



# Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71086

Entry Year 2023

Acreage: 2,412

County Ogemaw

Management Area: Ogemaw Hills

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**Stand Examiner:** Brian Martell

**Legal Description:**

T24N, R02E, sections 27-29, 32-34.

**Identified Planning Goals:**

Vegetation management in the Ogemaw Hills management area (MA) will provide timber products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on harvesting older jack pine, balancing the age-class distributions of oak and aspen and regenerating red pine.

**Soil and topography:**

Soil is mostly Graycolm sand with some Mancelona, Rubicon, and Klacking sands. Terrain is mostly flat with some hilly terrain on the east side of the compartment.

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

The area is mostly state land with private ownership along the east and north sides of the compartment. There is a lot of oil and gas infrastructure within the compartment.

**Unique Natural Features:**

None known.

**Archeological, Historical, and Cultural Features:**

None known.

**Special Management Designations or Considerations:**

None known.

**Watershed and Fisheries Considerations:**

N/A

**Wildlife Habitat Considerations:**

This compartment is located just west of Rose City and north of highway M-55. Stand types include aspen, and mixed hardwoods. Topography is rolling hills comprised of ice contact ridges. Numerous well sites and supporting infrastructure are located within the compartment. The compartment is important to deer, turkey, grouse and woodcock. Black bear also frequent the compartment, especially in association with stands that produce hard mast food sources. This compartment sees heavy pressure for hunting. Management considerations include treatments that will promote hard and soft mast production for wildlife including retention of large crown mast producing trees when possible. Early successional species such as aspen should be managed to ensure young stands are always available for grouse and woodcock. To promote snowshoe hare and other small mammals, brush piles will be constructed in association with timber harvests along lowland edges. Aspen stands will be managed to promote young forests for early successional wildlife species. Whenever possible, aspen harvests will include drumming logs to enhance breeding habitat for ruffed grouse. Currently there are no managed wildlife openings within the compartment.

**Mineral Resource and Development Concerns and/or Restrictions**

No known potential exists for commercial metallic mineral production in this part of the state. No known active sand/gravel pits occur in the area. There appears to be some good potential for sand & gravel within the compartment, but development could be limited by the extent of oil & gas infrastructure on and beneath the surface. The compartment is within the Rose City oil & gas field. The field is still active but is undergoing secondary recovery operations. New development wells are unlikely. All State-owned mineral rights in the compartment are currently leased and held by production.

**Vehicle Access:**

Vehicle access in the compartment is good. There are numerous roads throughout the whole compartment.

**Survey Needs:**

None at this time

**Recreational Facilities and Opportunities:**

Ambrose to Rose City MCCCT/ ATV trail occurs in Section 29 and 32. The Designated Snowmobile Trail 6 occurs in sections 27,38,32,and 33. The complexity of roads offer easy dispersed recreation opportunities on and off the trails. Hunting and camping is popular for game species from the mixed habitat.

**Fire Protection:**

Most of this compartment is mixed upland aspen and hardwoods that may not produce huge threats for extreme fire behavior. West of this compartment lies large amounts of jack pine. There is hilly terrain that may be difficult to operate equipment. There is oil and gas infrastructure within the compartment that can produce issues or hazards while suppressing wildfires.

**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**

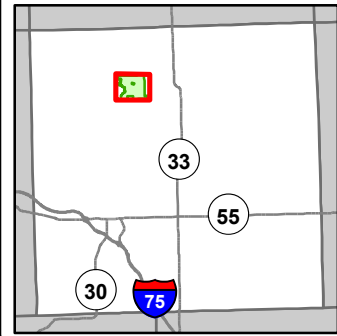
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

