



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72227

Entry Year 2022

Acreage: 1,517

County Crawford

Management Area: AuSable Outwash

Revision Date: 2020-06-09

Stand Examiner: Scott McClarren

Legal Description:

Beaver Creek Township, T25N 03W, Sections: 19, 20, 21, 29, 30, 31, 32, 33, 34, 35, and 36

Identified Planning Goals:

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

Soil and topography:

Flat to gently rolling terrain. Soils vary with areas of Grayling sands, Graycalm Sand and areas of Tawas.

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

State ownership is fractionalized, parcels are scattered over 11 square mile sections. Private parcels vary from large tracts to small parcels and from seasonal to year round residences. Some parcels of state-owned land are only accessible by crossing private ownership. Note, the old Beaver Creek Township Transfer station was located in section 20. This former transfer site is dominated by open gravel and covered with knapweed and is in need of some type of restoration (see stand 15).

Unique Natural Features:

The state threatened rough fescue (*Festuca scabrella*), prairie or pale agoseris (*Agoseris gluaca*), Hill's thistle (*Cirsium hillii*), and Alleghany plum (*Prunus alleghaniensis* var. *davisii*) are species of special concern with potential to appear in the compartment. These plant species are most often found in grassy openings and open areas of jack pine. There is potential for several animals of concern in this compartment: goshawk, Massasauga rattle snake, secretive locust, dusted skipper, grizzled skipper, and the red-legged spittle bug.

Currently there are no known Ecological Reference Areas in this compartment.

Archeological, Historical, and Cultural Features:

The North Higgins Lake CCC Camp and multiple home stead foundations are located in the compartment. A wetland mitigation pond is found section 34 (see the MDOT report located in the compartment file for more details).

Special Management Designations or Considerations:

Beaver Creek is a designated "Natural River". Streams with this designation are considered High Conservation Value Areas (HCVA).

Watershed and Fisheries Considerations:

Beaver Creek flows through sections 29, 30, 34, 35, and 36.

Wildlife Habitat Considerations:

This compartment contains multiple maintained wildlife openings. Expand aspen types as much as possible.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. Three active sand/gravel pits are within two miles of the compartment. Sand & gravel potential appears to be good in the compartment, but there are some wetland areas that could inhibit development in places. The closest oil & gas production, past or present, is the Beaver Creek Field to the west. 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:

All state parcels are accessible from county roads except for the acreage in section 20 west of I-75 and land located in sections 29 and 30.

Survey Needs:

Need Section 21: 1/16th corner (9). Section 34: 3 corners: H12 and property corners within the NESW and SWSE. Section 36: 1/16th corner (4).

Recreational Facilities and Opportunities:

A portion of The Beaver Creek MCCCT Trail is located in section 19. Hunting, fishing, and dispersed recreation occur throughout the area. West Higgins ORV Route and Snowmobile Trail 487 is in development to forest roads adjacent to 7 Mile Road and Old 27.

Fire Protection:

Sufficient access exists for fire protection. Potential for wildfires are high in this compartment with the large amount of private interface. The Roscommon Field Office provides initial response for fire protection in this area.

Additional Compartment Information:

The following reports from the Inventory are attached:

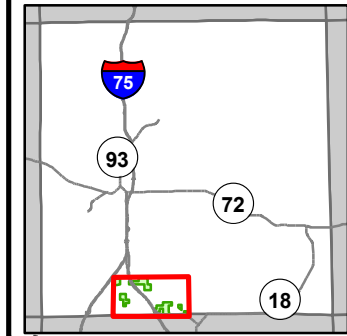
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

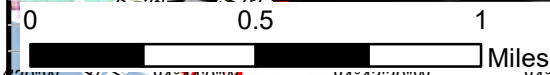
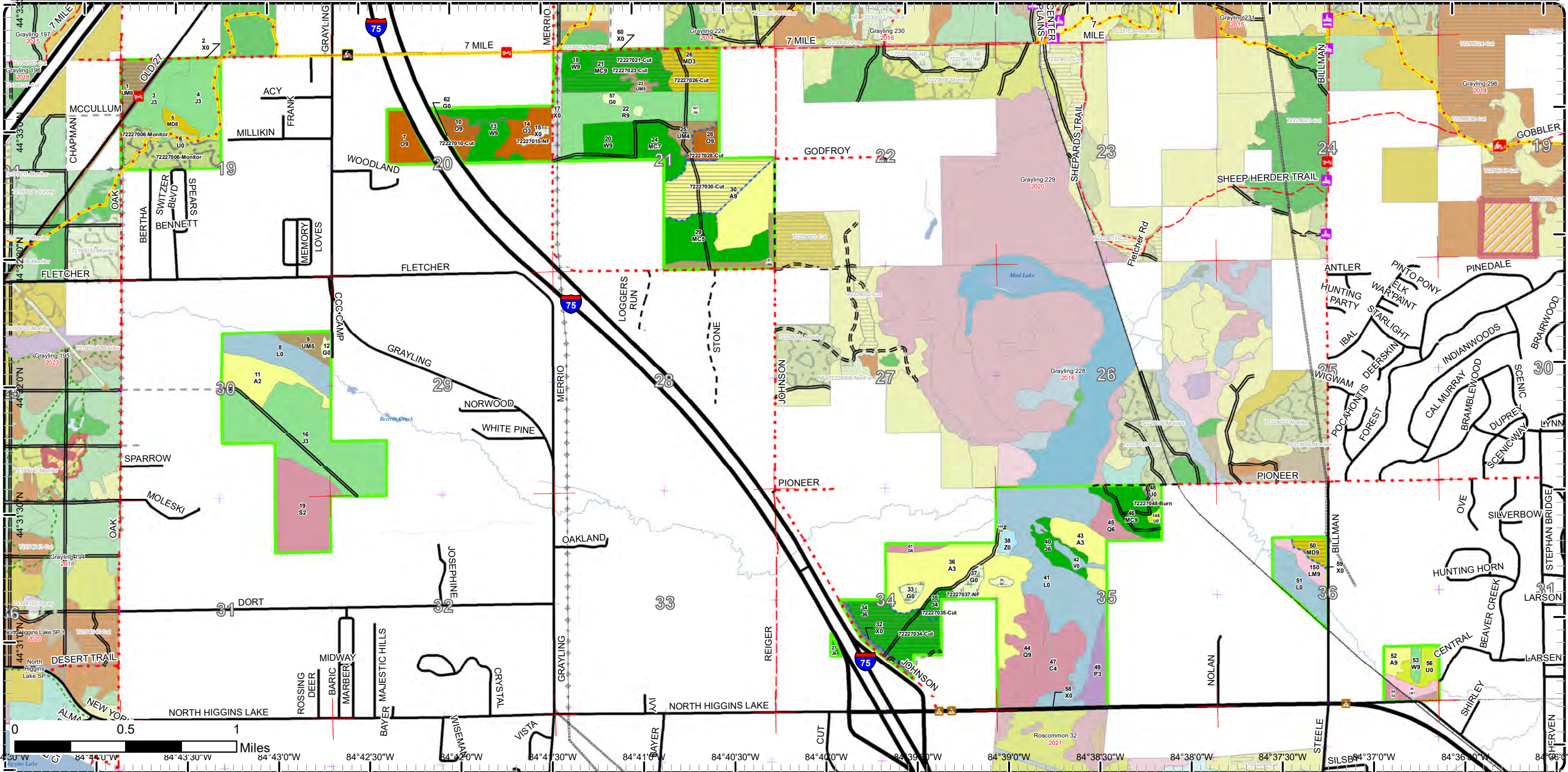
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 227
 T23N, R02W, Sec. 7, 18,
 T23N, R03W, Sec. 10-17, 21
 County: Crawford
 Unit: Grayling
 Mgmt Area: AuSable Outwash
 YOE: 2022
 Acres: 1516.9 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 5/26/2021
 Map Phase: Post-Review



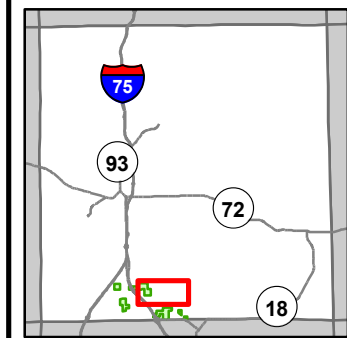
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
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- Private - Dirt / Gravel Road
- Active Railroads
- Motorcycle Trails (SOS License)
- MCCCT Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Ski Trails
- ORV License & Trail Permit
- Designated ORV Route
- Michigan Cross Country Cycle Trail (MCCCT)
- ▲ Berms
- ▲ Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Unspecified
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Prescribed Burn
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated



