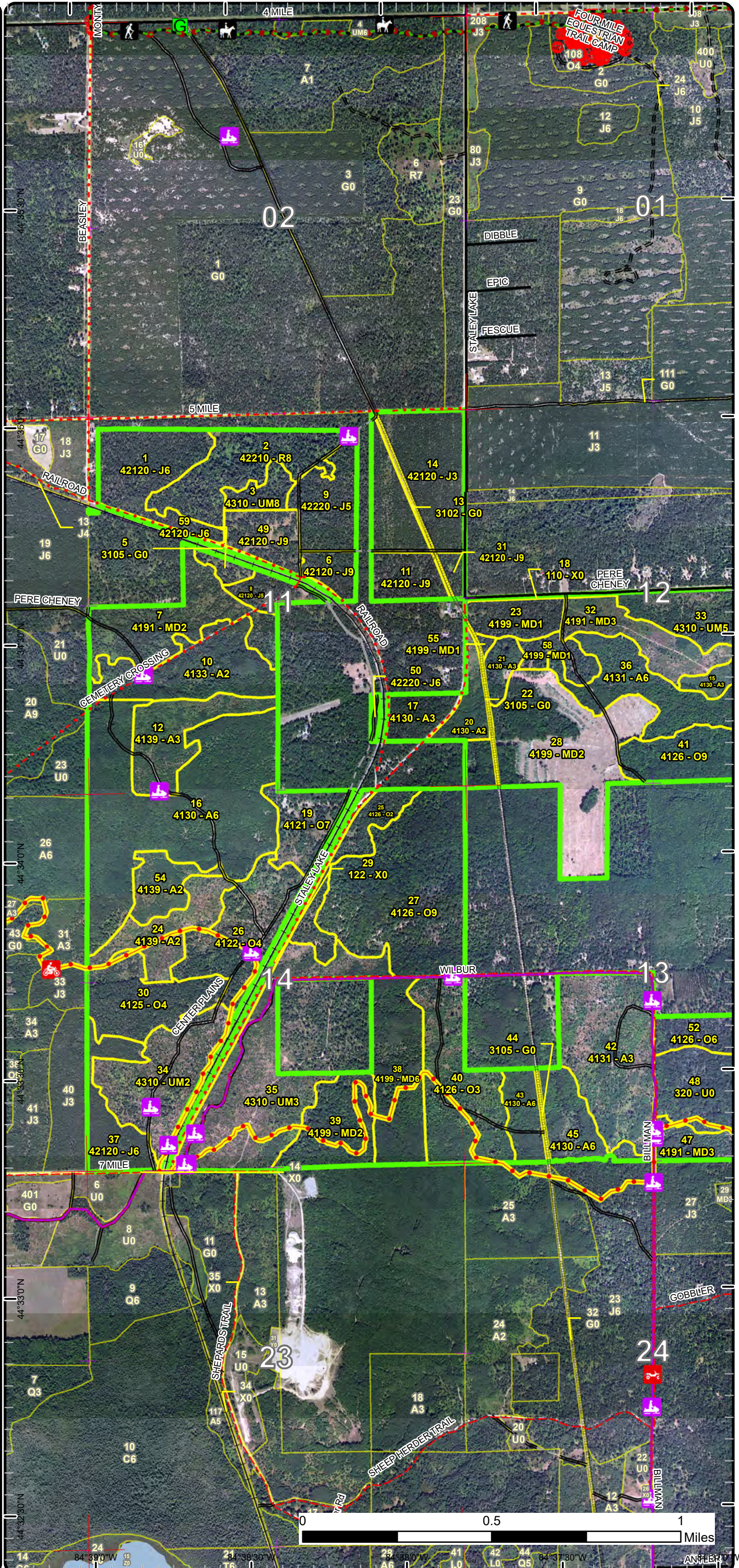


Stand Boundary Map

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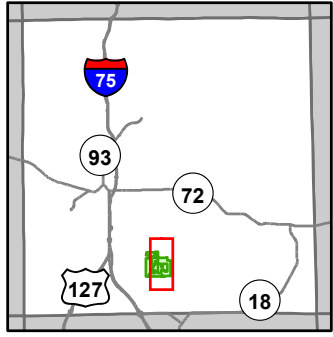


