



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72234

Entry Year 2022

Acreage: 1,903

County Crawford

Management Area: Kirtland's Warbler

Revision Date: 2020-06-09

Stand Examiner: Scott McClarren

Legal Description:

Sections 23 - 26, 33 & 34, T26N-R03W, Crawford County

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. In addition, to maintain a healthy habitat for the endangered species *Dendroica kirtlandii* (Kirtland's Warbler), taking into account warbler management plan directives, species diversity, and visual management.

Soil and topography:

The area is level to gently rolling terrain. Grayling and Graycalm-Grayling sands are the predominant soils throughout this compartment. Grayling Sand is characterized as being excessively drained and is common on moraines and outwash plains. Erosion and windthrow probability are slight. Graycalm-Grayling sands are characterized as somewhat excessively drained and again are common on moraines and outwash plains. The possibility of erosion and windthrow are slight on this soil series as well.

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

Private lands are dispersed evenly throughout this compartment with state land. Much of the land in this compartment was obtained from the forest service and/or was tax reverted.

Unique Natural Features:

This compartment contains what was once historically large expanses of jack pine influenced greatly by fire activity. Today, forest management in this area has been carried out to mimic this activity with an aim to improve and enhance habitat for the endangered Kirtland Warbler in the area. Staley Lake is also unique in that it is a kettle lake with very steep topography leading to it on all sides.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

This compartment is part of the Staley Lake Kirtland Warbler management area and is an HCVA. There is potential for dry prairie plants in grassy openings to include pine barren's species of Hill's thistle, rough fescue, Alleghany plum and pale agoseris. There also is potential for pine barren's species including dusted skipper, grizzled skipper and red-legged spittlebug to be present in these openings. Warbler species will be found in the young jack pine stands that abound in this region.

Watershed and Fisheries Considerations:

Staley Lake is within this compartment. It has a very small watershed and water levels have historically fluctuated quite a bit. It is currently at a low level with many areas of exposed reeds and other wetland vegetation.

Wildlife Habitat Considerations:

A great deal of wildlife utilize all areas of this compartment. The major consideration is for Kirtland's Warbler management and extensive fisheries management however numerous species of wildlife were observed while conducting field work and should be considered in all aspects of management of this compartment.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. An active sand/gravel pit is in the SW/4 of Section 27, less than one mile from the compartment. Sand & gravel potential appears to be good in the compartment. The closest oil & gas production, past or present, is more than six miles away. No test wells have been drilled within the compartment and there is no current leasing activity. Oil & gas potential within the compartment is considered low at this time. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to

explore or develop their mineral rights.

Vehicle Access:

Access to this compartment is from Staley Lake Rd and 4 Mile Roads. Each of these are county roads and are in fair condition. Numerous 2-tracks provide access to the remainder of the compartment.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Hunting, camping and bird watching make up the majority of recreational activities in this area. No formal state managed facilities are present within this compartment boundary. The Shore-to-Shore riding/hiking trail touches the compartment in the southwestern corner along Monty Lane.

Fire Protection:

Jack pine is the dominant tree species within this compartment and therefore fire activity is a concern. Access is good to the compartment for fire suppression activities. Fire suppression in this area is carried out by the State of Michigan wildland fire program.

Additional Compartment Information:

The following reports from the Inventory are attached:

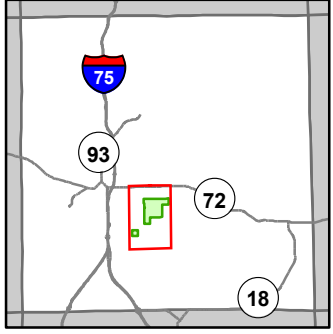
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

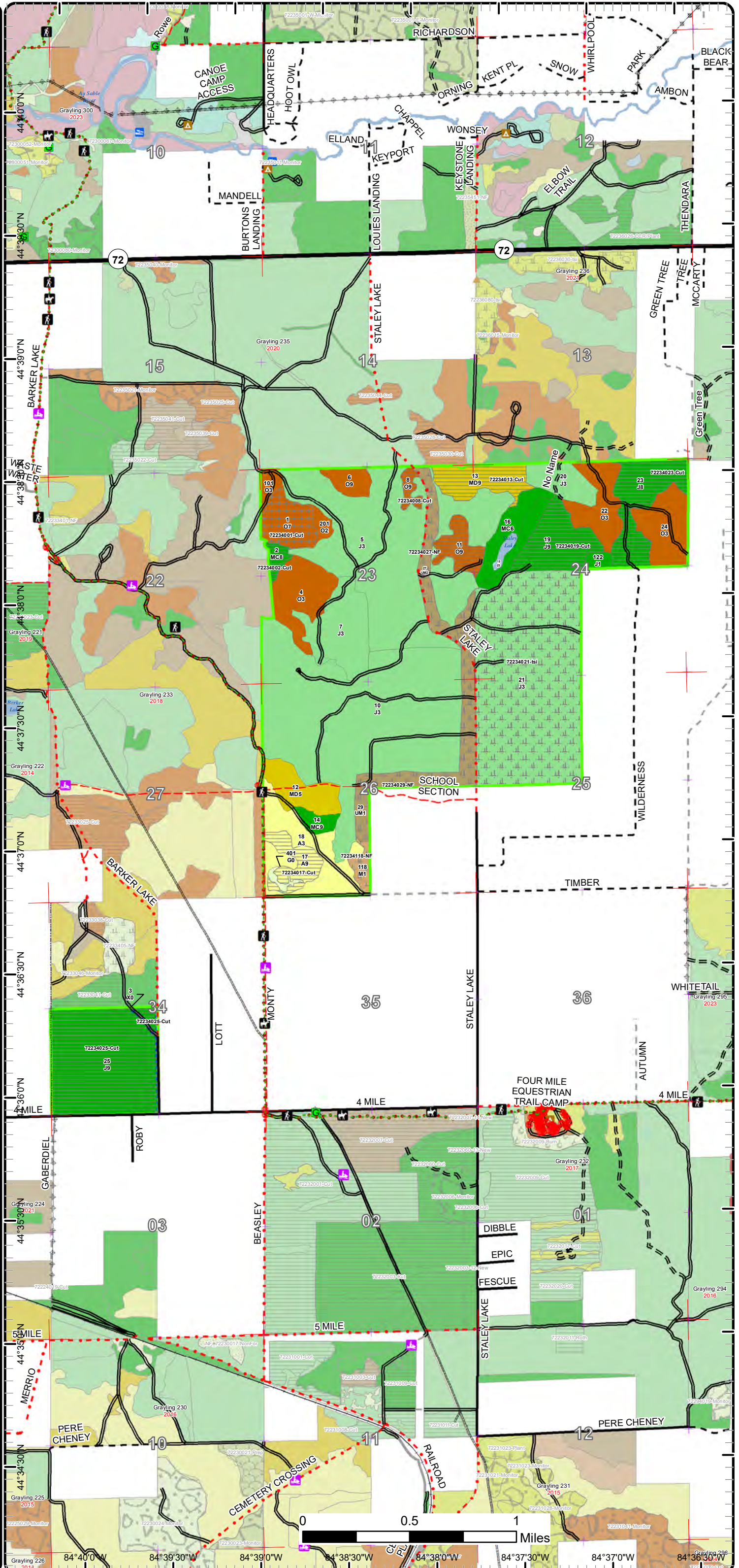
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 234
 T26N, R03W, Sec. 23-26, 34
 County: Crawford
 Unit: Grayling
 Mgmt Area: Kirtland's Warbler
 YOE: 2022
 Acres: 1902.9 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 5/19/2021
 Map Phase: Post-Review