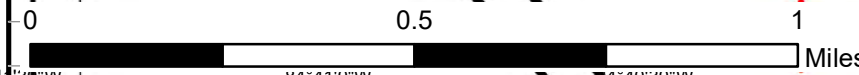
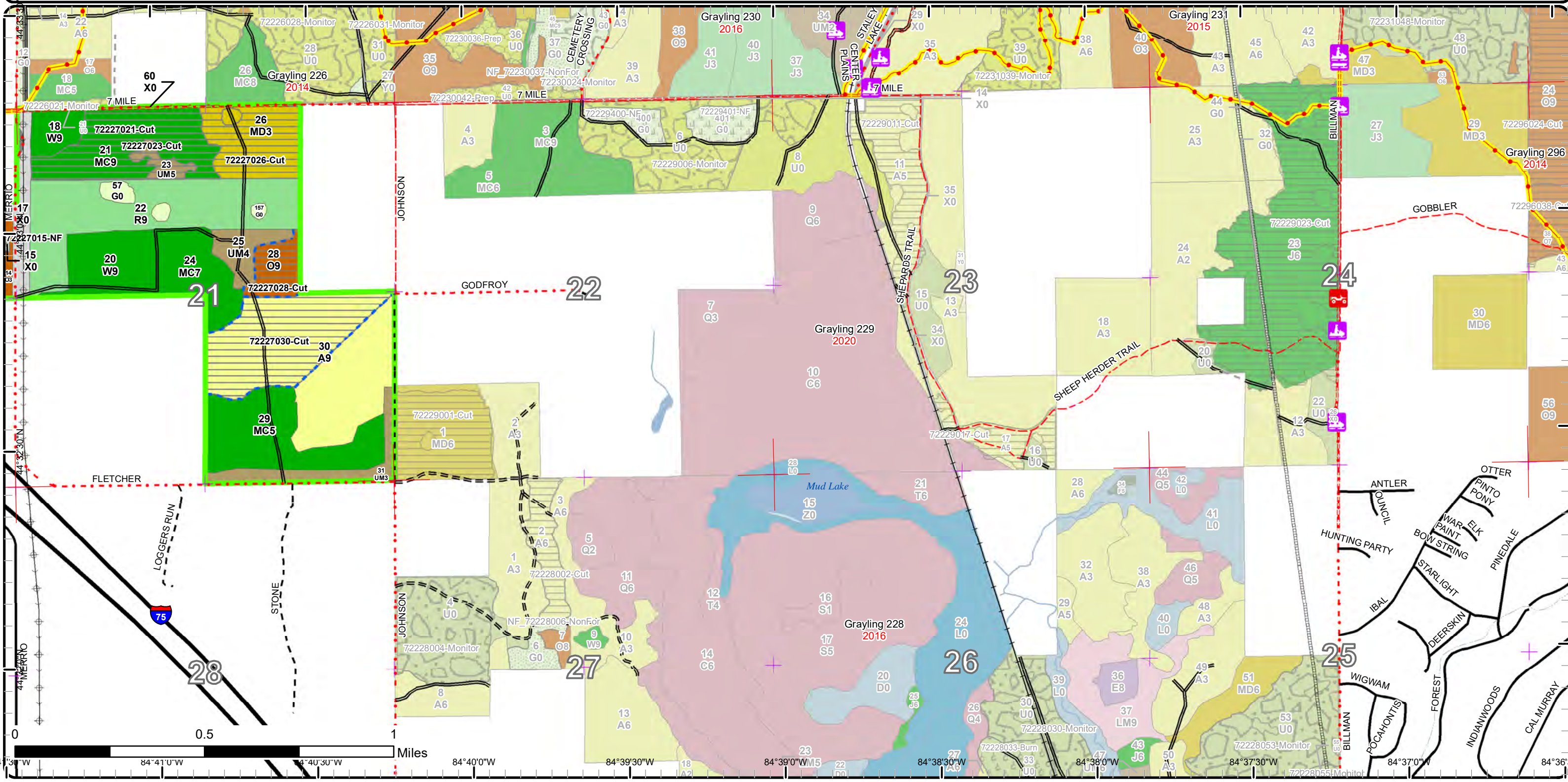
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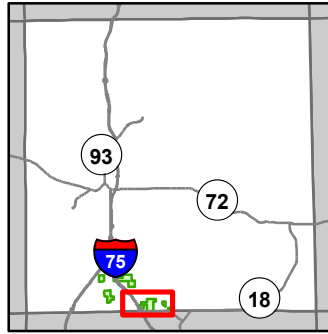
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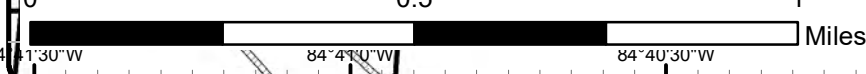
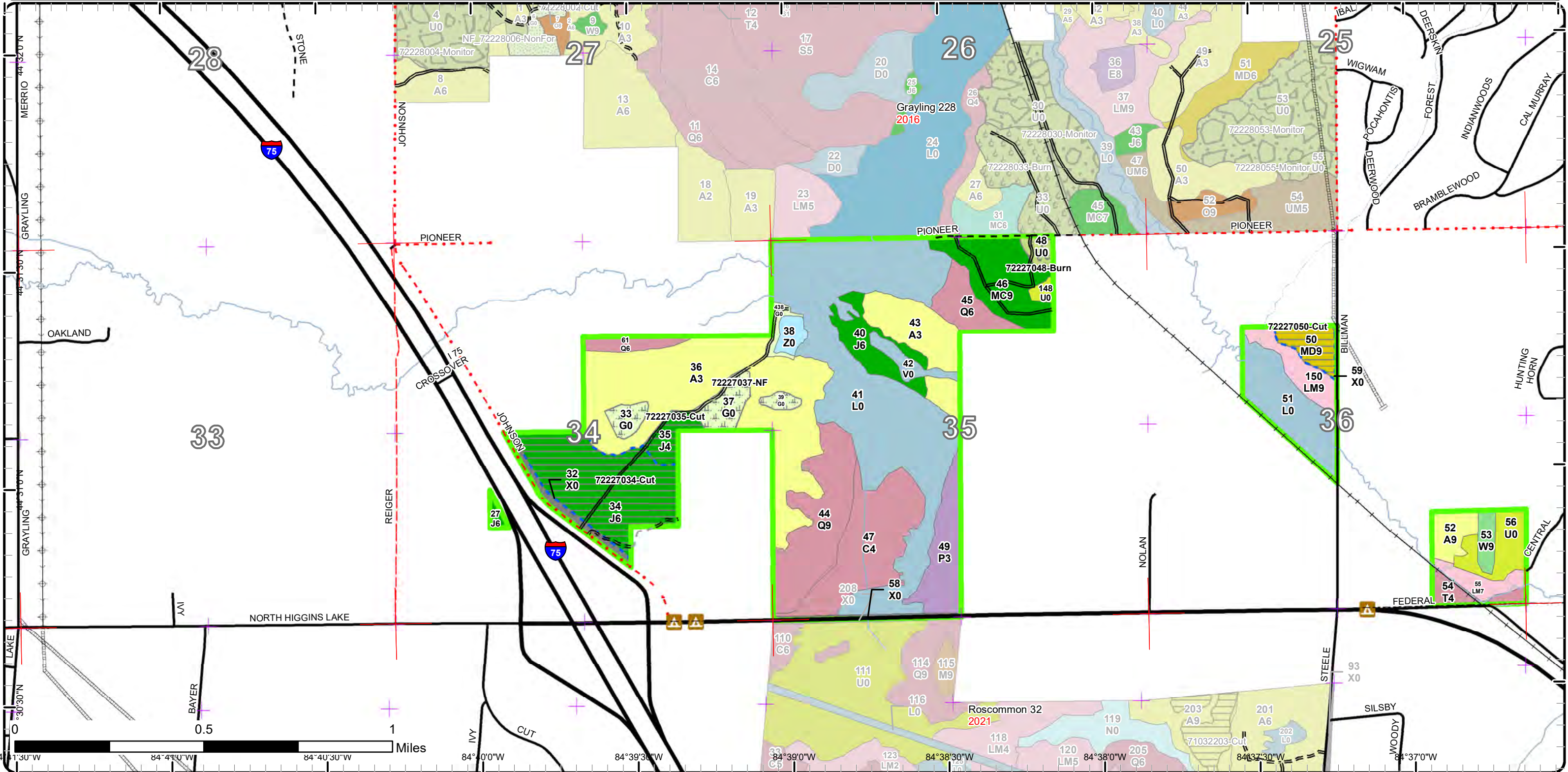
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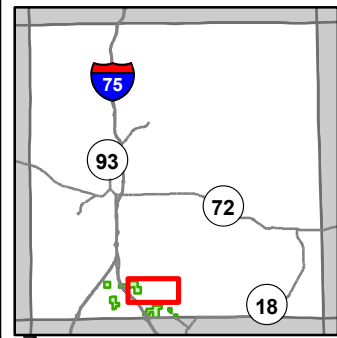
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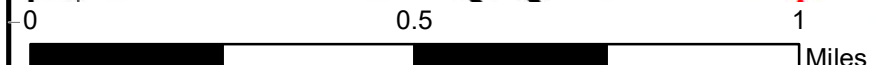
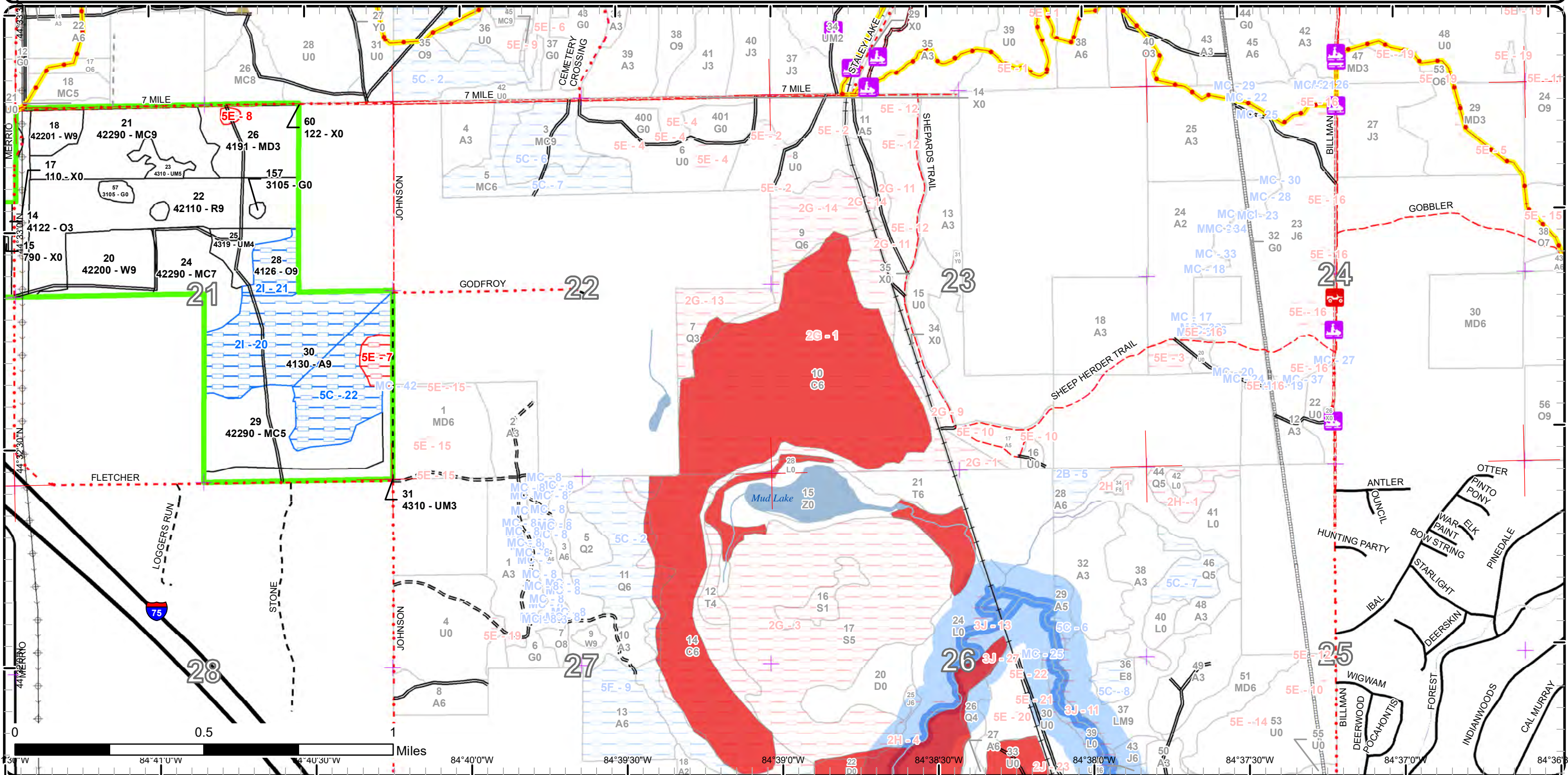
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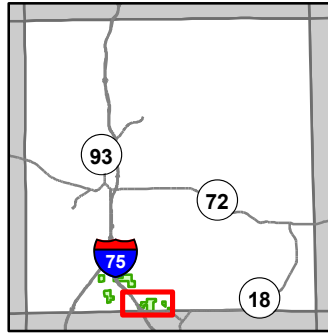
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- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams