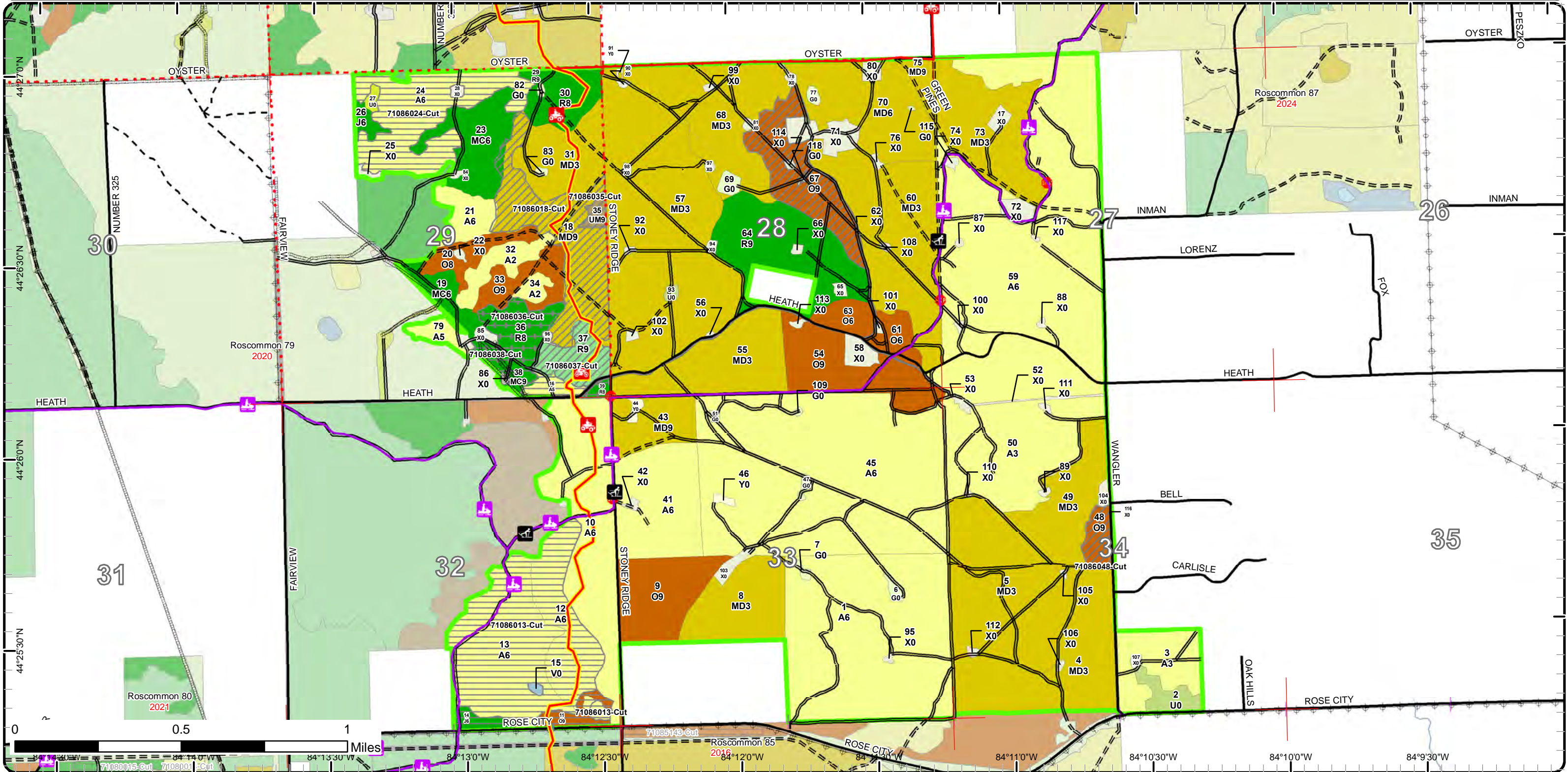


# Cover Type & Treatments Map

Compartment: 86  
 T24N, R02E, Sec. 27-29, 32-34  
 County: Ogemaw  
 Unit: Roscommon  
 Mgmt Area: Ogemaw Hills  
 YOE: 2023  
 Acres: 2412 GIS Calculated  
 Examiner: Brian Martell  
 Map Revised: 4/11/2022  
 Map Phase: Post-Review



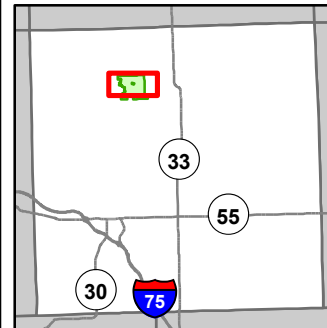
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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- Michigan Cross Country Cycle Trail (MCCCT)
- Culvert
- Sign
- Intermittent Stream
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- 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
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 710 - Sand/Soil
- 790 - Other Bare/Sparse Vegetated