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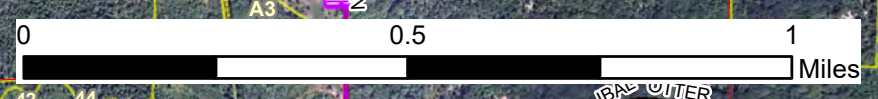
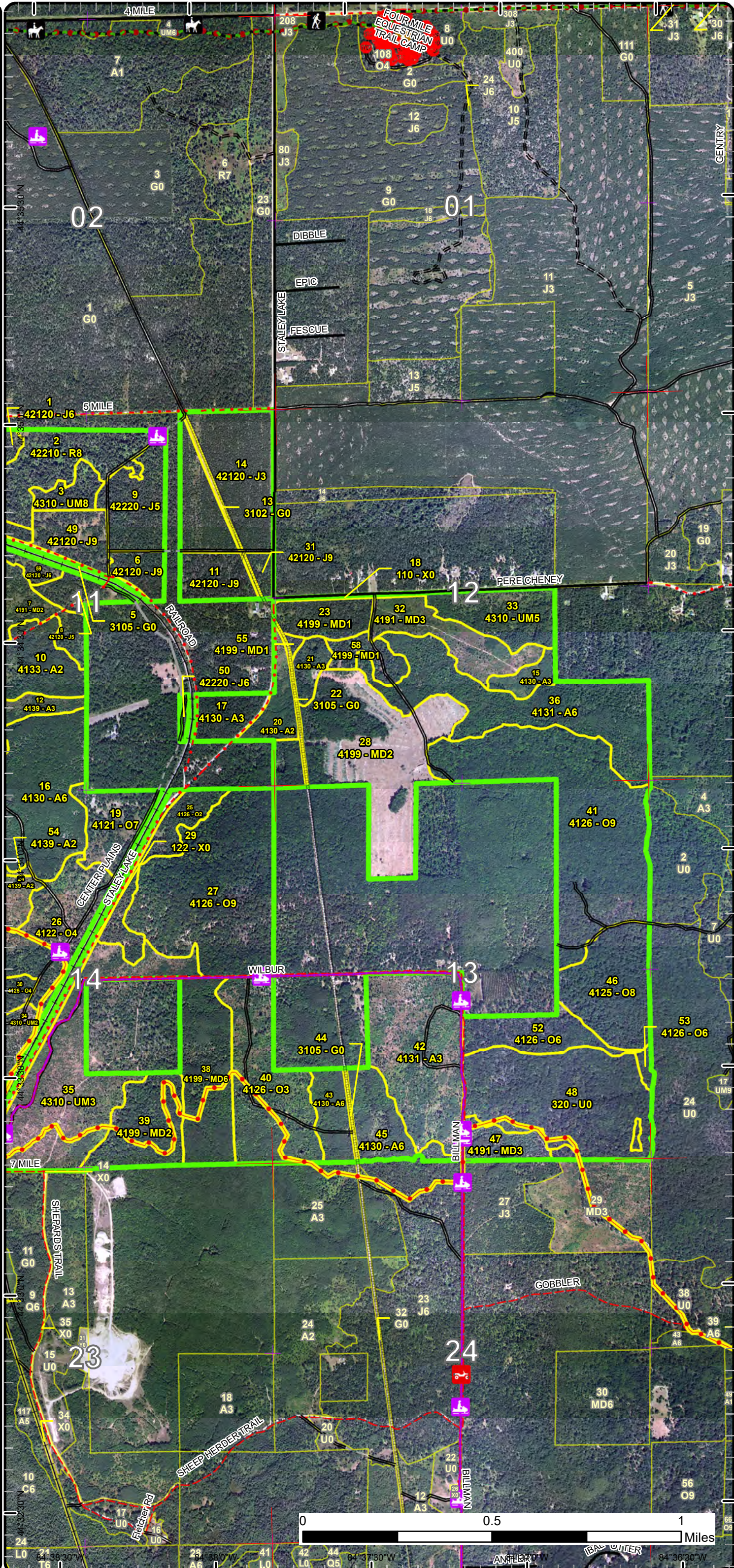


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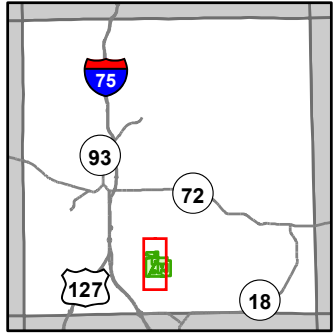
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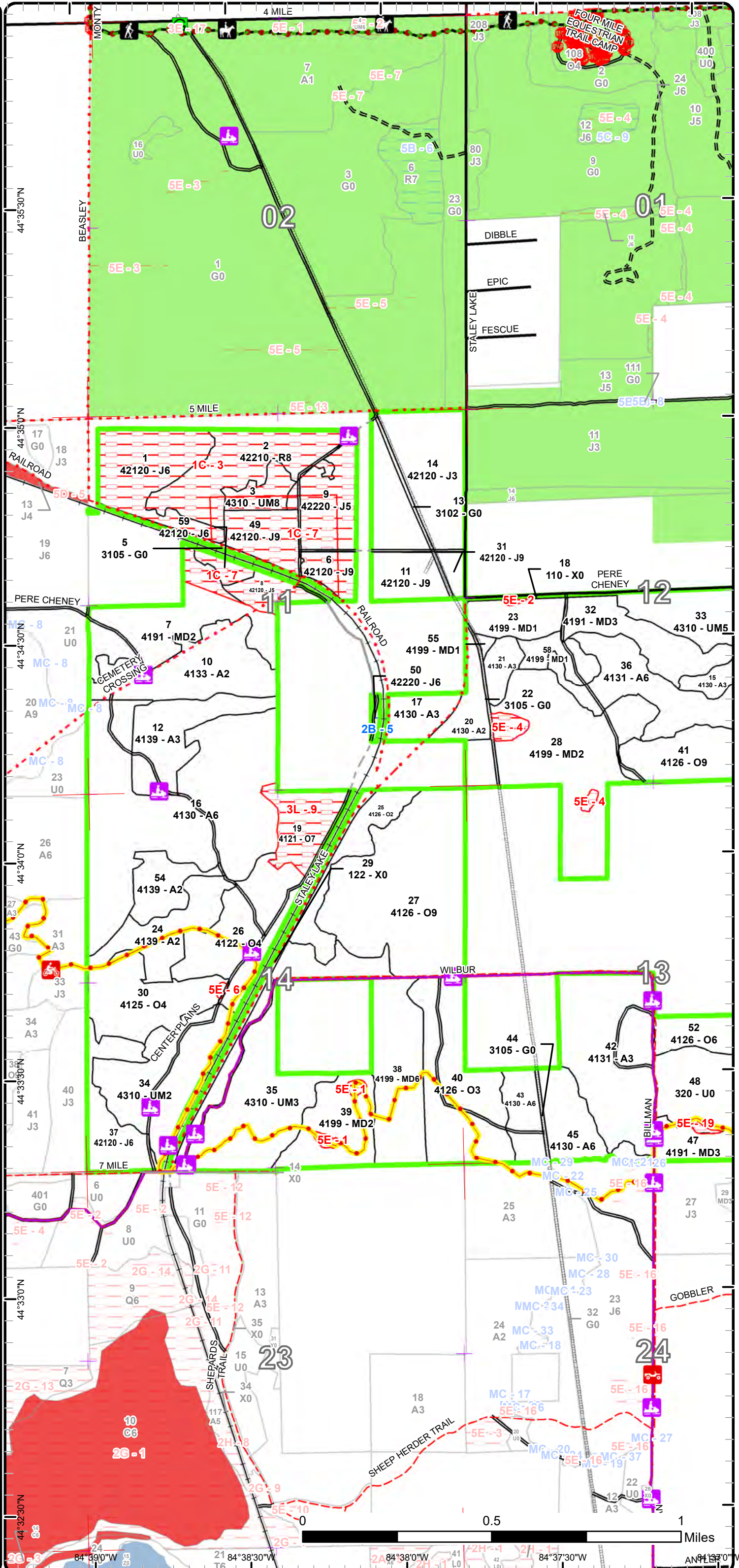
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Special Conservation Areas