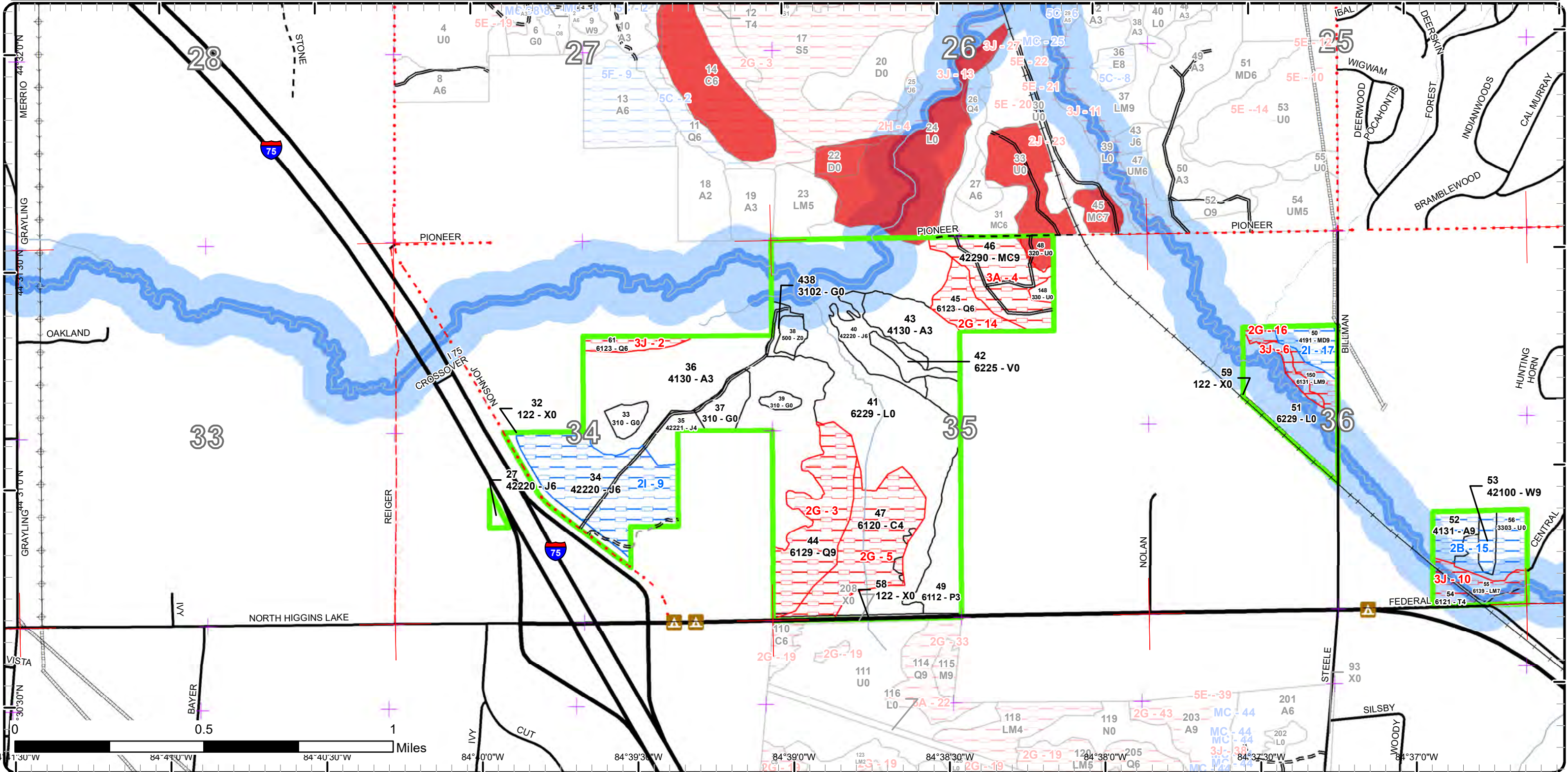
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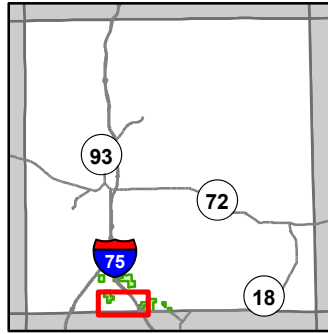


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- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
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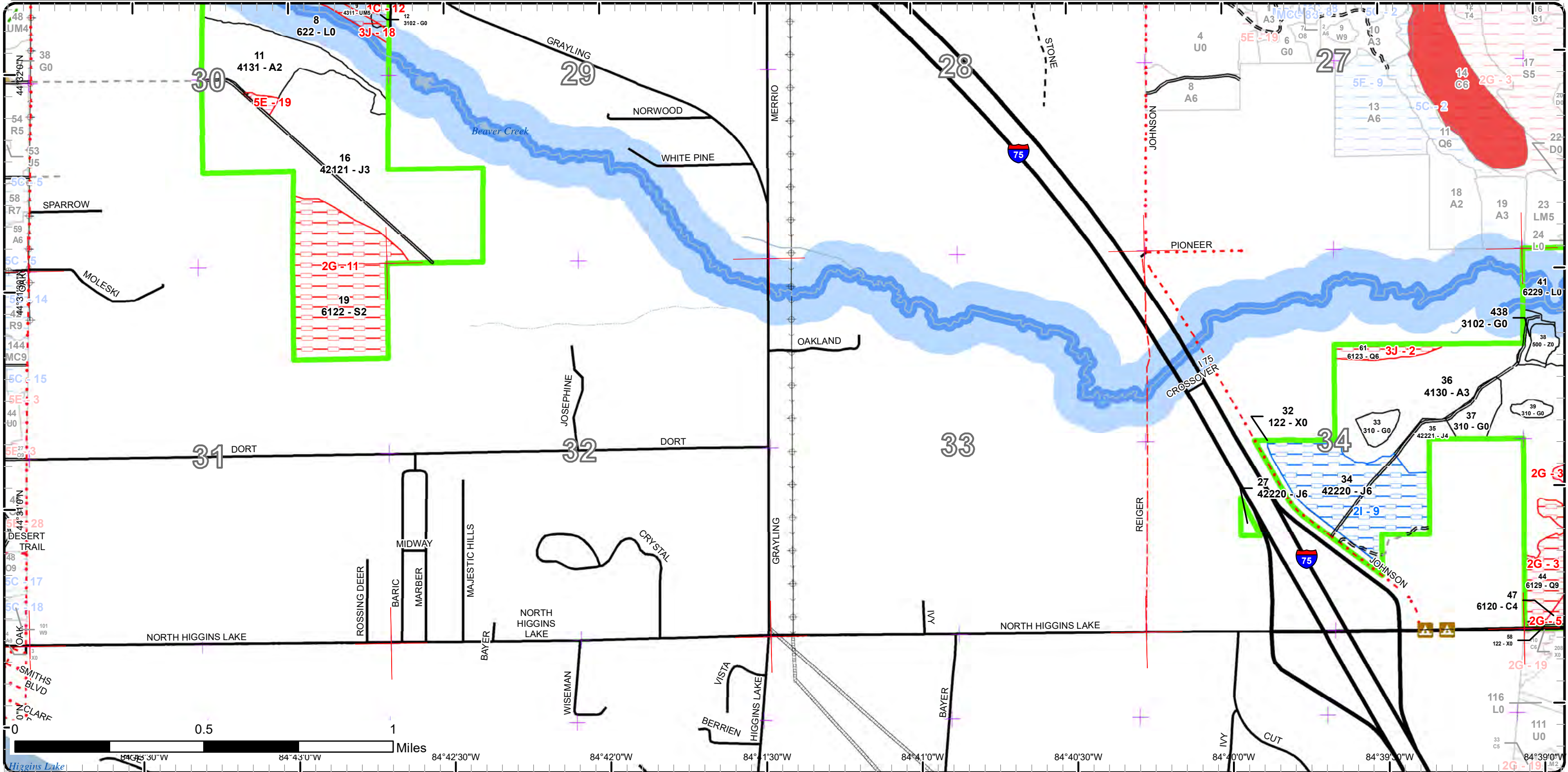