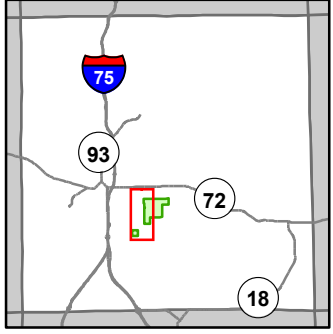


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Lake/Pond
- Lakes and Rivers
- Berms
- Gate
- Campground
- Sign
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water

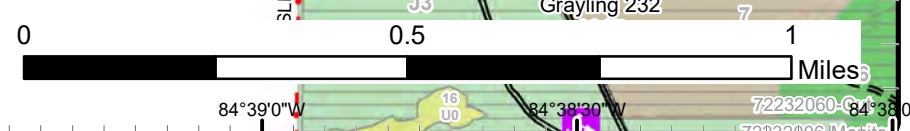
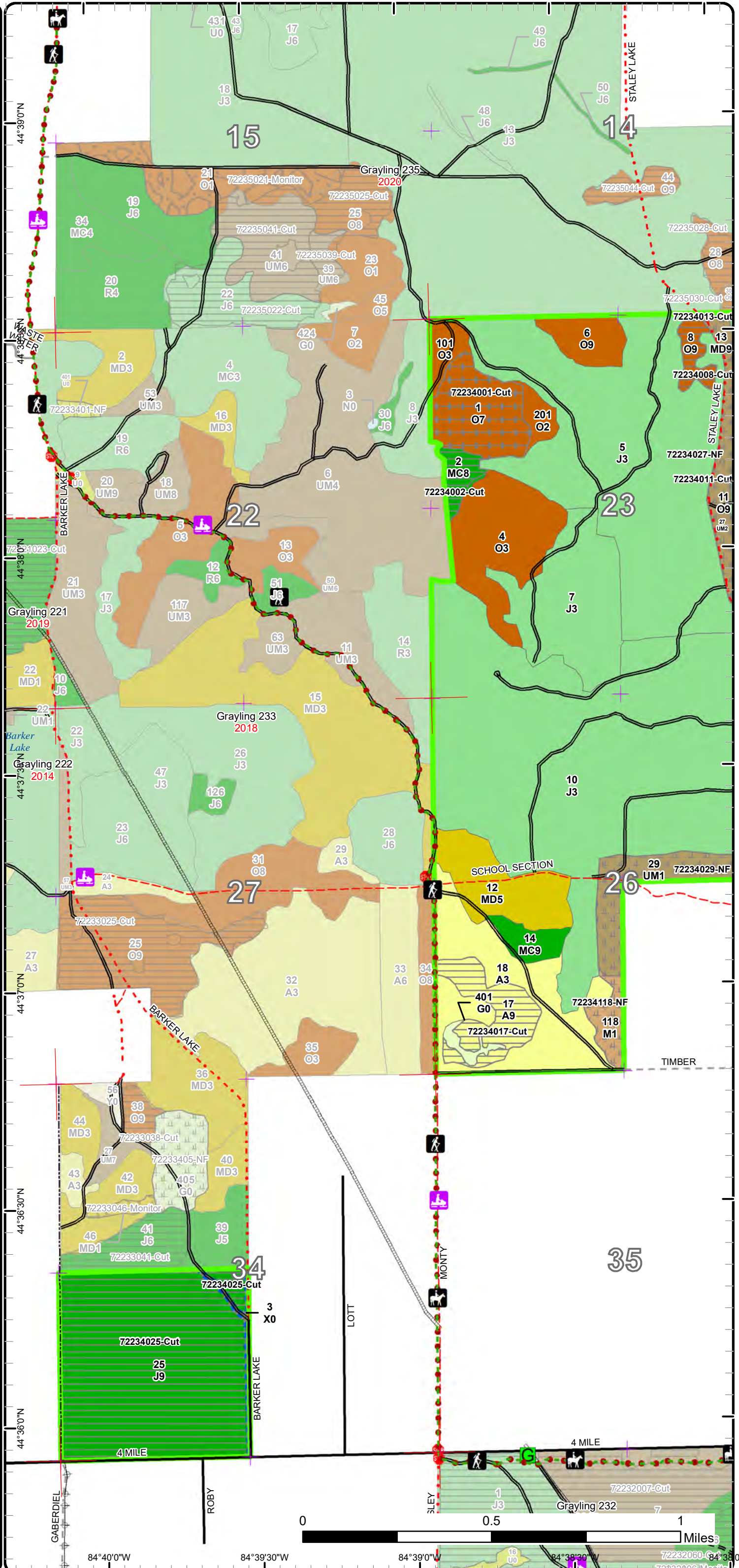


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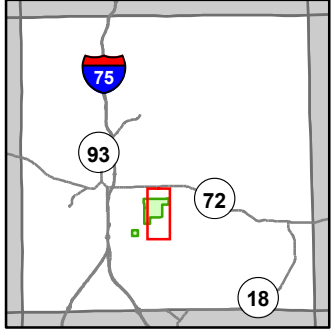