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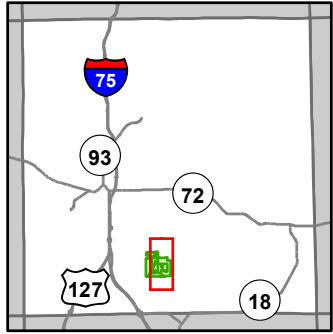


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- Available w/ Constraints
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- 1C: Other dept or div proc/practices
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Kirtland Warbler Habitat

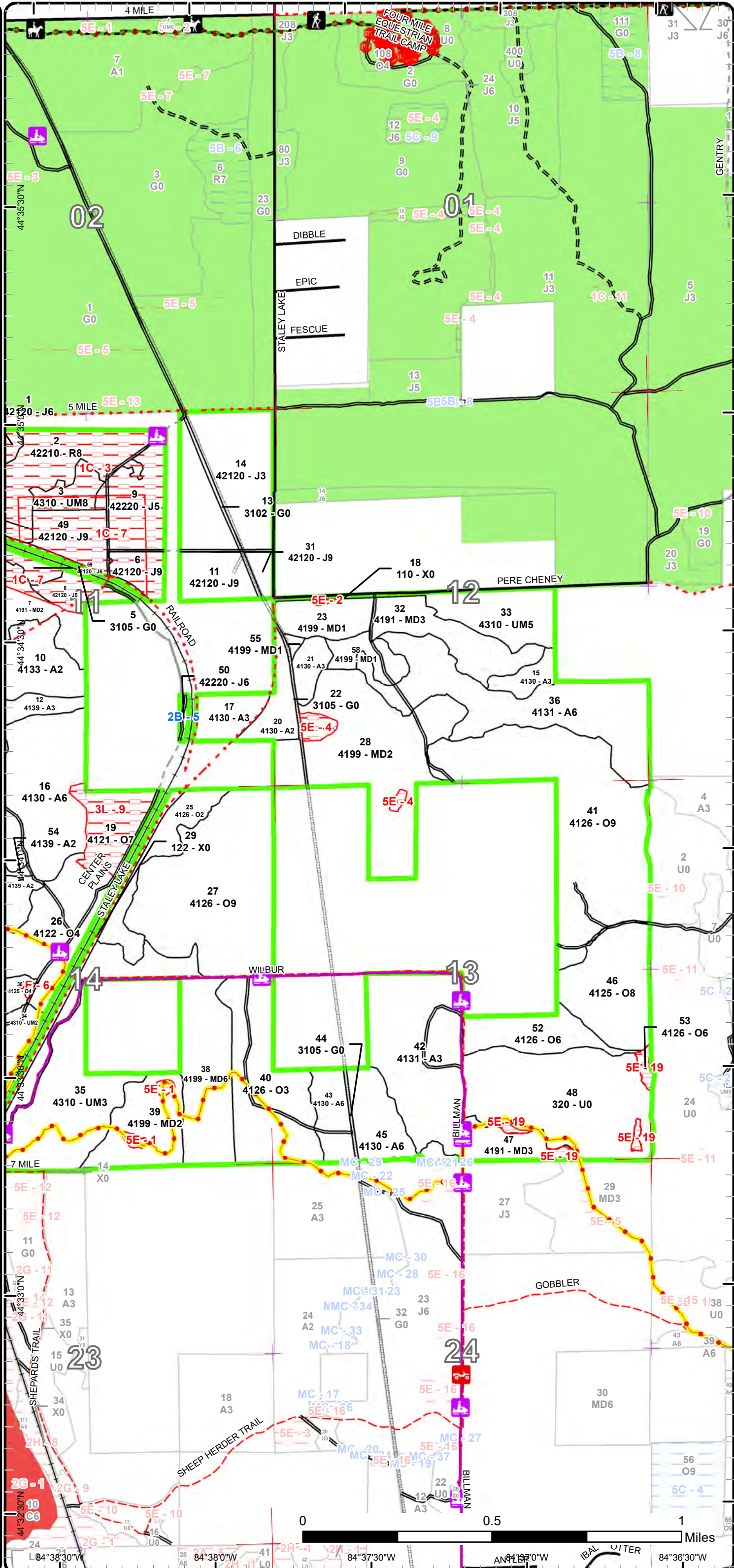


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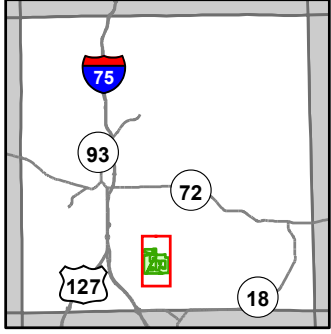