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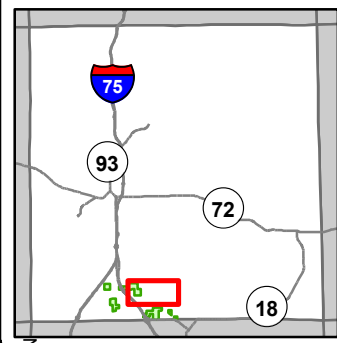


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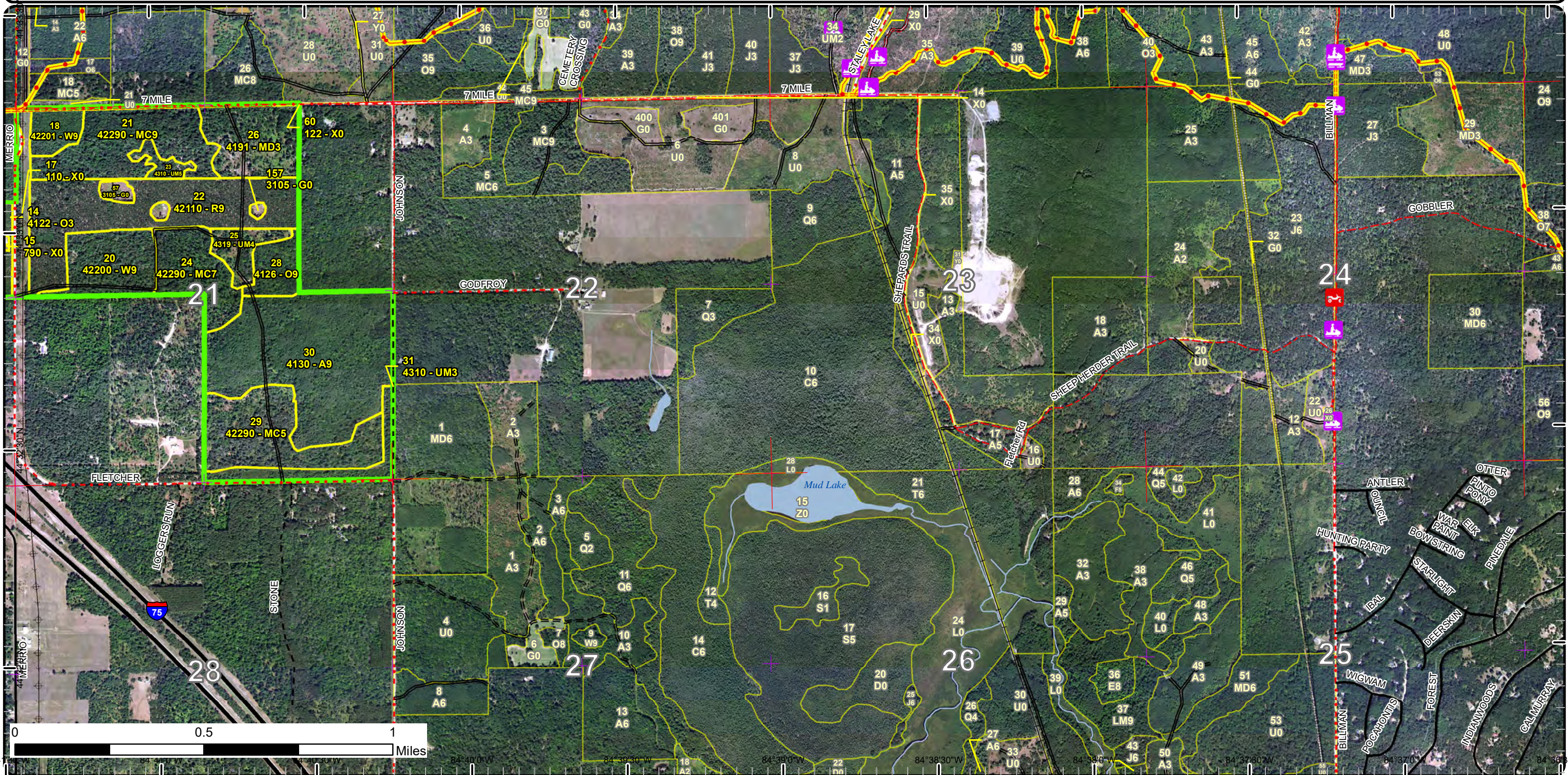


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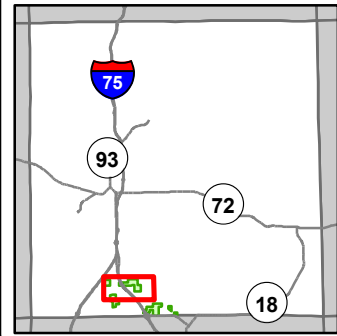


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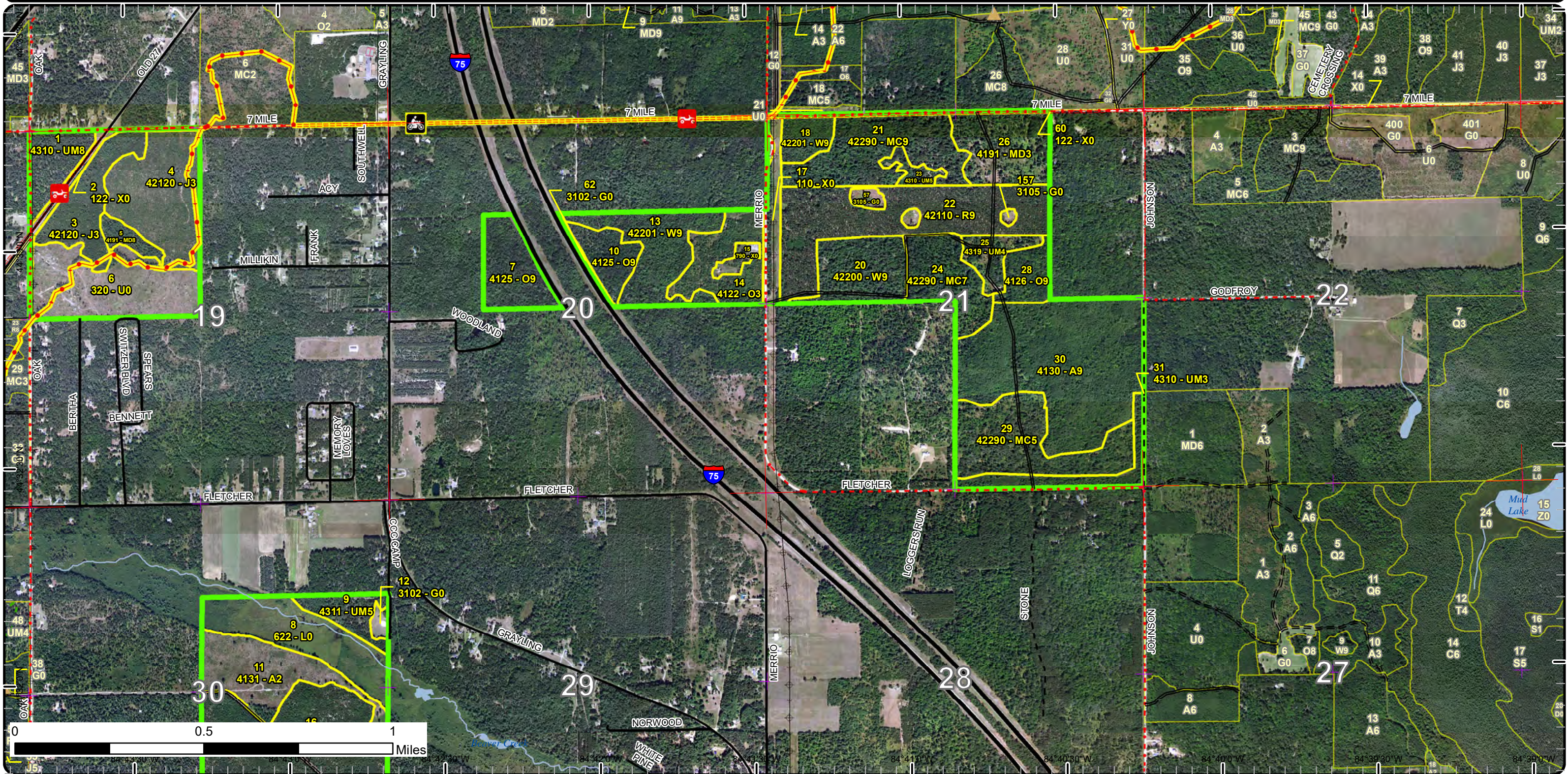
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Age Class