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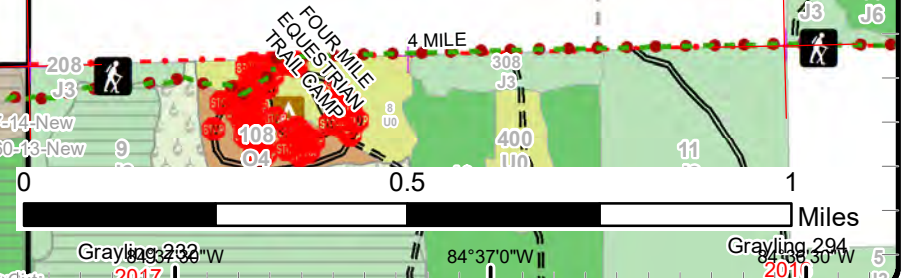
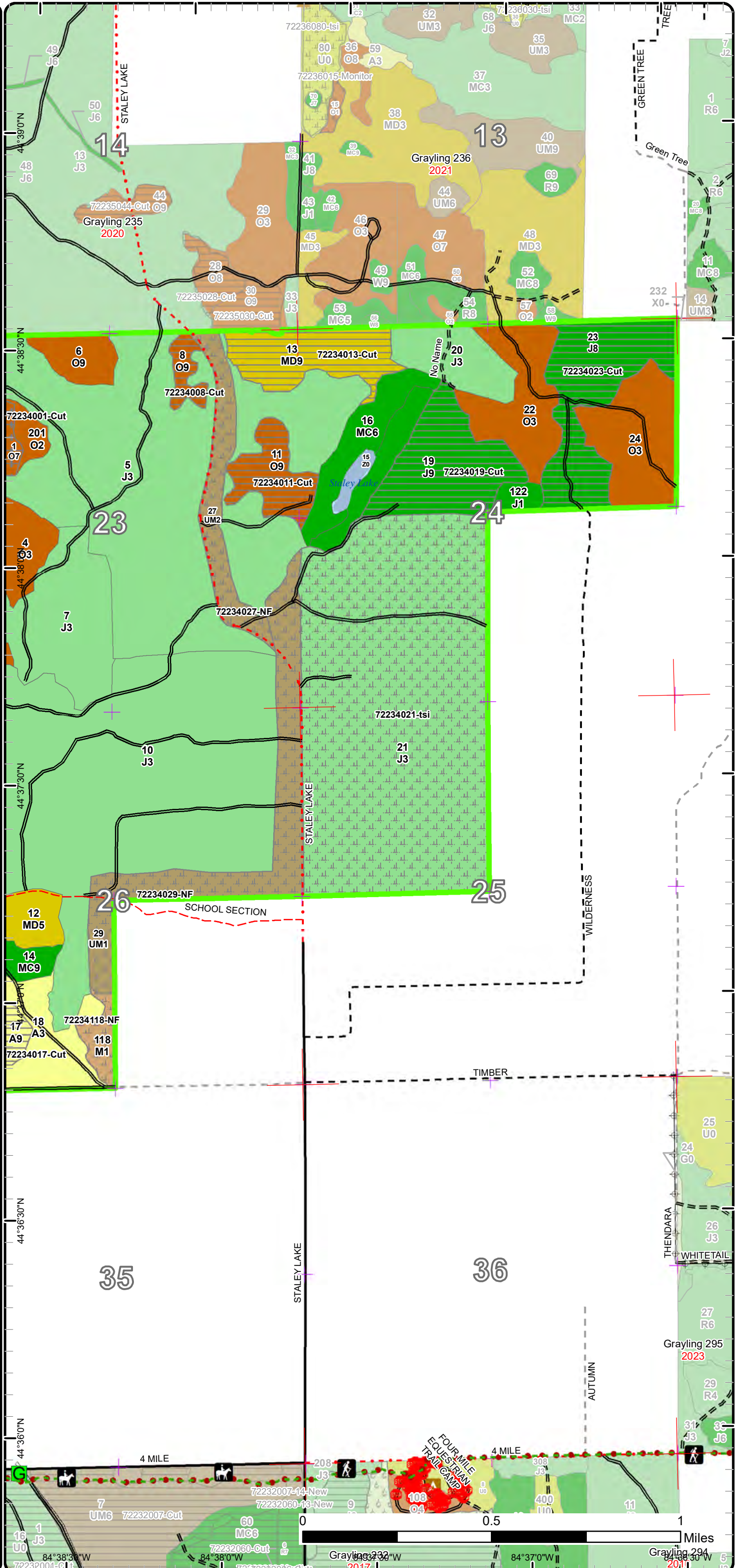


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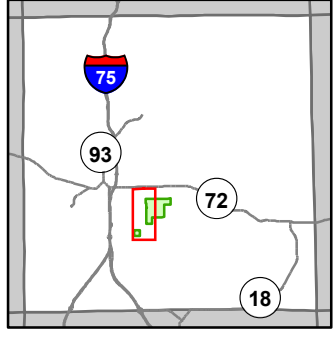


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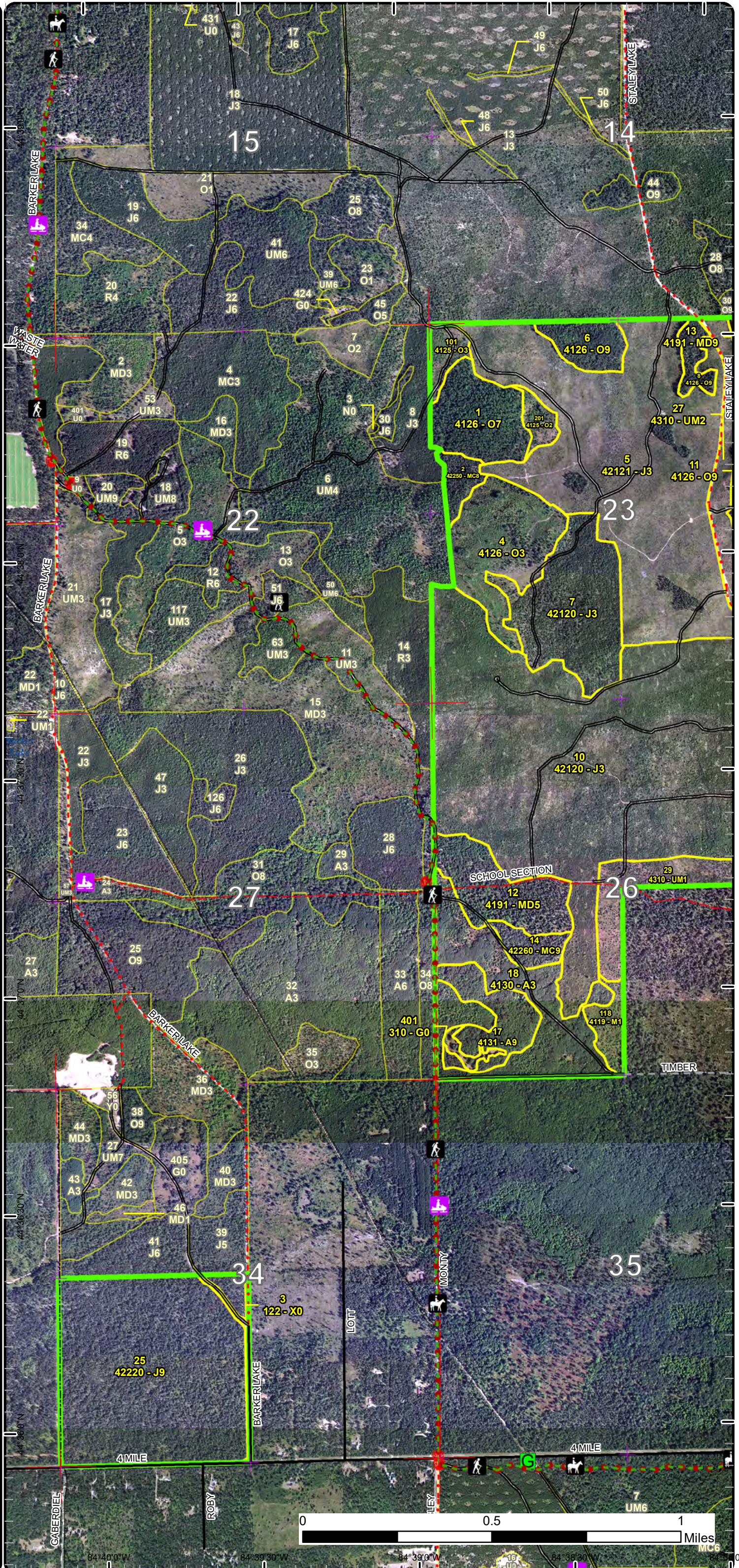