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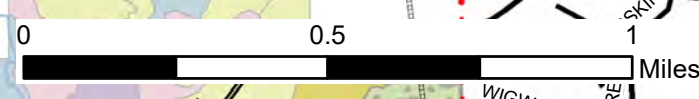
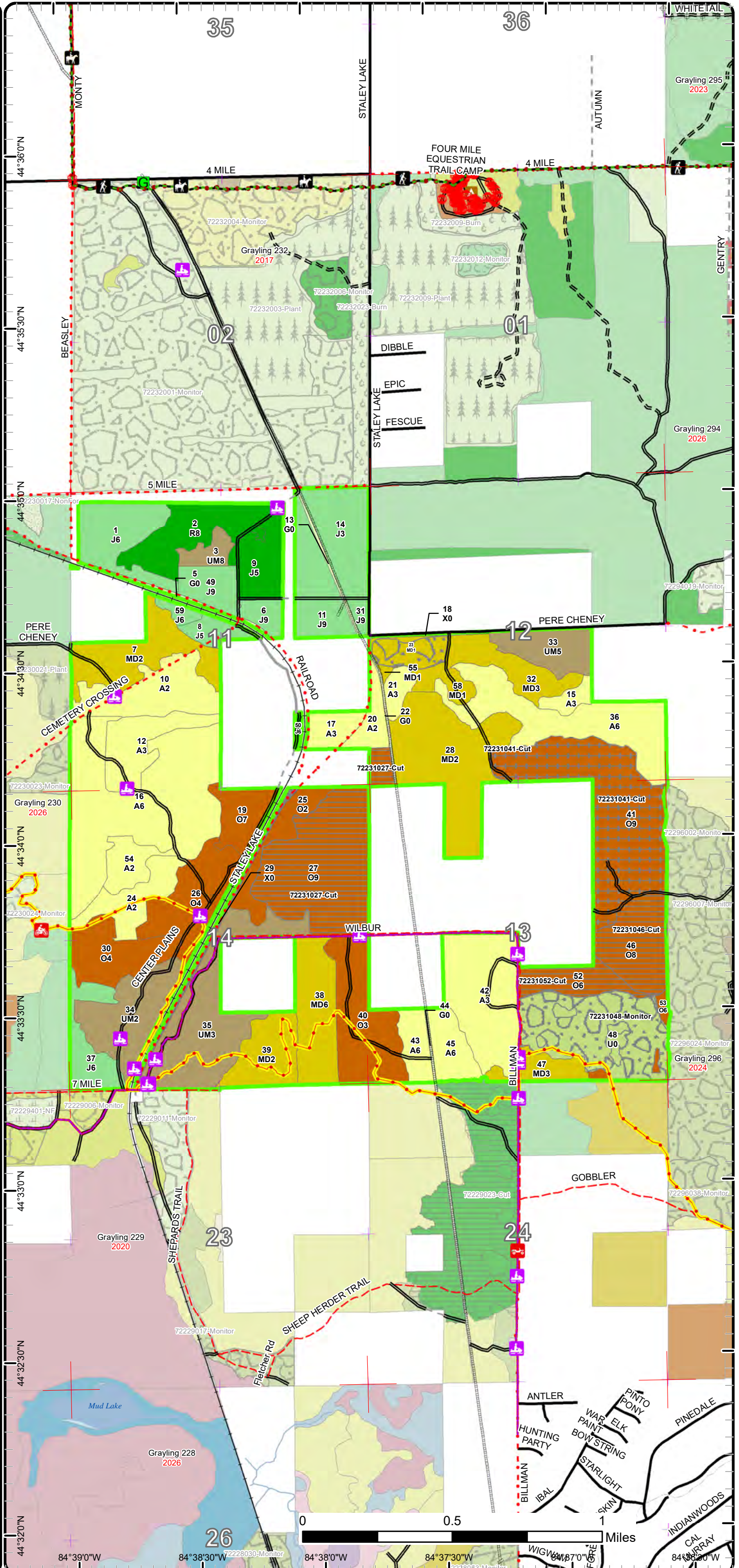


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Age Class

	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	21	156	69	200	0	0	0	0	0	0	0	0	0	0	0	0	0	446
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Jack Pine	0	0	0	0	24	57	47	15	62	0	0	0	0	0	0	0	0	0	205
Mixed Upland Deciduous	0	137	27	15	86	0	0	0	0	0	0	0	0	0	0	0	0	0	264
Oak	0	20	53	34	0	42	0	0	104	0	137	48	0	0	0	0	0	0	437
Red Pine	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	40
Upland Mixed Forest	0	0	120	0	26	0	0	0	0	0	0	0	9	0	0	0	0	0	155
Upland Shrub	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	97	178	356	118	336	99	47	15	166	0	137	88	9	0	0	0	0	0	1644



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 231

Total Compartment Acres: 1,643

Commercial Harvest - 262
 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	Overshory Removal	Salvage	Other	Total Acres
Oak		158	0	0	0	0	104	0	0		262
	Total	158	0	0	0	0	104	0	0		262

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		262	0	0	0	0	81	0	0		343
Next Step		0	0	0	0	81	158	0	0		239
	Total	262	0	0	0	81	239	0	0		582



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	Habitat Cut
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Approved Treatments:

23	72231023-Monitor	13.9	4199 - Other Mixed Upland Deciduous	Sapling Poor	7	Immature	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Well stocked stand of planted RP</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> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
27	72231027-Cut	96.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	99	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all trees >2"DBH except do not harvest red pine or white pine. Individual white oak may be marked for retention for wildlife and structural diversity. Include oak wilt and grouse log 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> A mix of oak, aspen, red maple, and pine for a moderately stocked stand.</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 /2024</p>											
41	72231041-Cut	103.9	4126 - White, Black, N. Pin Oak	Sawtimber Well	70	51-80	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all trees >5"DBH except do not harvest pine. Standard patch retention. Add oak wilt specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of oak, maple, and aspen for a fully stocked stand.</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 /2024</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
46 72231046-Cut	39.5	4125 - Black, N. Pin Oak	Sawtimber Medium	99	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all trees >2"DBH. Standard retention. Include soft oak wilt and grouse log spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak, maple, and aspen for a moderately stocked stand <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
48 72231048-Monitor	67.4	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Release <u>Treatments:</u> <u>Acceptable</u> A fully stocked stand of planted red pine. <u>Regen:</u> <u>Other Comment:</u> Percent to Treat = 100% <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
52 72231052-Cut	21.7	4126 - White, Black, N. Pin Oak	Poletimber Well	100	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all trees >2"DBH. Standard retention. Include soft oak wilt, snowmobile trail, and grouse log specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak, maple, and aspen for a moderately stocked stand. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment Acreage Proposed: 343

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 231
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions			
		With Condition	Not Available		2B	1C	3L	5E
446	446	0	0	Aspen			0	
10	6	0	4	Herbaceous Openland		4		
204	100	2	103	Jack Pine	2	103		
264	252	0	12	Mixed Upland Deciduous		5		7
437	411	0	26	Oak			21	5
40	0	0	40	Red Pine		40		
155	146	0	9	Upland Mixed Forest		9		
75	74	0	1	Upland Shrub				1
12	12	0	0	Urban				
1,643	1,447	2	195	Total Forested Acres	2	161	21	13
	88%	0%	12%	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:							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	1C: Other dept or div proc/practices	100	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See LCs							