	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	153	0	0	0	0	96	0	0	8	0	0	0	0	0	0	0	0	257
Bare/Sparsely Vegetated	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	40
Herbaceous Openland	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Jack Pine	0	0	44	153	0	0	14	61	0	0	0	0	0	0	0	0	0	0	272
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Conifers	0	0	0	0	0	0	13	0	6	0	0	38	0	0	0	0	0	0	57
Lowland Mixed Forest	0	0	0	0	0	0	0	0	7	11	0	0	0	0	0	0	0	0	18
Lowland Shrub	190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190
Lowland Spruce/Fir	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	0	0	0	63
Mixed Upland Deciduous	0	29	0	0	0	0	6	0	0	9	0	0	0	0	0	0	0	0	44
Natural Mixed Pines	0	0	0	0	0	44	0	0	0	0	54	0	42	0	0	0	0	0	139
Oak	0	0	24	0	0	0	0	23	0	13	12	0	0	0	0	0	0	0	72
Red Pine	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	0	66
Tamarack	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	14	16	12	0	0	0	16	0	0	0	0	0	0	0	0	58
Upland Shrub	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Urban	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	9	64	0	0	0	0	0	0	0	0	0	0	73
Total	332	202	68	167	16	56	138	278	20	57	66	78	42	0	0	0	0	0	1517



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 227

Total Compartment Acres: 1,517

Commercial Harvest - 111
 Harvests with Site Condition - 126
 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	55	0	0	0	0	0	0	0	0	55
Jack Pine	59	0	0	0	0	0	0	0	0	59
Mixed Upland Deciduous	37	0	0	0	0	0	0	0	0	37
Natural Mixed Pines	42	0	0	0	0	0	0	0	0	42
Oak	25	0	0	0	0	0	0	0	0	25
Upland Mixed Forest	19	0	0	0	0	0	0	0	0	19
White Pine	1	0	0	0	0	0	0	0	0	1
Total	237	0	0	0	0	0	0	0	0	237

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	237	0	0	0	4	0	39	0	20	299
Next Step	0	280	140	0	0	179	434	140	0	1173
Total	237	280	140	0	4	179	473	140	20	1473



Stand	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	72227001-Cut	14.5	4310 - Pine, Oak Mix	Sawtimber Medium	84	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with island retention. Focus most of retention along 7 Mile Road. Try and capture some hawthorn in retention. Add low stump spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, <u>Treatments:</u> Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Th</p> <p><u>Acceptable Regen:</u> Fully stocked mixed upland deciduous goal of 25-35% oak. Aspen and pine are also acceptable species. If stand fails to reach objective, plant rp.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
6	72227006-Monitor	38.5	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	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; ; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red Pine</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 /2020</p>											
10	72227010-Cut	13.3	4125 - Black, N. Pin Oak	Sawtimber Well	89	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with island retention. Coordinate with MDOT for trees in I-75 ROW.</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> Mixed upland deciduous with 25-35% oak to be successful. Aspen, maple, and pine are also acceptable species. Plant RP if stand fails to reach 25-35% oak.</p> <p><u>Other Comment:</u> GPS'd only possible road location. Logger can access from north with landowner permission. Mark in right of way unit through stand 13.</p> <p><u>Site Condition</u></p> <p><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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13	72227013-Cut	1.1	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	66	51-80	Harvest	Clearcut	122 - Road/Parking Lot	No
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Prescription Mark in right of way unit for temp road access to stand 10. Treatment area is only feasible location for road due to terrain.
Specs:

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

Acceptable none
Regen:

Other Unit may be dropped without penalty if purchaser obtains access from landowner to north.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

15	72227015-NF	3.7	790 - Other Bare/Sparse Vegetated	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

21	72227021-Cut	41.8	42290 - Natural Mixed Pine	Sawtimber Well	111	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with island retention. Add low stump spec. 1 apple tree found on south side of stand. Add shrub protection.
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 with a smaller white pine component. Plant around pockets of fully stocked white pine regen where feasible.
Regen:

Other Legacy pine should be leave tree marked due to the high number of multi-stemmed white pine that may be larger than 26", but don't meet
Comment: the other criteria for legacy trees.

Site Condition

Proposed Start Date: 10/1 /2021

23	72227023-Cut	4.9	4310 - Pine, Oak Mix	Poletimber Medium	31	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Harvest all stems greater than 2". Add low stump specs.
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 Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26 72227026-Cut	28.0	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	7	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Clearcut with retention. Add low stump specs.										
<u>Specs:</u>										
<u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);										
<u>Treatments:</u> Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand										
<u>Acceptable</u> Fully stocked red pine.										
<u>Regen:</u>										
<u>Other</u> Retention has already been established previous harvest around homestead site.										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										
28 72227028-Cut	11.8	4126 - White, Black, N. Pin Oak	Sawtimber Well	98	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<u>Prescription</u> Clearcut with island retention.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Oak is the objective, but will accept any mixture of oak, maple, pine, or aspen.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u> Survey Needed										
<u>Proposed Start Date:</u> 10/1 /2021										
30 72227030-Cut	54.5	4130 - Aspen	Sawtimber Well	50	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Clearcut with island retention. Retention has been drawn in using aerial imagery around natural pine on east side of stand. Add grouse and										
<u>Specs:</u> shrub spec.										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Aspen goal. Maple, pine, and oak are also acceptable species.										
<u>Regen:</u>										
<u>Other</u> Stick nest GPS'd in Natural pine less than 1 chain off Johnson Rd. Retention as drawn leaves a 5 chain buffer for stick nest while retaining										
<u>Comment:</u> natural pine inclusion.										
<u>Site Condition</u> Survey Needed										
<u>Proposed Start Date:</u> 10/1 /2021										
33 72227033-NF	4.5	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub										
<u>Specs:</u> planting, herbicide application, and removal of invasive species.										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u>										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										



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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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34	72227034-Cut	50.9	42220 - Natural Jack Pine	Poletimber Well	62	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clearcut with retention in island form. Put the cluster of legacy trees in the east into 1 island or multiple islands if too spread out. Add low stump spec.
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 Regen: Natural jack pine objective. Plant red pine in areas of failed regen. Leave a portion to the north poorly stocked adjacent to stand 35 (coordinate with Piccolo and Greco).

Other Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2021

35	72227035-Cut	7.6	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Poor	62	1-50	Harvest	Clearcut	320 - Upland Shrub		No
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Prescription Clearcut without retention due to size.
Specs:

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

Acceptable Regen: Let stand come back as non-forested. Some cherry and scattered jack pine expected.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

37	72227037-NF	8.9	310 - Herbaceous Openland	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.
Specs:

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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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
39 72227039-NF	2.5	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</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 /2021</p>										
48 72227048-Burn	3.9	320 - Upland Shrub	Nonstocked		Immature	Burn	Opening	3303 - Mixed Low Density Trees		No
<p><u>Prescription</u> Burn with stand 33 to the north</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Prescribed Burn</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Scattered pine and cherry.</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> 3 /10/2020</p>										
50 72227050-Cut	9.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	89	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut no retention due to size.</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> Moderately stocked mixed upland deciduous goal (25-35% oak is desired). Large maple component is expected and is acceptable. Any conifer regeneration or aspen are also acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 299.4
Acreage Proposed:

Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 227

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions											
		With Condition	Not Available		2B	2I	5C	1C	2A	2G	3A	3J	5E		
257	151	97	8	Aspen	8	54	35								8
4	4	0	0	Bare/Sparsely Vegetated											
6	6	0	0	Bog											
40	0	0	40	Cedar						40					
28	26	0	2	Herbaceous Openland				2					0		
271	220	51	0	Jack Pine		51									0
15	2	13	0	Low-Density Trees	13										
20	20	0	0	Lowland Aspen/Balsam Poplar											
57	0	0	57	Lowland Conifers						51			6		
18	0	0	18	Lowland Mixed Forest						7			11		
190	189	0	1	Lowland Shrub						1					
63	0	0	63	Lowland Spruce/Fir						63					
44	34	9	1	Mixed Upland Deciduous		9									1
139	111	0	29	Natural Mixed Pines								29			
72	38	12	23	Oak		12			23						
66	66	0	0	Red Pine											
7	0	0	7	Tamarack										7	
58	46	0	12	Upland Mixed Forest				7						5	
50	47	0	3	Upland Shrub											3
35	34	0	1	Urban		0				1					
4	4	0	0	Water											
73	69	5	0	White Pine	5										
1,517	1,065	186	265	Total Forested Acres	26	126	35	9	23	163	29	29	29	12	
	70%	12%	18%	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	3	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							
THIS IS THE ORV BUFFER LEAVE AS RETENTION. Would consider leaving white and red pine, plus mark some healthy oak to leave. Remove aspen and jack pine. Plant? Buffer ORV trail.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 227

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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	5E: Long-Term Retention	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Creek runs through north side of stand.							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3A: Conservation Values incompatible with harvest at this time	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Local recreational use of stand (hiking, snowshoeing, and hunting). Stand has some diverse characteristics and is better left unmanaged so long as it stays healthy.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Beaver Creek, Natural River Tributary buffer.							
7	Unavailable	5E: Long-Term Retention	7	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: Retention for all of stand 30 for both 2022 and 2032 YOE.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

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8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention associated with stand 26, Comp 227 RP Thin (#72-004-12)							
9	Available	2I: Survey needed	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments: South property corner along Johnson Rd and northern corners not found. 3 corners needed.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	63	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	1C: Other dept or div proc/practices	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See locked comments							
13	Unavailable	2A: Adjacent landowner denied access	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 227
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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	2B: Unknown if access through adjacent landowner(s) is possible	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar, hemlock, and legacy pines. Wet mossy soils.							
17	Available	2I: Survey needed	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: West corner not located							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Beaver Creek, Natural River Tributary buffer.							
19	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention island for stand 11's harvest.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 227
Year of Entry: 2022

20	Available	2I: Survey needed	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	2I: Survey needed	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand split into smaller cutting areas. Harvest in 2032 YOE.							