Stand Boundary Map

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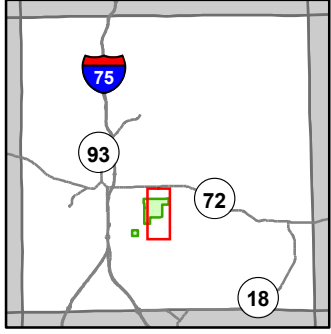


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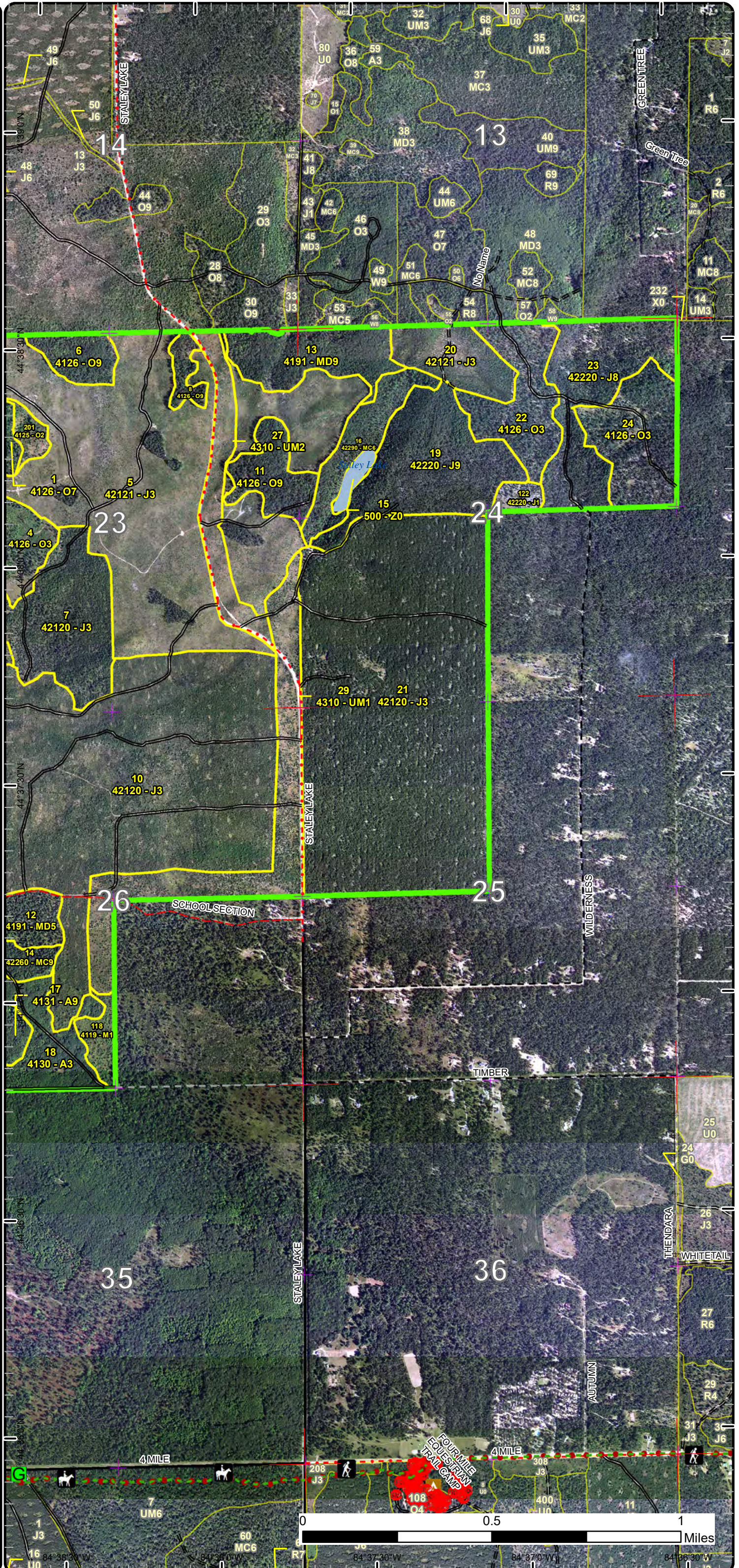


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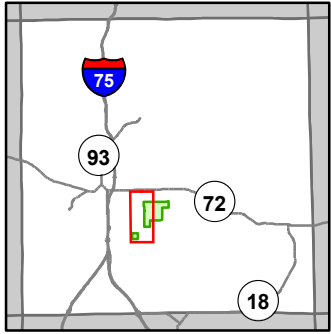