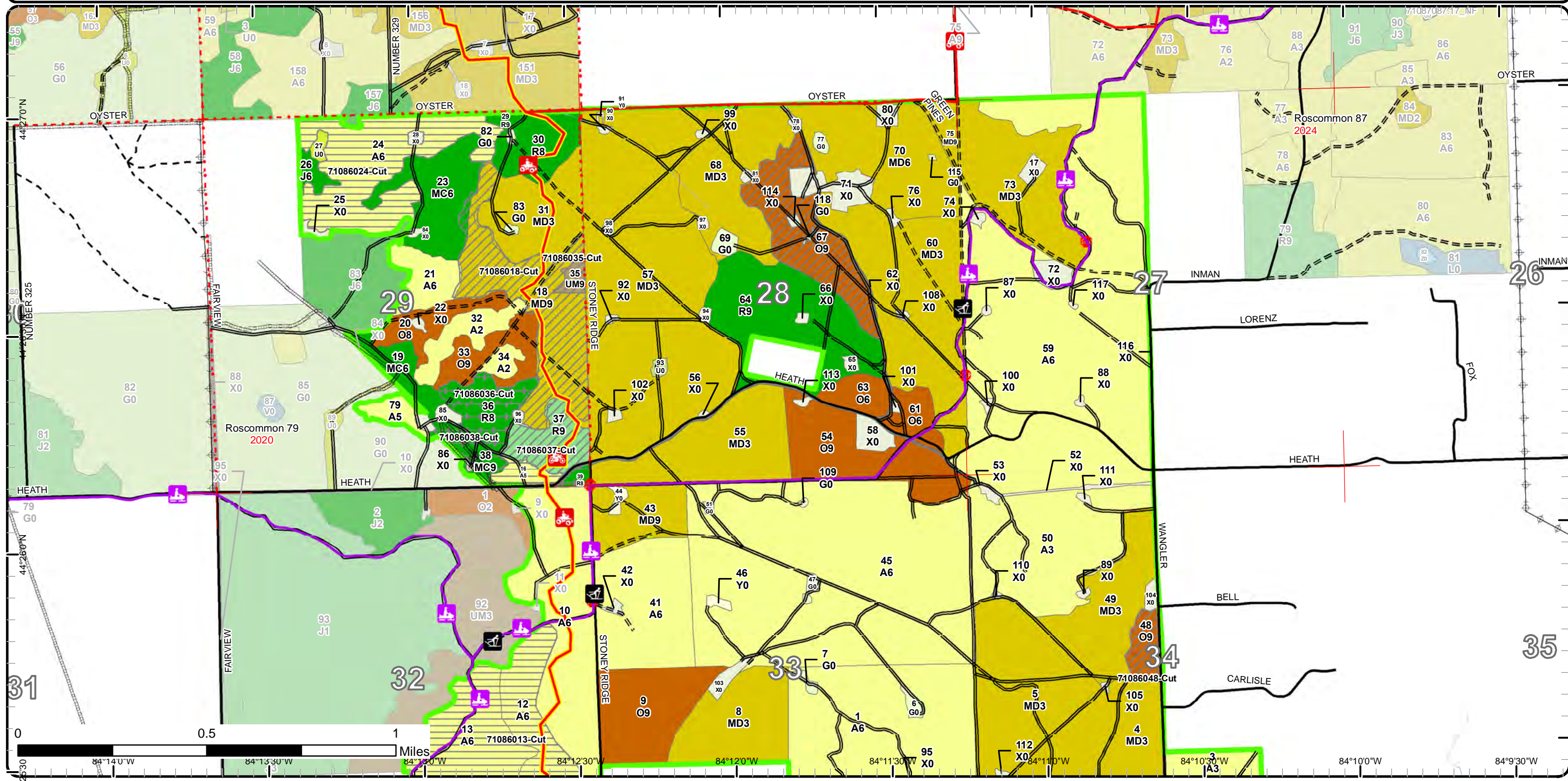


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