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
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
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	4310 - Pine, Oak Mix	Sawtimber Medium	16.1	84	81-110	N/A	<p>Stand has a lot of dead and declining jack pine. A couple of dense pockets of hawthorn seen on south side of stand. Some aspen on north side of stand. Bordered by Old 27 and Seven Mile Rd. Changed age from 99 to 83.</p> <p>Old comments- The jack pine is declining, there are several dead pockets. However, there are decent sapling recruits throughout the stand. There are good amounts of oak in the 10-20' class. The oak below the browse line looks as through it will be staying there.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		5	Log/Pole	10		Red Maple		Low	Variable	Sapling	
Northern Pin Oak		37	Pole/Log	8		White Oak		Low	Variable	Sapling	
Red Pine		5	Log	12		Northern Pin Oak		Medium	10 - 20 feet	Sapling	
Jack Pine		42	Log/Pole	10	84	Jack Pine		Low	Variable	Sapling	
Paper Birch		1	Log	10		Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub	
Red Maple		10	Pole	7		Black Cherry		Medium	Variable	Sapling	
						Beech		Low	10 - 20 feet	Sapling	
						White Pine		Trace	10 - 20 feet	Sapling	
2	122 - Road/Parking Lot	Nonstocked	6.9			No		Roads			
3	42120 - Planted Jack Pine	Sapling Well	25.2	27	Immature	N/A	<p>Dense jack pine in south from furrow seeding. About 3 acres of aspen with dense hawthorn underneath in north lobe of stand. MCCCT Trail runs through south lobe. Old comments- This stand was trenched and seeded in 94. Primarily jack pine present with scattered cherry and oak. The majority of aspen is in the north. There is a clone of super canopy aspen. Looks like a thin buffer had been left along the road during past treatment.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		10	Pole/Sapling	6		Hawthorn (spp.)		Medium	Variable	Tall Shrub	
Northern Pin Oak		8	Pole/Sapling	5		Black Cherry		Medium	Variable	Sapling	
Jack Pine		80	Sapling	4	27	Northern Pin Oak		Trace	Variable	Sapling	
Red Pine		2	Pole/Sapling	5		Serviceberry (Juneberry)		Trace	10 - 20 feet	Sapling	
						White Oak		Trace	Variable	Sapling	
4	42120 - Planted Jack Pine	Sapling Well	43.9	16	Immature	N/A	<p>Jack pine planted to KW density but with no opposing weeve pattern. MCCCT Trail runs through stand and comes out on Seven Mile Road. Old comments- Planted jack pine with scattered cherry, oak, aspen and shrubs in 2005. The jack averages 4' in height, it is on the edge of being considered a forested stand. The stand looks like it is regenerating fine.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		92	Sapling	2	16	Hawthorn (spp.)		Low	< 5 feet	Tall Shrub	
Black Cherry		5	Sapling	2							
Quaking Aspen		2	Sapling	2							
Northern Pin Oak		1	Sapling	1							
5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	5.9	52	1-50	N/A	<p>Aspen on east and west ends of stand. Middle of stand has more open grown pine with open areas of cherry/hawthorn/serviceberry/prairie willow. Old comments- Poor quality pine stand. Open with a decent amount of blow down (previous inventory also notes blow down). There is pockets of aspen clones with scattered cherry and oak.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		37	Log/Pole	10	52	Northern Pin Oak		Low	Variable	Sapling	
Northern Pin Oak		10	Pole/Sapling	6		Serviceberry (Juneberry)		Low	Variable	Tall Shrub	
White Pine		2	Pole	8		Hawthorn (spp.)		Medium	Variable	Tall Shrub	
Red Pine		5	Log/Pole	10		Black Cherry		Medium	Variable	Sapling	
Jack Pine		30	Pole	8							
White Oak		1	Pole	6							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
6	320 - Upland Shrub	Nonstocked	45.9	0	Unspecified	4211 - Planted Red Pine	The stand was final harvested in 2015 (#014-12), leaving retention along the MCCCT trail & scattered pine. Variance approved in 2016 to change M.O. to planted RP and allow roller chopping and herbicide if needed. Was chopped in 2016 (C72-792), trenched 2017, and sprayed 2019. Planted 1003 TPA PRT RP in May 2021. Recent snowmobile trail re-route crosses through the stand, reducing the planting area. 1.6 acres left unplanted along the MCCCT Trail has O2 with scattered jack pine and cherry.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Jack Pine	Trace	10 - 20 feet	Sapling					
								Red Pine	Trace	< 5 feet	Seeding					
7	4125 - Black, N. Pin Oak	Sawtimber Well	22.8	61	81-110	N/A	Edge call from highway. Stand is landlocked. Very steep drainage in middle. Estimated stand age to be around 60. Some older oaks and a couple pockets of 30 year old aspen seen. Previous inventory notes hybrid saw logs and aspen clones. Photos indicate that there is a conifer component in the southern portion.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								White Oak	5	Pole/Log	8		Red Maple	High	Variable	Sapling
								White Pine	5	Pole/Log	9		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
								Bigtooth Aspen	10	Pole/Log	8					
								Jack Pine	5	Log	10					
								Black/Red (Hybrid) Oak	60	Log	12	61				
								Red Maple	13	Pole/Log	8					
								Red Pine	2	XLog/Log	18					
								8	622 - Lowland Shrub	Nonstocked	37.6			No	Beaver Creek associated wetland. Old dyke cuts through middle of stand and another along pvt boundary in east side that were opened for stream flow. Old comments- Browse on willow shrubs. Pockets of cattails. A stream flows through the stand. Recent deer activities. Pockets of standing dead timber.	
9	4311 - Pine, Aspen Mix	Poletimber Medium	11.9	49	51-80	N/A	Changed age from 70 to 48 years old. There are some scattered red and white pine that look 70, but dominant canopy spp. aspen core shows to be around 48. Lots of WL shrubs in understory. Old comment- White pine, red pine, spruce, and fir also present. Old trail system found in the stand.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Quaking Aspen	54	Log/Pole	10	49	White Pine	Medium	Variable	Sapling
								Northern Pin Oak	2	Log/Pole	11		Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub
								Jack Pine	40	Pole	8		Black Cherry	High	Variable	Sapling
								Red Pine	2	Log/XLog	16		Quaking Aspen	Low	5 - 10 feet	Sapling
								White Pine	2	Log/XLog	16		Northern Pin Oak	Low	< 5 feet	Sapling
													Wild Raisin	Low	5 - 10 feet	Tall Shrub
													Serviceberry (Juneberry)	Trace	5 - 10 feet	Sapling



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10	4125 - Black, N. Pin Oak	Sawtimber Well	13.3	89	51-80	N/A	Significant oak mortality. Changed age from 94 to 88 years old. Old comments- The oak is declining, white pine and red maple are starting to fill in underneath. Good amounts of down woody debris. Topography in stand.																																																																
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11	4131 - Aspen, Oak	Sapling Medium	34.0	6	Immature	N/A	<p>Changed management objective from natural jack pine, mixed deciduous to aspen/oak through 2022 compartment review. Stand is fully stocked. Aspen dominates most of stand with pockets of oak, jack pine and cherry. Should fill into A3 with jp next yoe.</p> <p>Was cut by May 2015 (72-14-12-01), with scattered marked-to-leave pine & oak. Stand 59 was designated retention.</p>																																																																
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12	3102 - Grass	Nonstocked	2.4		Immature	No	Snow depth limited ground cover calls. Open with an island of aspen and a lone jack pine or two.																																																																
13	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	33.0	66	51-80	N/A	East side of stand has more of a shelterwooded 2-aged look due to removal cut in 93. West side has more white pine and either wasn't cut or had very little removed. Large steep depression on south side of stand. Legacy trees in south side of stand. Old comments- Everything but white pine removed along eastern portions? The stand starts in a valley. Topo throughout. Variable (age, size, quality). The nw seems to have the biggest and best quality wp BA in pockets. Lots of areas w/ poor quality. Records indicate an overstory removal took place in 93' oak and white pine under 8" left, all aspen jp cut.																																																																
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14	4122 - Oak, Pine	Sapling Well	24.3	19	Immature	N/A	Oak regen came back thick following harvest. Jack pine heavy close to Merrio Rd and scattered through stand. Heavily browsed white oak is consistent below main cohort. The residual oak regen left during harvest is pole sized now. Old comments- The advanced regen left from harvest is as tall as 30'. This stand will be heavier to jack in the future. Browse is evident.																																																																
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15	790 - Other Bare/Sparsely Vegetated	Nonstocked	3.7		Immature	No	Old comment- Knappweed, sedge, blackberry, and grasses evident through the snow. Aspen clones are growing out of the berms. Former transfer station.																																																																