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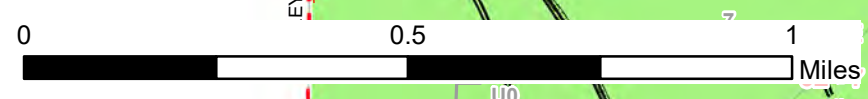
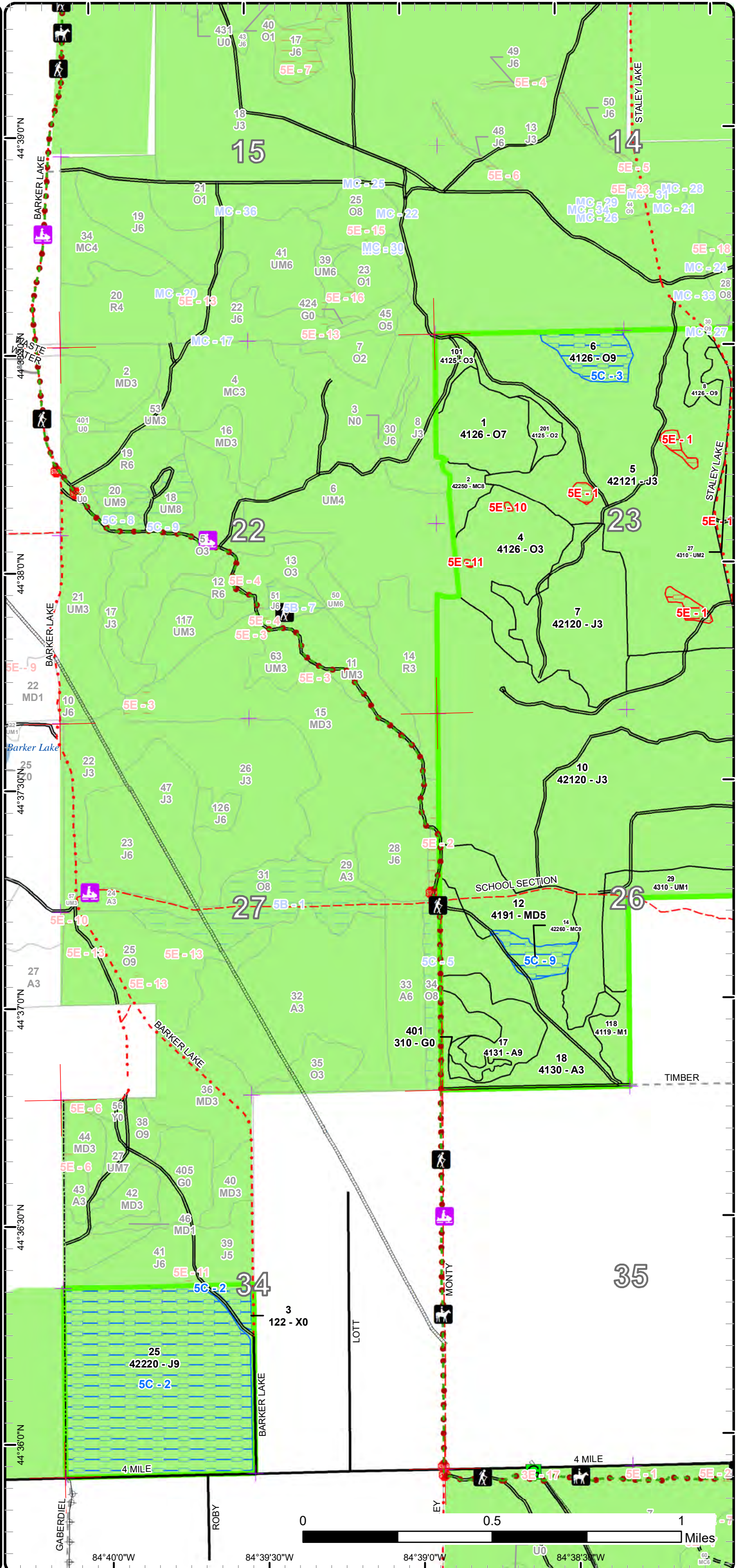


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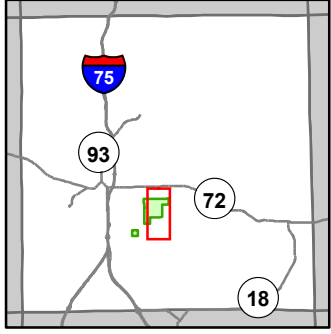
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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat



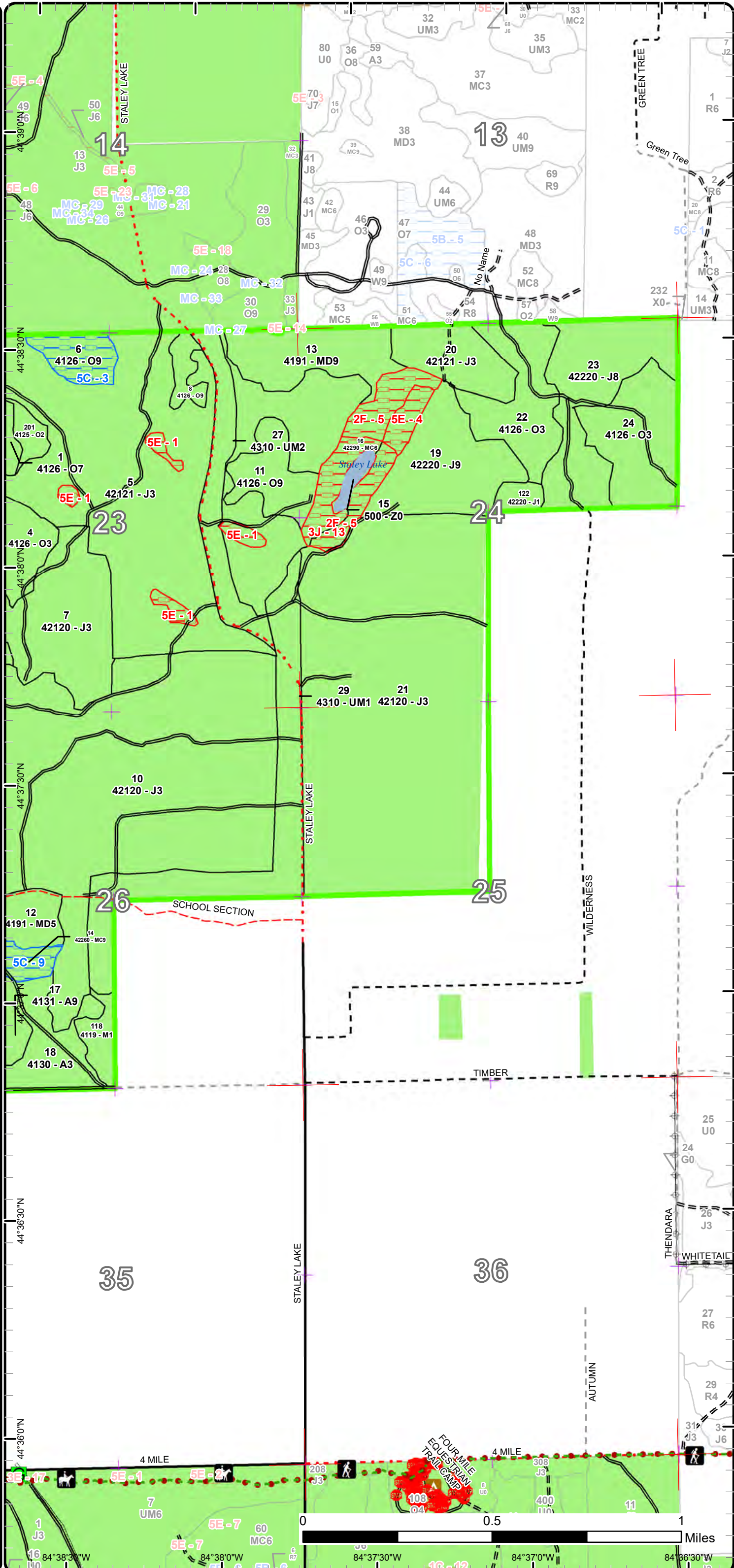
84°40'0"W 84°39'30"W 84°39'0"W 84°38'30"W