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 231
Year of Entry: 2025

4	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: No legal access. Recommend for disposal.							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	1C: Other dept or div proc/practices	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See LCs							
9	Unavailable	3L: Other wildlife concerns	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of the mature oak between the railroad and the two-tract to the west is dead, but there are some very nice dense pockets of oak regeneration scattered throughout the stand. Stand appears to have been homesteaded, there is some jack pine, oak and aspen encroachment into the open areas, with areas of black cherry and service berry							
19	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Designated retention when stand 48 was cut in 2017.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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
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.
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	42120 - Planted Jack Pine	Poletimber Well	36.8	72	81-110	N/A	Heavy heart rot in the older (62 year old) and visible rot from core sample starting the younger 52 year old jack pine. Both age classes of jack pine are being heavily impacted by jack pine budworm. Lots of dead and down jack pine with many broken tops on the remaining standing trees.																																															
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2	42210 - Natural Red Pine	Sawtimber Medium	40.3	106	81-110	N/A	Stand is part of the Pere Cheney original plat dating back to 1874. There are areas of natural red pine ranging 90-100 years old with natural red pine regeneration averaging the mid-70's in age. Also there are pockets of planted red pine averaging in mid-50's. Interspersed between the red pine pocket is a mix of Northern pin oak, jack pine and up-land brush (black cherry). There is a very nice understory of mix oak regeneration. In addition there is evidence of jack pine being planted in which large areas failed or was salvaged. In 1971 (NWNE section 11) all jack pine 12 inches and over and all jack pine damaged in ice storm was harvested. Also 1971, (E1/2NW section 11) All jack pine ten inches and over were harvested.																																															
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3	4310 - Pine, Oak Mix	Sawtimber Medium	9.2	114	81-110	N/A	Stand is part of the Pere Cheney original plat dating back to 1874. There are areas of natural red pine ranging 90-100 years old with natural red pine regeneration averaging the mid-70's in age. Also there are pockets of planted red pine averaging in mid-50's. Interspersed between the red pine pocket is a mix of Northern pin oak, jack pine and aspen. The aspen is showing signs of heart rot and is hit with black canker. There is a very nice understory of mix oak regeneration. In addition there is evidence of jack pine being planted in which large areas failed or was salvaged. In 1971 (NWNE section 11) all jack pine 12 inches and over and all jack pine damaged in ice storm was harvested. Also 1971, (E1/2NW section 11) All jack pine ten inches and over were harvested.																																															
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5	3105 - Mixed Upland Herbaceous	Nonstocked	3.9		Unspecified	No	Road ROW. Stand has native grasses and forbs with a few disturbed areas with sedge and spotted knapweed.																																															
6	42120 - Planted Jack Pine	Sawtimber Well	9.2	53	81-110	N/A	Planted 1970 after wildfire in 1960's. Stand has some scattered mature oak trees and areas with dense oak regeneration. The stand has areas of dead and down jack pine trees with heart rot starting to occur. Stand is being heavily impacted by jackpine budworm.																																															
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7	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	44.7	38	51-80	N/A	Stand treated under TS# 72-010-85-01. All trees which were four inches or larger were harvested. Stand has dense jack pine regeneration along the skid trail, the rest of the stand is a mix of individual regen of jack pine, black cherry, quacking aspen, service berry, some hawthorn, and small open grassy areas.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
8	42120 - Planted Jack Pine	Poletimber Medium	10.0	67	81-110	N/A	Planted jack pine, stand is starting to break apart. About 1/3 of stand is already dead, with a 1/2 inch growth in the last 10 years remaining live trees. The stand does have a few pockets/areas with nice oak regeneration.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		95	Pole/Log	8	67	Black Cherry		Low	Variable	Tall Shrub
Northern Pin Oak		5	Pole/Log	8		Northern Pin Oak		Medium	5 - 10 feet	Sapling
9	42220 - Natural Jack Pine	Poletimber Medium	25.2	76	1-50	N/A	Heavy budworm activity. Many down and dead jack pine, density switches every few chains. In addition there is evidence of jack pine being planted in which some was salvaged. In 1971 (NWNE section 11) all jack pine 12 inches and over and all jack pine damaged in ice storm was harvested. Also 1971, (E1/2NW section 11). All jack pine ten inches and over were harvested.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern Pin Oak		5	Log/Pole	14		Northern Pin Oak		High	5 - 10 feet	Sapling
Jack Pine		93	Pole/Log	8	76	Serviceberry (Juneberry)		Low	Variable	Tall Shrub
Red Pine		2	Log	16		Jack Pine		Medium	< 5 feet	Sapling
						Black Cherry		Medium	Variable	Tall Shrub
						White Oak		Low	< 5 feet	Sapling
						Hawthorn (spp.)		Low	Variable	Tall Shrub
10	4133 - Aspen, Mixed Pine	Sapling Medium	41.7	37	1-50	N/A	Stand harvested under timbersale 72-010-85-01. Sale was issued 6/85 & closed 5/86. All trees 4 inches and larger were harvested. In addition in 1970 (NESW section 11). All jack pine with a stump diameter over fourteen inches were harvested. Stand is a mix of aspen clones with areas of cherry brush, red maple, and a small pocket of pole size white pine. The aspen is slowly filling in the U-type.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	3	37	Serviceberry (Juneberry)		Low	< 5 feet	Sapling
Jack Pine		15	Sapling/Pole	4	37	Black Cherry		Medium	< 5 feet	Sapling
Quaking Aspen		60	Sapling/Pole	4	37	Jack Pine		Low	< 5 feet	Sapling
Black Cherry		10	Sapling	2	37	White Pine		Low	< 5 feet	Sapling
White Pine		5	Pole/Sapling	6	45					
11	42120 - Planted Jack Pine	Sawtimber Well	15.0	53	81-110	N/A	Planted 1970 after wildfire in 1960's. Stand has some scattered mature oak trees and areas with dense oak regeneration. The stand has areas of dead and down jack pine trees with heart rot starting to occur. Stand is being heavily impacted by jackpine budworm.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		97	Pole	8	53	Northern Pin Oak		Medium	Variable	Sapling