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16	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	127.4	27	1-50	N/A	Tightly spaced Jack pine still only 2-3" dbh. Pockets of aspen getting into pole class. Gas line cuts through middle of stand. Old comments- The stand was trenched and seeded in 94. Majority of the timber is around 10'. A couple aspen clones. Open areas can also be found. A couple stems of red and white pine also present.																																																															
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17	110 - Low Intensity Urban	Nonstocked	12.1			No	Road and power line ROW. Strip of pine/oak pole timber between road and powerline ROW.																																																															
18	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	9.4	51	111-140	N/A	Records indicate clearcut in 1984. Looks like all pine was left when cut. A lot of white pine is saw size with a few legacy lines scattered through. Core of 12" white pine indicates age around 50 however, x-log white pine appear 90+ years old. Stand appears 2 aged after 84 cut, but does not meet criteria for calling 2-aged. Old Comments: Thick white pine and aspen approximately 30-40' tall. White oak and red maple mixed in as well. The pine is in pretty good condition.																																																															
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19	6122 - Black Spruce	Sapling Medium	63.3	63	1-50	N/A	Changed age from 79 to 62 years old. Hummacky ground throughout. Old comments- Stand swapped from Non-Forested to Forested. Certainly not a L-type. Canopy cover is right at the 50% range. Canopy height is anywhere from 10-35'. Scattered tamarack. Areas of open water. The stand has an open feeling to it, navigation is fairly easy as long as wet feet is not an issue.																																																															
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20	42200 - Natural White Pine	Sawtimber Well	26.2	66	51-80	N/A	Open-grown multi-stemmed and multi leader red pine and white pine getting x-log size. White pine and hardwoods full in understory. A lot of white pine poles are pitching out and oak/maple pretty steady throughout understory. Significant jack pine mortality occurring. Stand has an MC7 look to overstory through a lot of it, but white pine poles/saps have filled in gaps. Changed age from 40 to 65. Old comments- scattered sawlog size seed trees among regen 15-30' tall. An oak here and there. Deer activity.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
21	42290 - Natural Mixed Pine	Sawtimber Well	41.8	111	111-140	N/A	West side of stand has really nice red and white pine. Stand age was difficult to nail down. Cored WP at 130, 110, and 87yo. Some legacy trees too large to core mixed in as well. 75 yo nat RP in middle. East half of stand has a lot of multi-leader X-log size white pine. West side has better quality white pine. Old comments-Jack pine and scotch pine removed from a thin planted strip along 7-mile road(mid90's). A variable mixed pine stand. Areas of wolfy white and red pine with pole and sapling classes. The big trees in the north have open grown qualities. A few areas have a nice thick white pine understory. A couple nice oak salings and a sawlog here and there. Heavier to red pine in the middle. A southern portion of stand has a pocket of decent quality red pine. This portion of the stand was thinned last YOE. The western edge has nice quality sawlog wp, the understory in this portion is either a carpet of white pine or dog hair red maple.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	49	Log/Pole/XLog	13	111	Red Maple	High		Variable	Sapling
Red Pine	29	Log	14	76	White Pine	Medium		Variable	Sapling
Jack Pine	2	Pole/Log	9		White Oak	Low		Variable	Sapling
Scotch Pine	2	Pole/Log	8		Northern Pin Oak	Low		Variable	Sapling
Northern Pin Oak	4	Log/Pole	10						
White Oak	4	Pole/Log	8						
Red Maple	4	Pole	7						
Black Cherry	6	Pole/Log	8						
22	42110 - Planted Red Pine	Sawtimber Well	66.5	62	111-140	N/A		Residual red pine looks healthy. 130 sqft/ac with QMD of 10.4". Some x-log size white oak in east side of unit. Old comments-Some white pine and mixed hwdws present. Third row thinned 92-93. Stand is lower quality. Some areas all pulp wood. Areas of porcupine damage. Post-harvest update: Set up under marking contract by Metcalfe Forestry. Crown thinned by late 2013 (72-004-12-01), cruised residual of 125 sq. ft. Per the approved treatment, all RP within identified mortality pockets were cut, totalling just under 4 acres. The larger 2 were separated out as their own non-forest stands. The far east pocket was too small and remains an inclusion in the parent stand.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Pine	97	Log/Pole	10	62	Northern Pin Oak	Low	Variable		Sapling
White Oak	1	Log/XLog	16		Black Cherry	Low	Variable		Sapling
Northern Pin Oak	1	Pole/Log	9		White Oak	Trace	Variable		Sapling
White Pine	1	Log	14		White Pine	Low	5 - 10 feet		Sapling
					Red Pine	Trace	10 - 20 feet		Sapling
					Red Maple	Trace	5 - 10 feet		Sapling
23	4310 - Pine, Oak Mix	Poletimber Medium	4.9	31	1-50	N/A	This stand is starting to fill in. Soon it will be a white pine stand.		
Canopy Species	% Cover	Size Class	DBH	Age					
White Pine	45	Pole/Sapling	5	31					
Black Cherry	30	Pole	7						
Northern Pin Oak	20	Pole/Sapling	5						
Jack Pine	5	Sapling/Pole	4						
24	42290 - Natural Mixed Pine	Sawtimber Poor	25.3	98	51-80	N/A	Natural pine stand harvested in 2006 (Red Pine Divide #72-037-04). Sale specs say green marked leave trees are protected for visual and wildlife concerns. Stand is now converting to red maple. Numerous legacy pines spotted during walk through. East side of stand has aspen mixed into understory. Old Comments: Looks like a seed-tree? No conifer in the understory, almost entirely red maple stump sprouts w/ browse. There is some oak found along western edge.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	48	XLog/Log	20		Red Maple	Full		>20 feet	Sapling
Red Pine	49	Log/XLog	17	98	White Oak	Low		< 5 feet	Sapling
White Oak	2	Log	12		White Pine	Low		Variable	Sapling
Black/Red (Hybrid) Oak	1	Log	14		Hawthorn (spp.)	Trace		5 - 10 feet	Tall Shrub
					Bigtooth Aspen	Medium		>20 feet	Sapling
					Black Cherry	Low		>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
25	4319 - Mixed Upland Forest	Poletimber Poor	10.8	36	1-50	N/A	Changed from non-forested to forested. Open cherry/pine with serviceberry and hawthorn mixed in. Old comments- Starting to fill in with recruits from adjacent stands. Timber is in clumps, brush is present throughout.																																																																		
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26	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	29.3	7	1-50	N/A	Changed stand to 2-aged. Some pole and saw sized oak left on north side of stand. Heavier BA left along 7 Mile Rd. North side of stand looks like MD6 and south side looks like MD3. Old comments-There was a strip of jack pine and scotch pine along 7-mile Rd. The strip was the seed source for the scotch pine in this stand. Turns into an oak type along the eastern edge. European popple (white popple) also present in the stand. 2 age classes present. Post-harvest update: Set up under marking contract by Metcalfe Forestry. Cut by early 2014 (72-004-12-01), leaving the RP, WP & oak, with a cruised residual of 30 sq. ft.																																																																		
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27	42220 - Natural Jack Pine	Poletimber Well	1.7	62	51-80	N/A	Isolated piece of state land. Remote call on cover type.																																																																		
28	4126 - White, Black, N. Pin Oak	Sawtimber Well	11.8	98	81-110	N/A	Oak is declining. Super canopy white pine present. Old comment. New stand added. Sawlog size oak and red pine. Browse on all oak under 5'. White pine and red pine are starting to seed in. The stand contains several nice looking den and snag trees.																																																																		
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29	42290 - Natural Mixed Pine	Poletimber Medium	43.6	44	51-80	N/A	Merged non-forested stands 27 and 32 with stand 29. Patchy white pine and jack pine with open cherry pockets mixed in. Oak regen steady through most of stand with maple and white pine more towards the west. Open grown double stem x-log red pine and large multi-leader white pine scattered through stand. Old comments- Pockets of jack pine with scattered red pine, mixed in with pockets of upland brush. Heavy browse. Poor quality site. Some white pine present in the stand.																																																																		
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30	4130 - Aspen	Sawtimber Well	95.7	50	111-140	N/A	About 8 acres of 97 year old natural pine with a couple legacy trees on the east side of stand with maple and aspen below. Pine must have been excluded from previous harvest.																																																													
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White Oak	Low	< 5 feet	Sapling																																																																	
White Pine	Trace	Variable	Sapling																																																																	
31	4310 - Pine, Oak Mix	Sapling Well	14.3	21	Immature	N/A	Powerline runs along south and east boundaries. Hydrant at intersection of Fletcher and Johnson.																																																													
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32	122 - Road/Parking Lot	Nonstocked	6.4	0		No	Johnson Road.																																																													
33	310 - Herbaceous Openland	Nonstocked	4.5		Unspecified	Managed Opening	Old comments- Knappweed present. 2 sawlog size red pine in stand. Pushed 2 deer during data collection. Maintained by wildlife. JC update: variance was approved in 2013 to continue opening maintenance (W72-735). Planted to rye in 2013 & 2014, planted mast, buckwheat & clover in 2015, and rye in 2016.																																																													
34	42220 - Natural Jack Pine	Poletimber Well	51.0	62	51-80	N/A	A few legacy red pines scattered through stand (1 measured at 33" dbh). Some jack pine showing signs of decline. 2 acres of aspen along north boundary. Old comments- Fire origin jack pine with scattered sawlog size red pine. Old plow lines are still visible as well as fire scars still visible on some of the relic pine. A small amount of aspen present. Very little for understory shrubs, primarily hawthorn and cherry. Most of jack pine is 30-40' tall.																																																													
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35	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Poor	7.6	62	1-50	N/A	Changed to forested. Looks to be same age as JP to west (fire origin). Old comment- This stand is starting to fill in with scattered cherry brush and jack pine. Red pine present also.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
36	4130 - Aspen	Sapling Well	93.8	6	Immature	N/A	Aspen came back good with the exception of a couple small openings with cherry brush and/or oak. Looks like ground might be kind of wet on east side adjacent to fir/cedar stand.Old comments- Was final harvested by May 2015 (72-014-12-01). Previous comments: Much of the open and upland-brush areas found in this stand were old pastures or farm fields. This entire section of State ownership was burned over around 1960. The old photos show the stand had previously been dominated by jack pine with clones of aspen throughout. The maintained openings encompassed by this stand were open areas on the 52's.																													
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37	310 - Herbaceous Openland	Nonstocked	8.9		Unspecified	Managed Opening	Old comments- Knappweed present. Clumps of shrubs. Maintained by wildlife. JC update: variance was approved in 2013 to continue opening maintenance (W72-735). Mowed in 2013, planted to buckwheat & clover in 2014, mast & rye planted in 2015, and buckwheat & clover planted in 2016.																													
38	500 - Water	Nonstocked	4.1			No	Some beaver activity around pond.Old comments- Areas of beach included within the stand boundary (reason for ground cover call of grass) . Grass, sedge, sweetfern, and some cattails present. This is a wetland mitigation pond built by M-DOT in 1995 (I-75BL). Originally was a man made field? Photos from the 50's and 60's show several structures on the northern edge of the stand. Foundations are still present. This parcel was aquired through a Government exchange in 49'.																													
39	310 - Herbaceous Openland	Nonstocked	2.5		Unspecified	Managed Opening	Old comments- Another small maintained opening. JC update: variance was approved in 2013 to continue opening maintenance (W72-735). Buckwheat planted in 2013, planted to buckwheat & clover in 2014, mast & rye planted in 2015, and buckwheat & clover planted in 2016.																													
40	42220 - Natural Jack Pine	Poletimber Well	14.0	58	51-80	N/A	North tip is more fir/white pine.Old comments- Pole size jack pine, with a trace of white pine. Thick bracken ground cover.																													
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41	6229 - Mixed lowland shrub	Nonstocked	126.2		Unspecified	No	Thick alder and willow with come open areas full of cattails. Some creeks come together in north side of stand. Old comment- Tag alder swamp with willow and cattails. Wet.																													
42	6225 - Bog	Nonstocked	5.5			No	Old comment- Blueberry bog. With scattered conifer.																													
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43	4130 - Aspen	Sapling Well	24.9	6	Immature	N/A	Stand regenerated to fully stocked aspen.																																																																															
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44	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	37.6	106	81-110	N/A	Old comments- Birch and aspen also present. The stand is made up of clumps of cedar or mixed hdwd with younger fir covering the entire stand. The ash and birch are declining rapidly. Open water. Areas with more water often create shrub dominated pockets (alder), these pockets are present throughout.																																																																															
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45	6123 - Lowland Fir	Poletimber Well	12.9	57	1-50	N/A	Changed to 2 aged. Difficult stand to navigate with alder and blow down. Old comments- A wet stand, areas of open water. Most of the miscellaneous hdwds are in decline. Pockets of alder.																																																																															
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46	42290 - Natural Mixed Pine	Sawtimber Well	28.5	98	141-170	N/A	A few large diameter sugar maple along east boundary. Hemlock is declining. BA is 148 sq.ft/ac with a QMD of 11.5. Numerous legacy trees scattered through stand. Old comments- Traces of hemlock throughout the stand. A few wet areas. This is a very nice looking stand, some 10 stick trees. Quality is variable in wet areas and on the eastern edge. The fir understory is variable but a lot of it is 20-30' tall. The trail roads are used by locals for walking and snowmobiles.																																																																															
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47	6120 - Lowland Cedar	Poletimber Poor	40.0	106	1-50	N/A	Significant cedar mortality. Stand is more open than adjacent cedar stand with large open alder or cattail filled openings. May have to call stand non-forested next yoe. Creek drainage runs north through stand.Old comments- Dead and dying cedar and white pine. Understory is most likely similar to the stand adjacent to the north.																																																				
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48	320 - Upland Shrub	Nonstocked	3.9		Immature	Managed Opening	North half of stand harvested 2018, Turkey Foot (72-044-16). North half of stand is designated as pine barrens in MNFI.Old comment- Grassy opening filling in with conifer.																																																				
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49	6112 - Lowland Aspen	Sapling Well	20.0	6	Immature	N/A	Stand is fully stocked with quaking aspen (dense regen except a couple lower spots). Inventoried in winter, but ground looks pretty squishy in places. Old comments- Was final harvested by October 2015 (72-014-12-01). A narrow strip was excluded from the harvest on the south edge between the overhead utility line & the federal highway, due to concerns over safety of operations.																																																				
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50	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	9.0	89	51-80	N/A	Stand 150 was split from original stand 50 using aerial imagery. Stand was split due to the change in topography (upland to lowland) and covertype. Quantitative data was collected for original stand then later split. Average BA was 80 sqft/ac with a QMD of 9.4". Oak and jack pine are declining rapidly.Old comments- The stand slopes down towards the drainage. On top it is oak, jack pine, red pine. The lower you go the thicker the fir understory. The west side starts to get wet- this is where the white pine and red maple start to dominate. NE corner has had a fire event.																																																				
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51	6229 - Mixed lowland shrub	Nonstocked	25.9			No	Tag alder stream (Beaver Creek) associated wetland. Natural river tributary. A couple acres of inaccessible uplands on southwest side of stand adjacent to railroad tracks.																																																				
52	4131 - Aspen, Oak	Sawtimber Well	8.4	87	51-80	N/A	Over mature aspen and oak. Maple coming up under oak while aspen is converting to fir. Old comment- lots of dead/down/woody/debris.																																																				
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53	42100 - Planted White Pine	Sawtimber Well	4.6	60	171-200	N/A	White pine plantation never been thinned. Old comments- Majority of white pine is poor in form. Some cherry and oak clumps present.																																																																								
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54	6121 - Tamarack	Poletimber Poor	7.1	77	51-80	N/A	Old skid road on east side of stand stops at beaver creek going through alder. Access may be possible with combination of temp bridge and crane mats. Railroad splits stand.																																																																								
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55	6139 - Mixed Lowland Forest	Sawtimber Poor	7.2	77	1-50	N/A	Old comments- Elm, oak, cedar, and red maple also present. Most of timber is along the edges. There is an old drive in southern portion of stand where a bridge or culvert must have been pulled.																																																																								
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Tamarack	Trace	Variable	Sapling																																																																												
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American Highbush Cranberry	Trace	5 - 10 feet	Tall Shrub																																																																												
Dogwood (spp.)	Trace	5 - 10 feet	Tall Shrub																																																																												
56	3303 - Mixed Low Density Trees	Nonstocked	12.5			No	Cherry, jack pine, maple, white pine, and oak all present in clumps. Old comments- Slowly filling in with conifer and cherry. A few large oaks present.																																																																								
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57	3105 - Mixed Upland Herbaceous	Nonstocked	4.0			No	West pocket filling in with red maple, cherry, and red pine. East pocket mostly open still. Old comments- Post-harvest update: Set up under marking contract by Metcalfe Forestry. The parent stand was crown thinned by late 2013 (72-004-12-01). Per the approved treatment, all RP within identified mortality pockets were cut. This was one of those pockets.																																																																								
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58	122 - Road/Parking Lot	Nonstocked	3.4	0		No	Stand is fully stocked with quaking aspen (dense regen except a couple lower spots). Inventoried in winter, but ground looks pretty squishy in places. Old comments- Was final harvested by October 2015 (72-014-12-01). A narrow strip was excluded from the harvest on the south edge between the overhead utility line & the federal highway, due to concerns over safety of operations.																																																										
59	122 - Road/Parking Lot	Nonstocked	2.5			No	Road and railroad track																																																										
60	122 - Road/Parking Lot	Nonstocked	3.9	0		No																																																											
61	6123 - Lowland Fir	Poletimber Well	6.1	74	81-110	N/A	Small creek runs through stand. Mostly fir/maple with cedar and a couple white pine legacy trees. Changed age from 61 to 73, but there are older trees mixed in. Old comment- Six acres of swamp that were originally included within the upland aspen stand 36. Was excluded from the 2012 YOE harvest boundary, and had to be split off as its own stand during post-sale MiFI updates. Age data taken from stand 44.																																																										
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62	3102 - Grass	Nonstocked	1.8	0		No	I-75 ROW																																																										
148	330 - Low-Density Trees	Nonstocked	2.0		Immature	No	Split from parent stand (48). South portion of original stand 48 that was excluded from 2018 treatment, Turkey Foot (72-044-16). North half of stand is designated as pine barrens in MNFI. Old comment- Grassy opening filling in with conifer.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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150 6131 - Hemlock, White Pine, Maple, Birch
Sawtimber Well 11.1 89 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	33	Log/Pole	10	89
Black/Red (Hybrid) Oak	10	Log/Pole	12	
Balsam Fir	4	Pole	8	
White Pine	33	XLog/Log	20	
White Oak	1	Log/XLog	16	
Paper Birch	2	Pole	8	
Hemlock	5	Log/Pole/XLog	11	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Red Maple	Low	Variable	Sapling