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- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat



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+	Unnever-Aged	Total
Aspen	0	0	65	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	90
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	284	395	372	0	0	156	61	0	69	0	0	0	0	0	0	0	0	1336
Mixed Upland Deciduous	0	0	0	36	0	0	0	0	0	0	0	38	0	0	0	0	0	0	74
Natural Mixed Pines	0	0	0	0	0	26	0	0	19	0	0	0	0	0	0	0	0	0	45
Northern Hardwood	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Oak	0	50	102	0	0	0	0	0	0	0	58	24	0	0	0	0	0	0	234
Upland Mixed Forest	0	31	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	11	365	645	408	0	26	181	61	19	69	58	62	0	0	0	0	0	0	1903



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 234

Total Compartment Acres: 1,903

Commercial Harvest - 249
 Harvests with Site Condition - 156
 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	25	0	0	0	0	0	0	0	0	25
Jack Pine	269	0	0	0	0	0	0	0	0	269
Mixed Upland Deciduous	38	0	0	0	0	0	0	0	0	38
Natural Mixed Pines	8	0	0	0	0	0	0	0	0	8
Oak	32	0	0	0	0	34	0	0	0	65
Total	371	0	0	0	0	34	0	0	0	405

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	405	0	0	0	0	0	309	114	0	828
Next Step	0	572	208	0	114	208	849	52	0	2003
Total	405	572	208	0	114	208	849	361	114	2830



Stand Name	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:

1	72234001-Cut	33.5	4126 - White, Black, N. Pin Oak	Sawtimber Poor	93	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable stems. Protect oak regen. Standard island retention. KW timing restrictions. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Oak is already established through most of stand with pockets of maple. Any pine is also acceptable. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
2	72234002-Cut	8.2	42250 - Pine, Oak	Sawtimber Medium	70	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Remove all stems greater than 2" DBH. No retention due to small stand size. KW timing restrictions. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mixed upland deciduous objective with 25-35% oak. Maple, aspen, and pine are also accepted species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
8	72234008-Cut	7.9	4126 - White, Black, N. Pin Oak	Sawtimber Well	96	51-80	Harvest	Clearcut	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Clearcut no retention due to small stand size. Add KW timing restrictions. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak is expected to regenerate, but any species combination will be considered acceptable. Low or moderate stocking will also be accepted. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											



Standard

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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11	72234011-Cut	23.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	101	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
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Prescription Clearcut with retention. Protect section corner in south with retention island. Also put retention on steep northeast slope with KW below to
Specs: keep equipment out of planted jack pine. Add KW timing restrictions

Next Step Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Oak is expected, but will also accept pine and aspen.
Regen:

Other Put retention around old fire tower foundation. Close the unmapped forest road where it enters stand 11 to stop the illegal ORV traffic that is
Comment: causing significant erosion into Staley Lake north east of stand.

Site Condition

Proposed Start Date: 10/1 /2021

13	72234013-Cut	38.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	101	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clearcut with standard island retention. Add KW timing restrictions.
Specs:

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

Acceptable Mixed upland deciduous objective with 25-35% oak. Any combination of oak, pine, aspen, and maple is acceptable.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

17	72234017-Cut	24.9	4131 - Aspen, Oak	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with standard island retention. Leave the open grown x-log oaks with wide crowns for mast. Add shrub and grouse specs. Add trail
Specs: protection specs for Shore to Shore Trail.

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

Acceptable Aspen objective with oak and pine also being acceptable species.
Regen:

Other Can use non-maintained opening (stand 401) as landing if desired.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

19	72234019-Cut	51.8	42220 - Natural Jack Pine	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with retention. Retention on steep inoperable west slope (as drawn). Add low stump spec to facilitate planting.
Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand

Acceptable Fully stocked red pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21	72234021-tsi	308.7	42120 - Planted Jack Pine	Sapling Well	26	1-50	Other	Other	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Precommercial thinning experiment with Michigan State University (MSU) to evaluate the growth response of jack pine. The preparation and administration for this project will be completed by MSU. The work will be contracted out either for precommercial thinning by hand in 2021, with every 3rd tree in each row being removed, or by mechanical thinning in 2020, with every 3rd row being removed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
23	72234023-Cut	60.7	42220 - Natural Jack Pine	Sawtimber Medium	66	51-80	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard island 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 Regen:</u> Oak/jack pine mix is desired. Some poorly stocked areas are expected and acceptable due to topography and lack of openings in compartment. Any species composition is acceptable. 30% oak to call oak, pine MO successful.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
25	72234025-Cut	156.1	42220 - Natural Jack Pine	Sawtimber Well	59	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> KW clearcut with retention. Place retention in vortex strips. Leave tops and limbs for cones. Scarify for natural regen. Add low stump specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial -</p> <p><u>Treatments:</u> Site Prep; Planting, KW Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Jack pine is the desired species. Must meet minimum stocking for KW habitat. If natural regen fails, site prep as needed and plant jack pine.</p> <p><u>Other Comment:</u> Put a 30 meter buffer around foundation(s) in southwest corner.</p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
27	72234027-NF	31.2	4310 - Pine, Oak Mix	Sapling Medium	8	Immature	NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Periodic fuelbreak maintenance as needed to reduce woody vegetation along private property and Staley Lake Rd. This may be achieved through prescribed burning or mechanical means depending on funding and equipment availability.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Burn, Fuel Break</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> none</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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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29	72234029-NF	72.5	4310 - Pine, Oak Mix	Sapling Poor	17	Immature	NonForestMgt	Other - Specify	3102 - Grass	No
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Prescription Periodic fuelbreak maintenance as needed to reduce woody vegetation along private property and Staley Lake Rd. This may be achieved through prescribed burning or mechanical means depending on funding and equipment availability.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory); Burn, Fuel Break
Treatments:

Acceptable Regen: none

Other Comment: Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2021

118	72234118-NF	10.2	4119 - Mixed Northern Hardwoods	Sapling Poor	19	Immature	NonForestMgt	Other - Specify	3102 - Grass	No
-----	-------------	------	---------------------------------	--------------	----	----------	--------------	-----------------	--------------	----

Prescription Periodic fuelbreak maintenance as needed to reduce woody vegetation along private property and Staley Lake Rd. This may be achieved through prescribed burning or mechanical means depending on funding and equipment availability.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory); Burn, Fuel Break
Treatments:

Acceptable Regen: none

Other Comment: Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2021

Total Treatment Acreage Proposed: 827.5

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 234
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions				
		With Condition			5C	2F	3J	5E	
90	90	0		0	Aspen				
3	3	0		0	Herbaceous Openland				
1336	1153	156		27	Jack Pine	156		10	17
74	74	0		0	Mixed Upland Deciduous				
45	9	10		26	Natural Mixed Pines	10	13	13	
10	10	0		0	Northern Hardwood				
232	216	16		0	Oak	16			0
104	104	0		0	Upland Mixed Forest				0
4	4	0		0	Urban				
4	4	0		0	Water				
1,903	1,668	181		53	Total Forested Acres	181	13	23	17
	88%	10%		3%	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	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention islands left in 2013 harvest #044-10.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	156	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 234
Year of Entry: 2022