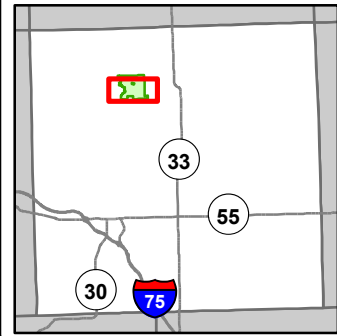
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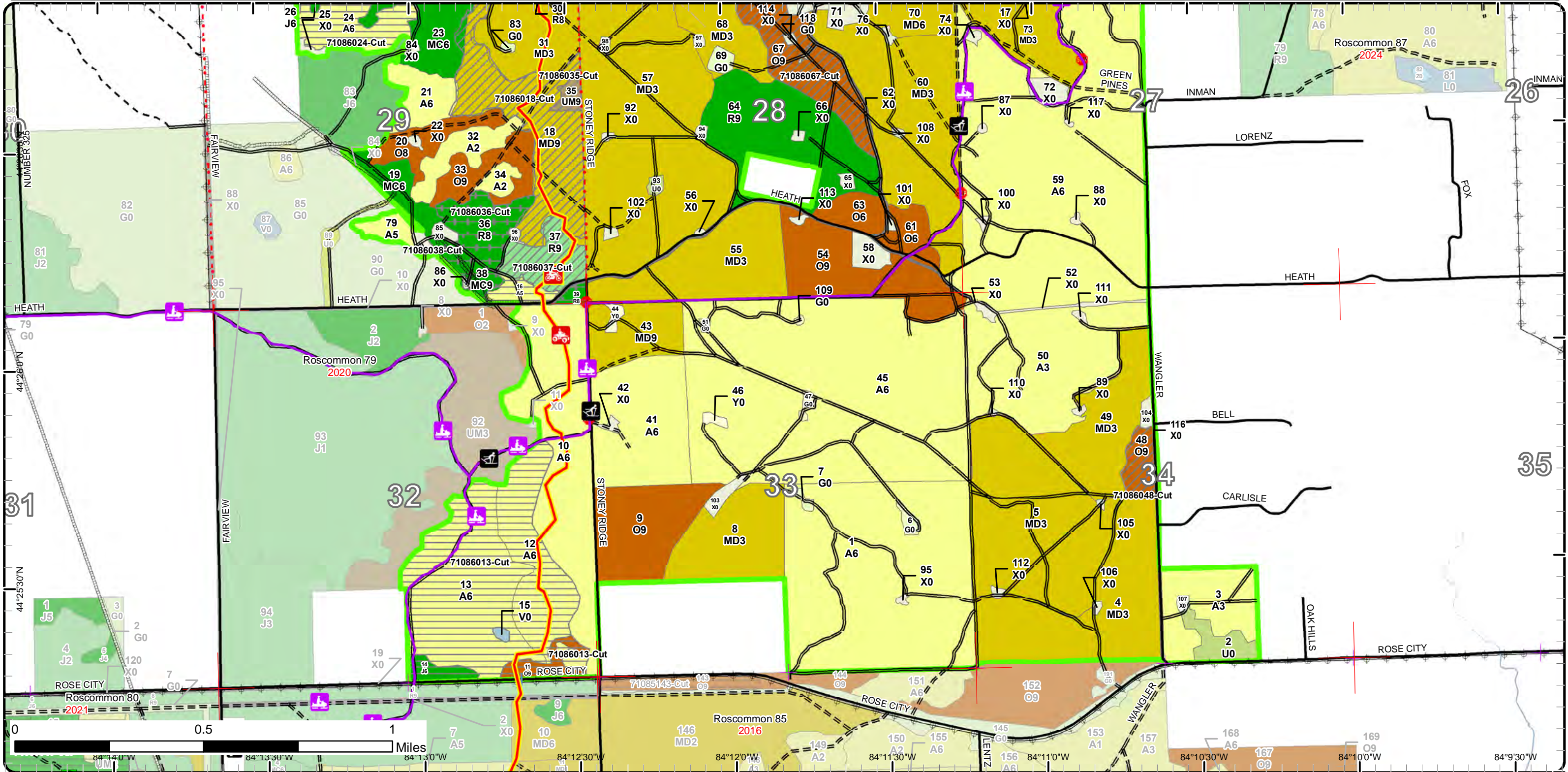