Lowland stand split from original stand 50 due to topography and covertype. Aerial imagery was used to make the split. Stand contains legacy white pine with scattered hemlock. Cedar/fir in really low areas with mossy ground layer. Maple and fir throughout all of stand as well. Quantitative data collected for original stand 50 then split later. Age from adjacent oak stand was used for this stand. Old comments from original stand 50- The stand slopes down towards the drainage. On top it is oak, jack pine, red pine. The lower you go the thicker the fir understory. The west side starts to get wet- this is where the white pine and red maple start to dominate. NE corner has had a fire event.

157 3105 - Mixed Upland Herbaceous Nonstocked 0.9 0 No

West pocket filling in with red maple, cherry, and red pine. East pocket mostly open still.

Old comments-Post-harvest update: Set up under marking contract by Metcalfe Forestry. The parent stand was crown thinned by late 2013 (72-004-12-01). Per the approved treatment, all RP within identified mortality pockets were cut. This was one of those pockets.

438 3102 - Grass Nonstocked 3.0 No

Opening around pond split from original stand (38).

Old comments- Areas of beach included within the stand boundary (reason for ground cover call of grass) . Grass, sedge, sweetfern, and some cattails present. This is a wetland mitigation pond built by M-DOT in 1995 (I-75BL). Originally was a man made field? Photos from the 50's and 60's show several structures on the northern edge of the stand. Foundations are still present. This parcel was aquired through a Government exchange in 49'.