4	Unavailable	5E: Long-Term Retention	7	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 19.							
5	Unavailable	2F: Too steep	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	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
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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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
1	4126 - White, Black, N. Pin Oak	Sawtimber Poor	33.5	93	1-50	N/A	BA is around 50 in most places (a little heavier towards the east. Full oak regen in understory. Changed stand age from 113 to 92 years old.																																																	
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2	42250 - Pine, Oak	Sawtimber Medium	8.6	70	51-80	N/A	Jack pine and pin oak are declining rapidly.																																																	
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3	122 - Road/Parking Lot	Nonstocked	4.0	0		No																																																		
4	4126 - White, Black, N. Pin Oak	Sapling Well	50.1	8	1-50	N/A	Changed management objective from natural red pine, mixed deciduous to oak through 2022 compartment review. Fully stocked oak stand. No red pine regen found. Scattered red pine logs and a couple acres of R5 in the east. Changed from 2 aged to even aged (it resembles a clearcut outside of the R5 inclusion).																																																	
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5	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	284.2	7	Immature	N/A	Healthy jack pine plantation with a pretty heavy oak component.Old comments- Staley Lake KW Management Unit. Was final harvested by 2013 (#044-10), trenched to KW weave pattern in 2013 and planted to JP in 2014 (W72-725). Passed Year 1 regen survey with 1203 JP & 1729 NPO per acre. Passed Yr 3 regen survey with 1076 JP & 1891 Oak per acre. FTP is complete.																																																	
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6	4126 - White, Black, N. Pin Oak	Sawtimber Well	15.6	96	51-80	N/A	White oak is healthy, pin oak and jack pine are starting to decline. Jack pine dominates southeast. Somewhat steep but, operable slopes surrounding most of stand. Pockets of high to full density oak in understory in most places and blueberry throughout. Stand is overall log sized but has a lot of pole sized pockets throughout.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
7	42120 - Planted Jack Pine	Sapling Well	62.8	21	1-50	N/A	Old comments-planted jp with some rp mixed in. oak stump sprouts scattered throughout-heavily browsed																																																								
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8	4126 - White, Black, N. Pin Oak	Sawtimber Well	7.9	96	51-80	N/A	Small oak stand with pine component follows a gentle ridge. Bracken/blueberry through out with scattered oak regen mostly that gets a little denser towards the east. Oak and jack pine mortality occurring. Changed stand age from 110 to 95. Red pine cored at 65 years old and pin oak cored at 95. Looks to be around same age as stand 6. Old comments- low quality oak stand within jp stand, near staley lake rd. oak is of low quality, red and jack pine are present within stand in fair numbers. oak regen in understory is heavily browsed and is of poor quality. some red and jack regeneration.																																																								
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10	42120 - Planted Jack Pine	Sapling Well	360.6	13	Immature	N/A	KW management block. Was final harvested by 2004 (#001-02). Was then trenched and planted to JP in 2008 (90%) and 2009 (10%), under W72-511, excluding a fuelbreak along the southeast and east edge (now stand 29). Passed Year 3 regen survey with 977 JP, 168 NPO, 15 BC & 14 aspen trees per acre. Canopy records were updated based on treatment report and 2016 imagery, not site visit.																																																								
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11	4126 - White, Black, N. Pin Oak	Sawtimber Well	23.6	101	81-110	N/A	Hard stand to age. Cored 120 year old white oak, an 80 year old jack pine, and 90 year old pin oak so kept age at 100. White oak still looks healthy but, pin oak and jack pine are declining. High to medium density oak through most of understory. BA a little lower towards the south. Old comments- oak stand with jack/red/white pine present in descent numbers. oak regen is fair but browsed. some areas are heavier to jp within stand. looks to be dependent on topo/aspect. red pine component is more notable in eastern portion of stand, on slope to staley lake. stand fazes to jp stand on western side, boundary is variable.																																																								
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12	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	35.8	27	1-50	N/A	Cutting records indicates stand was harvested in 1994 under "Gnatty Pine Sale" #72-043-92. All jack pine and oak under 6" DBH were protected. Changed stand from 2-aged to even aged. Some larger oaks and jp left from harvest but makes up less than 20% of canopy cover. Patchy composition with openings. More open grown pole timber in east side of stand. Old Comments: Mixed stand, oak savanna looking w/ pine throughout. oak, jp and wp regen present in open areas. oak, jp and wp make up majority of overstory, poor quality.																																																								
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13	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	38.2	101	81-110	N/A	Hilly stand difficult to age. Changed stand age from 110 to 100 to reflect adjacent stand 11. Cored a 125 year old white oak and an 80 year old red pine. oak stand w/ pine present in moderate numbers. aspen clones also present, localized in western portions of stand. stand is on a ridge. overall quality is fair. oak in understory is fairly dense but is browsed heavily and not much is recruiting. some wp, mostly in clumps. inclusion heavier to pine in central portion of stand-valley is included with this																																																									
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14	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	9.8	76	111-140	N/A	East side of stand is oak/aspen dominated with white pine mixed in. West side is white pine getting log sized. Scattered x-log red pine and oaks. Cored one of the larger red pines at 125 year old. Not quite enough of the larger trees to delineate second age class. Heavily browsed maple in understory. Aspen and oak declining.																																																									
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15	500 - Water	Nonstocked	4.4			No	Old comments- Stand comprises Staley Lake. Kidney shaped body of water, approximately 5 acres in size. Gradient leading to lake is very steep on both sides of the lake. Looks to be significant wildlife use in this area.																																																									
16	42290 - Natural Mixed Pine	Poletimber Well	26.3	49	81-110	N/A	Stand is located on steep east facing slope above staley lake. Most JP has died. Numerous legacy pines scattred through stand but mostly pole size 48 year old WP now. Also contains saw size red pine and oak that is probably close to 100 years old judging by surrounding oak.Old comments- white pine stand with significant oak component. oak is older, white pine is variable in age-some larger individuals, especially in north. jp fazes in near border with jp stand to the west. wo dominant in some pockets. rp heavier in north w/ some larger individuals present. may have been a plantation planted under oak by the usfs.																																																									
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17	4131 - Aspen, Oak	Sawtimber Well	24.9	56	81-110	N/A	Changed stand age from 35 to 55 years old. A few x-log open grown oak and serveberry found mostly around openings. South side of stand is oak dominated.																																																									