Northern Pin Oak		3	Pole	8		Black Cherry		Medium	Variable	Tall Shrub
						Jack Pine	Low	Variable	Sapling	
12	4139 - Aspen, Mixed Deciduous	Sapling Well	30.1	16	1-50	N/A	Some patches of upland shrub in the more open areas. Stand treated under TS # 72-040-05-01, and completed in 2009. All trees except for oak under 4 inches was cut.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black Cherry		2	Sapling	1	16					
White Pine		2	Sapling/Pole	4						
Black/Red (Hybrid) Oak		3	Pole	5	45					
Northern Pin Oak		11	Sapling	1	16					
Bigtooth Aspen		45	Sapling	1	16					
White Oak		2	Sapling	1	16					
Red Maple		35	Sapling	1	16					
13	3102 - Grass	Nonstocked	2.9		Unspecified	No				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
14	42120 - Planted Jack Pine	Sapling Well	57.0	40	51-80	N/A	Planted jack pine stand, with some scattered oak and black cherry sapling. East side of stand borders Staley Lake Road and the north end border 5 Mile road. A pipeline traverses through the stand. There is a strip on the west side that is a little less dense.	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern Pin Oak		5	Sapling/Pole	4				
Jack Pine		95	Sapling/Pole	4	40			
15	4130 - Aspen	Sapling Well	7.5	16	Immature	N/A	Stand treated under TS # 72-040-05-01. All trees except for oak under 4 inches was cut. Nice aspen regen along road and south portion of stand the rest is mostly black cherry regeneration. No visible oak regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		85	Sapling	1	16			
Jack Pine		2	Sapling	1	16			
Black Cherry		5	Sapling	1	16			
Black/Red (Hybrid) Oak		2	Pole	6	45			
Red Maple		6	Sapling	1	16			
16	4130 - Aspen	Poletimber Well	124.6	38	81-110	N/A	Nice stand of pole sized big tooth aspen. Some patches of mixed upland deciduous. Stand treated under TS# 72-011-85-01, all trees four inches and larger were harvested. Snowmobile trail runs thru the stand. The oak sutmps sprouts and staying up with the aspen and red maple regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		20	Pole	5				
Bigtooth Aspen		70	Pole	6	38			
Black/Red (Hybrid) Oak		10	Pole	5				
Sub-Canopy Species		Density	Avg. Height	Size				
Witch Hazel		Medium	Variable	Tall Shrub				
17	4130 - Aspen	Sapling Well	12.7	7	Immature	N/A	Stand has naturally regenerated to an aspen stand with minor components of oak, cherry, and jack pine. Stand harvested in fall of 2016, FTP C72-811 submitted for planting. M.O. was changed from planted JP to planted RP (with site prep and herbicide application as needed) by variance on January 19, 2018. Stand is mostly Jack pine pole size stand with some reaching log size (10 inches at DBH). The jack pine is breaking up, lots of broken top showing heart rot, dead and down jack pine. There is currently a heavy infestation of jackpine budworm . The stand has some scattered large diameter oak mostly on the west side, with pockets of red maple regeneration again on the west side of the railroad tracks. Heavy heart-rot and black canker in the aspen. Treatment was dropped through variance process; approved 4/21/2020.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		80	Sapling	1	7			
Jack Pine		10	Sapling	1	7			
Black Cherry		5	Sapling	1	7			
Black/Red (Hybrid) Oak		5	Sapling	1	7			
18	110 - Low Intensity Urban	Nonstocked	2.1	0	Unspecified	No	Pere Cheney and Staley Lake roads	
19	4121 - Oak, Aspen	Sawtimber Poor	20.9	108	1-50	N/A	Most of the mature oak between the railroad and the two-tract to the west is dead, but there are some very nice dense pockets of oak regeneration scattered throughout the stand. Stand appears to have been homesteaded, there is some jack pine, oak and aspen encroachment ito the open areas, with areas of black cherry and service berry	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern Pin Oak		60	Log/Pole	14	108			
Jack Pine		10	Pole/Log	8				
Quaking Aspen		30	Pole/Log	8				
Sub-Canopy Species		Density	Avg. Height	Size				
Northern Pin Oak		High	5 - 10 feet	Sapling				
Black Cherry		Medium	5 - 10 feet	Tall Shrub				
Red Maple		Medium	5 - 10 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
20	4130 - Aspen	Sapling Medium	12.5	16	Immature	N/A	Well stocked aspen sapling.																													
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21	4130 - Aspen	Sapling Well	7.9	7	Immature	N/A	Fully stocked aspen sapling stand. Stand contains a lowland inclusion.																													
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22	3105 - Mixed Upland Herbaceous	Nonstocked	2.0		Unspecified	No	ROW																													
23	4199 - Other Mixed Upland Deciduous	Sapling Poor	15.8	7	Immature	N/A	Natural regeneration looks good. Stump sprout oak is above deer browse. Patches of aspen and black cherry. Was cut in 2016 (#040-15). This north half was to be planted to JP. M.O. was changed to planted RP (with site prep & herbicide application as needed) by variance in 2018. Was site-prep sprayed in June & trenched in July 2019 (C72-811). Planted 882 TPA PRT RP in May 2021. Oct 2021 Yr 1 survey: 807 TPA, 94% FTG, 4.3% mortality. BC is the primary competitor.																													
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24	4139 - Aspen, Mixed Deciduous	Sapling Medium	25.8	17	Immature	N/A	well stocked aspen stand with pockets of mixed upland deciduous. Stand was treated last YOE TS # 72-038-05-01.																													
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25	4126 - White, Black, N. Pin Oak	Sapling Medium	19.5	7	Immature	N/A	Decent acceptable regen throughout. The only understocked area is the old landing. Harvested in fall of 2016 under contract 72-038-15-01. Narrow strip of planted jack pine along east side of Staley Lake Road.																													
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26	4122 - Oak, Pine	Poletimber Poor	42.1	44	1-50	N/A	<p>Fairly open stand of low quality oak and jackpine. Upland brush dominates openings. Stand of Oak/pine mixed of two age classes. Pole size oak scattered with pole size red pine. Undrestory is medium stocking of oak salplings. Stand was harvested in 1997-1999 under contract 72-017-95-01 all trees 4 inches and larger were harvested.</p>																																																																
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27	4126 - White, Black, N. Pin Oak	Sawtimber Well	96.6	99	81-110	N/A	<p>Quality regen throughout the stand. Some overstory decline observed. Rolling to steep terrain.</p> <p>In 1960 in the south half of this stand all jack pine 10 inches and over was harvested, all dead oak and live oak trees 12 inches and larger were harvested. Also in 1964-65 all merchantable dead oak was cut. Starting from the south the stand is mostly mature white oak with a few small pockets of planted jack pine. The understory is all white oak regen 3-10 feet tall, but then the stand switches to most red maple regeneration with a white oak overstory. At the northern end of the stand you start picking up more mixed oak (hybrid). Stand also has a few bigtooth aspen trees scattered throughout the stand.</p>																																																																
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28	4199 - Other Mixed Upland Deciduous	Sapling Medium	79.5	7	Immature	N/A	<p>Harvested summer of 2016 under contract 72-040-15-01. Planted jackpine with dense pockets of red maple regeneration. Found an old fire plow line, records indicate wild fire occurred in the late 60's. Heavy heart rot and black canker in the aspen, a lot down and dead jack pine scattered throughout the stand.</p>																																																																
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29	122 - Road/Parking Lot	Nonstocked	9.5		Unspecified	No																																																																	
30	4125 - Black, N. Pin Oak	Poletimber Poor	34.3	26	1-50	N/A	<p>Some good oak regen accompanied by cherry and service berry brush. Pockets of oak regeneration (about 3"-4"DBH) were left from the harvest. Harvested February of 2017 under 72-038-15-01. This will become a two aged stand when trees regenerate from the harvest.</p> <p>Mixed stand of Oak, Aspen, and Jack pine with mixed ages. The stand has pockets of dense oak regen open area with just service berry and scattered throughout very mature oak and jack pine trees. In 1964 all merchantable dead oak was harvested, and in 1967 all merchantable jackpine 12" and over at a six inch stump height and all other dead jackpine was harvested. Based on our timbersale records and aerial photos this was the last harvest to occur in this stand. The addition BA swings are (20,70,100 and 80).</p>																																																																
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31	42120 - Planted Jack Pine	Sawtimber Well	4.2	53	81-110	N/A	Planted 1970 after wildfire in 1960's. Stand has some scattered mature oak trees and areas with dense oak regeneration. The stand has areas of dead and down jack pine trees with heart rot starting to occur. Stand is being heavily impacted by jackpine budworm.																																
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32	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	26.5	16	Immature	N/A	Stand is primarily an open mix of oak, cherry, and jack pine with a few aspen clone patches. Canopy closure is variable. Stand treated under TS # 72-040-05-01. All trees except for oak under 4 inches was cut. Nice aspen regen along road and south portion of stand the rest is mostly black cherry regeneration. No visible oak regeneration.																																
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33	4310 - Pine, Oak Mix	Poletimber Medium	25.5	37	1-50	N/A	Stand treated under TS # 72-010-86-01. All trees two inches and larger at a foot above ground were harvested. Found an old fire plow line. Good oak regeneration from stump sprouts. Most of the aspen regeneration is located in the east half of stand.																																
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34	4310 - Pine, Oak Mix	Sapling Medium	45.2	17	Immature	N/A	Stand is filling in nicely. Stand was treated under timbersale # 72-038-05-01 this unit was finished in the fall of 2006 the sale was closed 9/19/08. All trees 2 inches and larger were harvested except for oak trees 4 inches and less in diameter. Stand is a nice mix of regeneration going from heavy aspen to sparse aspen, to red maple/black cherry with oak stump sprouts. Some of the pole size oak has died.																																
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35	4310 - Pine, Oak Mix	Sapling Well	75.3	15	Immature	N/A	Nice young stand of aspen, oak, and jack pine. MCCCT trail traverses southern end. Stand treated under TS # 72-038-05-01. All trees except for oak under 4 inches was cut.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
36	4131 - Aspen, Oak	Poletimber Well	69.4	27	1-50	N/A	Stand harvested under TS # 72-013-95-01. All trees that were greater than 4 inches except for oak 10 inches or larger were harvested. In 1961 in the SWSE all jack pine trees marked with yellow paint were cut. In 1960, SESE all jack pine 10 inches and larger were cut, and some of the oak was cut in 70's.																																																				
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37	42120 - Planted Jack Pine	Poletimber Well	23.8	36	51-80	N/A	Stand was treated under TS # 72-001-86-01 (No Arrest Block). Planted jack pine 1987, sapling size over all. Small aspen inclusion on the northern finger. Stand extends into the compartment to the west. South end of stand borders 7 Mile Road, southeast part of the stand borders snowmobile trail																																																				
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38	4199 - Other Mixed Upland Deciduous	Poletimber Well	41.3	36	51-80	N/A	Nice stand of oak poles mixed with red maple and aspen saplings. Stand was final harvested in 1987, timbersale # 72-030-86-01 (Michcon Line Block) all trees that were 2 inches or more were harvested. An ORV trail, and two-track runs thru the stand.																																																				
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39	4199 - Other Mixed Upland Deciduous	Sapling Medium	30.1	6	Immature	N/A	Variable density regeneration of red maple, Aspen, and oak. The majority of the stand is fully stocked mixed upland deciduous. Harvested in January/February 2017 under 72-038-15-01, two retention islands left. Old comments: A mixed stand of oak, aspen and red maple. The terrain rolling with more aspen on top of ridges and in pockets the red maple is throughout the stand. A MCCT trail runs thru the stand. In 1960 all jack pine 10 inches and over was harvested, and all dead oak and live oak trees 12 inches and larger were harvested. Also in 1964-65 all merchantable dead oak was cut.																																																				
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40	4126 - White, Black, N. Pin Oak	Sapling Well	53.2	15	Immature	N/A	Most of the residual log sized oak are dead or declining. Some areas of extremely dense oak regen. Stand was treated under timbersale # 72-038-05-01 and closed 9/19/08. All trees 2 inches and larger were harvested except for oak trees 4 inches and less in diameter. Stand now has a component of pole timber standing with the majority of it being white oak (4-7" DBH) scattered throughout stand. North side borders Wilbur Road and a portion of the east side borders private property. Stand is a nice mix of regeneration going from heavy aspen to sparse aspen, to red maple/black cherry with oak stump sprouts.																																																				