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18	4130 - Aspen	Sapling Well	65.4	19	Immature	N/A	3-10' white oak understory is high to full through most of stand with a few pockets of dense red maple underneath aspen. Some aspen in spots getting into pole class, but sapling overall. Old comments- Aspen stand, regenerating well w/ rm and wo present in descent numbers. fair quality aspen, doesn't look like the best site for aspen judging from the surrounding stands.																																																				
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19	42220 - Natural Jack Pine	Sawtimber Well	68.5	80	81-110	N/A	Natural jack pine seeing significant mortality. West side of stand drops down to Staley Lake. Northern portion of stand is a mix of oak and planted scotch pine, red pine, and spruce. A couple red pine getting that legacy look observed. Old comments- fairly uniform jp stand with pockets of oak inclusions. jp seems fairly healthy. oak consists mainly of wo, growing ok. understory oak is heavily browsed. interestingly, stand also includes 20-30 rows of a scotch/red pine/norway spruce plantation in northern portion, maybe 2 acres. oak is interspersed in this area. wp inclusion in north as well, along border of oak stand.																																																				
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20	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	28.3	15	Immature	N/A	According to records, stand was planted to jack pine in 2006. Some portions towards exterior were planted through oak regen. Cut with Staley Lake Road Hawk's Nest (#72-012-03) in 2006. Old Comment: Stand swapped from Forested to Non-Forested. jp plantation, approx 2' tall. oak stump sprouts evenly scattered throughout stand. jp growing well, will be a fully stocked jp plantation next yoe.																																																				
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21	42120 - Planted Jack Pine	Sapling Well	308.7	26	1-50	N/A	Jack pine is mostly sub-merch with scattered 1 stick trees mostly in south half where spacing is not as tight. Also, some 1 stick jack along weeve openings. South half also has a higher oak component. planted kw jp stand growing well. oaks stump sprouts throughout with occasional rp present.																																																				
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22	4126 - White, Black, N. Pin Oak	Sapling Well	41.0	18	1-50	N/A	Records indicated stand was contract marked to a residual BA of 40 sqft/ac. Stand was harvested in 2003 under Staley Lake Oak 2 (#72-020-02). Looks more like a seed tree cut rather than a shelterwood. Most areas are closer to 10 BA. Oak regen is 10-20 feet tall in most places. Changed stand type from O8 to O3 with scattered white oak residuals as super canopy trees. Old Comment: wo stand that was shelterwood harvested last yoe. oak residual is fair quality, oak regen is doing very well. majority is stump sprout origin but single stems are present in good numbers. wp is also in understory in low numbers. jp pockets of regen present in understory as well.																																																				
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23	42220 - Natural Jack Pine	Sawtimber Medium	60.7	66	51-80	N/A	Stand has some rolling topography with a few large dry depressions in north half. Oak sub-canopy is on the lower side of medium. Portions of stand are open underneath with blueberry and lichen. Old comments- mixed stand with jp dominant. oak and red pine present in descent numbers . jp is relatively small dbh, growing well tho.																																							
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24	4126 - White, Black, N. Pin Oak	Sapling Well	45.3	18	1-50	N/A	Records indicate stand was contract marked to a residual BA of 40 sqft/ac. Stand was harvested in 2003 under Staley Lake Oak 2 (#72-020-02). Stand looks more like a seed tree cut rather than shelterwood and BA is around 10 on average (mostly white oak). Changed stand from O8 to O3 with residual white oak super canopy scattered throughout. Old Comment: similar to stand 20-oak stand shelterwood harvested last yoe. oak growing well. regen doing good, recruiting to sapling size, both stump sprouts and single stems.																																							
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25	42220 - Natural Jack Pine	Sawtimber Well	156.1	59	51-80	N/A	Stand is around 75% canopy closure in most places with very open understory (bracken fern/blueberry). Changed stand age from 50 to 58. Stand has a younger population of 41 year old pole sized jack pine through middle, but isn't worth delineating. Scattered super canopy red and white pine. Old comments- jp stand of multiple age classes. red pine present as super-canopy. oaks scattered throughout. large wp present along with some pole/saps, low numbers/scattered.																																							
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27	4310 - Pine, Oak Mix	Sapling Medium	31.2	8	Immature	N/A	6-3-2020 SM inventory: Fuelbreak filling in with oak and jack pine. Old comments- Was final harvested in 2013 (#044-10), but this strip of the larger KW harvest was left unplanted for a fuelbreak.																																							
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29	4310 - Pine, Oak Mix	Sapling Poor	72.5	17	Immature	N/A	3-20-2020 SM inventory: Fuel break is filling into J3 in places and open with scattered cherry brush/oak/jp in others (visible from imagery). KW management area. Was final harvested along with stand 10 by 2004 (#001-02), cutting stems 2"+ DBH, but was left unplanted to serve as a fuelbreak. Canopy records updated from treatment report and 2016 imagery, not site visit.																																							
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101	4125 - Black, N. Pin Oak	Sapling Well	8.8	15	Immature	N/A	Stand was split from parent stand 1. Cut with Staley Lake Road Hawk's Nest (#72-012-03) in 2006.																																			
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<p>Old Comment (stand 1): New stand added. oak stand with a small amount of rp scattered. stand was shelterwood/thinned harvested last yoe and oak regen is responding fairly well. browse is heavy in spots. rm makes up descent portions of understory in places. northern/eastern edge of stand was final harvested because it was previously a jack pine/oak stand. this portion of stand is regenerating to oak so it was included with this stand. separated from original stand2.</p>																																										
118	4119 - Mixed Northern Hardwoods	Sapling Poor	10.2	19	Immature	N/A	3-12-2020 SM inventory: Stand was split from original stand 18. Poorly stocked with patches of maple/cherry and scattered oak.																																			
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122	42220 - Natural Jack Pine	Sapling Poor	6.0	18	1-50	N/A	New stand split from parent stand 22. Harvested in 2003 under Staley Lake Oak 2 (#72-020-02). Mostly open with some scattered log size pin oaks (super canopy) and pockets of sapling size jack pine. Blueberry, lichen, and grass through open areas.																																			
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201	4125 - Black, N. Pin Oak	Sapling Medium	6.6	15	Immature	N/A	Stand was split from parent stand 1. Cut with Staley Lake Road Hawk's Nest (#72-012-03) in 2006. More open around edges.																																			
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Black Cherry	5	Sapling	2																																							
Jack Pine	10	Sapling	2																																							
<p>Old Comment (stand 1): New stand added. oak stand with a small amount of rp scattered. stand was shelterwood/thinned harvested last yoe and oak regen is responding fairly well. browse is heavy in spots. rm makes up descent portions of understory in places. northern/eastern edge of stand was final harvested because it was previously a jack pine/oak stand. this portion of stand is regenerating to oak so it was included with this stand. separated from original stand2.</p>																																										
401	310 - Herbaceous Openland	Nonstocked	3.3	0		No	Opening split from parent stand 17. Open grown oak and service berry scattered through stand. Good wildlife stand.																																			