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41	4126 - White, Black, N. Pin Oak	Sawtimber Well	104.0	70	51-80	N/A	Shelterwood harvest completed April 2019, Sixteenth Oak, 72-039-15.																																																	
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42	4131 - Aspen, Oak	Sapling Well	64.4	15	Immature	N/A	Nice mix of oak, red maple, and aspen. Stand is fully stocked. Stand was treated under timbersale # 72-038-05-01 and closed 9/19/08. All trees 2 inches and larger were harvested except for oak trees 4 inches and less in diameter. Stand is a nice mix of regeneration going from heavy aspen to sparse aspen, to red maple/black cherry with oak stump sprouts.																																																	
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43	4130 - Aspen	Poletimber Well	14.2	36	51-80	N/A	Stand was final harvested in 1987 under contract 72-030-86-01 Michcon Line Block. An ORV trail traverse through south corner of the stand. Aspen/Red Maple stand with some scattered Oak throughout stand. East side of stand borders Michcon Gas Pipeleing. Two-track traverse through stand. East side more Quaking Aspen																																																	
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44	3105 - Mixed Upland Herbaceous	Nonstocked	1.3		Unspecified	No																																																		
45	4130 - Aspen	Poletimber Well	19.3	36	51-80	N/A	Stand was final harvested in 1987, timbersale # 72-030-86-01 (Michcon Line Block) all trees 2 inches and up were harvested.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
46	4125 - Black, N. Pin Oak	Sawtimber Medium	39.5	99	51-80	N/A	Some white pine regen showing up in the north and east.																																									
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47	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	14.7	27	Immature	N/A	Stand harvested under TS # 72-014-95-01. All trees four inches or more in diameter were harvested. ORV trail treaverses through stand. Oak/jack pine3 sapling stand with some scattered pole size trees. West side of stand borders Billman Road.																																									
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48	320 - Upland Shrub	Nonstocked	75.1	0	Unspecified	4211 - Planted Red Pine	Declining mixed oak stand was final harvested in 2017 (#039-15), except island retention & 4 acres in 4 islands where the overstory was removed but the oak regen protected. Trenched in 2018 (C72-848). Site-prep sprayed by FRD skidder August 2020. Planted 967 TPA PRT RP in May 2021. Oct 2021 Yr 1 survey: 935 TPA, 95% FTG, 4.1% mortality. Primary competition is oak, with aspen in the NW. Sept 2021 PUER found overall success, with a few skips, and RM resprouting common.																																									
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49	42120 - Planted Jack Pine	Sawtimber Well	16.9	53	51-80	N/A	Stand has some inclusions of native grasses and forbs with a few disturbed areas with sedge and spotted knapweed.																																									
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50	42220 - Natural Jack Pine	Poletimber Well	1.7	58	81-110	N/A	This was previously part of stand 17, was not cut during the harvest.																																									
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52	4126 - White, Black, N. Pin Oak	Poletimber Well	21.7	100	81-110	N/A	This stand was split off from the original stand 48 and not treated. Stand 48 comments: The stand has a south slope aspect, with rolling terrain with short slopes the stand is mostly mixed oak with little to no red maple visible along my route. The oak is poor quality throughout with a few trees making it to log size diameter. There are lots of white oak seedling 1-3 feet tall. The stand is currently being defoliated by gypsy moth (at least 80% of the stand is 100% defoliated)																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
53	4126 - White, Black, N. Pin Oak	Poletimber Well	4.8	100	81-110	N/A	This stand has three of the four retention islands left when stand 48 was cut in 2017. Stand 48 comments: The stand has a south slope aspect, with rolling terrain with short slopes the stand is mostly mixed oak with little to no red maple visible along my route. The oak is poor quality throughout with a few trees making it to log size diameter. There are lots of white oak seedling 1-3 feet tall. The stand is currently being defoliated by gypsy moth (at least 80% of the stand is 100% defoliated)	
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Black/Red (Hybrid) Oak		63	Log/Pole	10	100	White Pine		
White Oak		35	Log/Pole	10		White Oak		
						Density	Avg. Height	Size
						Low	< 5 feet	Sapling
						Medium	5 - 10 feet	Sapling
						Low	5 - 10 feet	Sapling
54	4139 - Aspen, Mixed Deciduous	Sapling Medium	15.8	17	Immature	N/A	well stocked aspen stand with pockets of mixed upland deciduous. Stand was treated last YOE TS # 72-038-05-01.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Cherry		20	Sapling	1	17			
Red Maple		25	Sapling	1	17			
Black/Red (Hybrid) Oak		10	Sapling	1	17			
Bigtooth Aspen		45	Sapling	1	17			
55	4199 - Other Mixed Upland Deciduous	Sapling Poor	1.1	7	Immature	N/A	Natural regeneration looks good. Stump sprout oak is above deer browse. Patches of aspen and black cherry. Was cut in 2016 (#040-15). This north half was to be planted to JP. M.O. was changed to planted RP (with site prep & herbicide application as needed) by variance in 2018. Was site-prep sprayed in June & trenched in July 2019 (C72-811). Planted 882 TPA PRT RP in May 2021. Oct 2021 Yr 1 survey: 807 TPA, 94% FTG, 4.3% mortality. BC is the primary competitor.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		10	Sapling	1	7			
Red Maple		20	Sapling	1	7			
Northern Pin Oak		40	Sapling	1	7			
Black Cherry		20	Sapling	1	7			
Jack Pine		10	Sapling	1	7			
58	4199 - Other Mixed Upland Deciduous	Sapling Poor	10.5	7	Immature	N/A	Natural regeneration looks good. Stump sprout oak is above deer browse. Patches of aspen and black cherry. Was cut in 2016 (#040-15). This north half was to be planted to JP. M.O. was changed to planted RP (with site prep & herbicide application as needed) by variance in 2018. Was site-prep sprayed in June & trenched in July 2019 (C72-811). Planted 882 TPA PRT RP in May 2021. Oct 2021 Yr 1 survey: 807 TPA, 94% FTG, 4.3% mortality. BC is the primary competitor.	
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Red Maple		20	Sapling	1	7			
Northern Pin Oak		40	Sapling	1	7			
Black Cherry		20	Sapling	1	7			
59	42120 - Planted Jack Pine	Poletimber Well	4.6	65	51-80	N/A	Planted jack pine, based on core sample planted mid-50s.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		98	Pole/Log	8	65			
Red Pine		2	Log	14				