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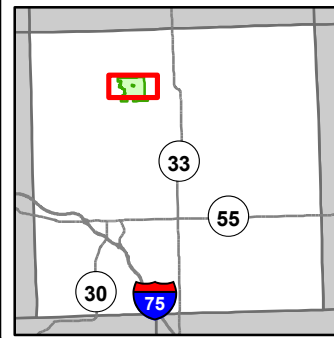
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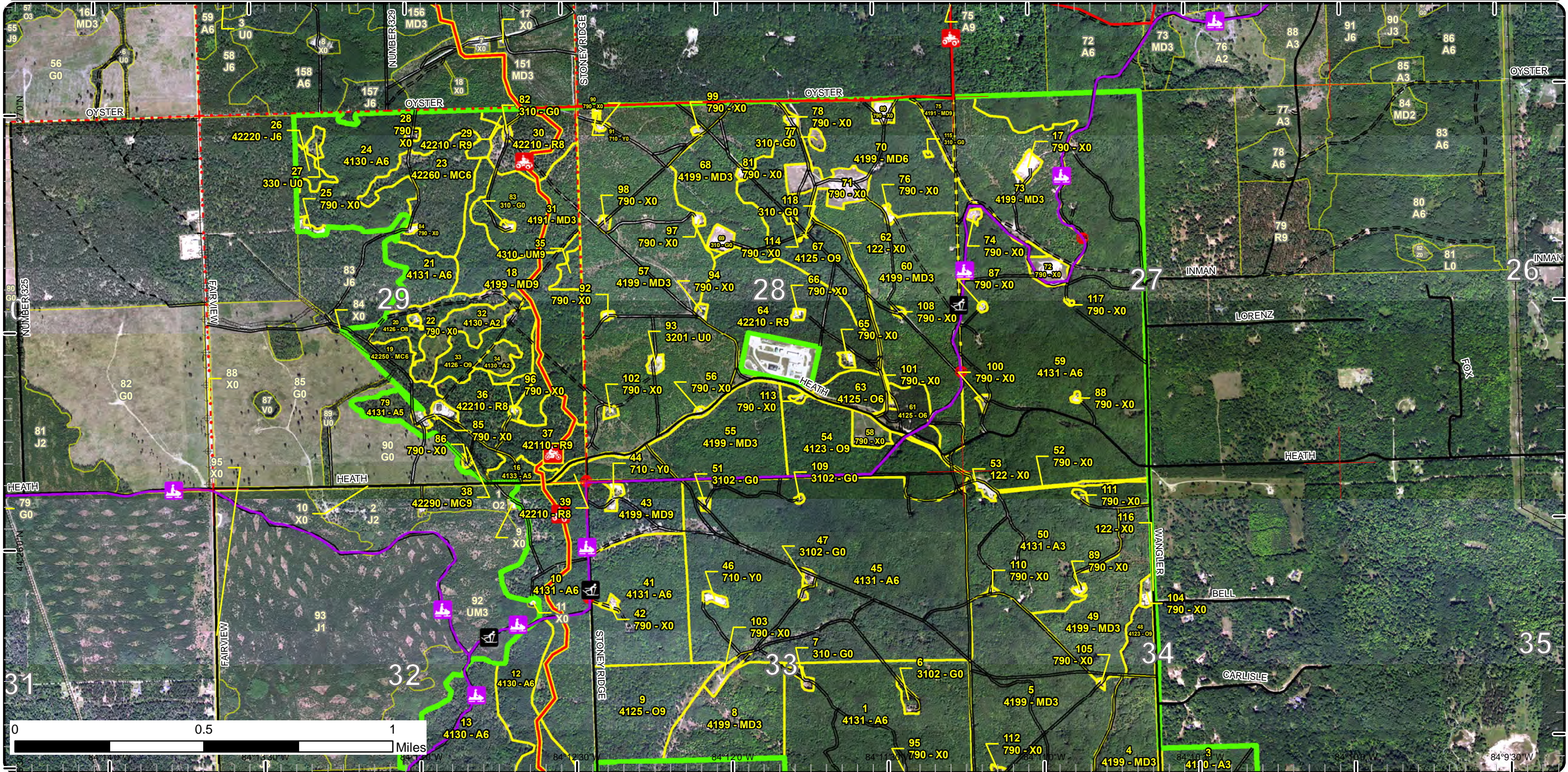


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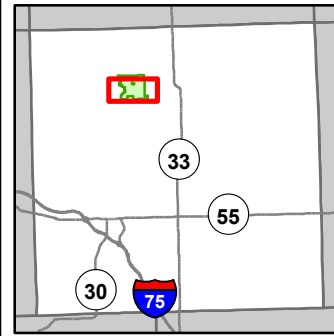
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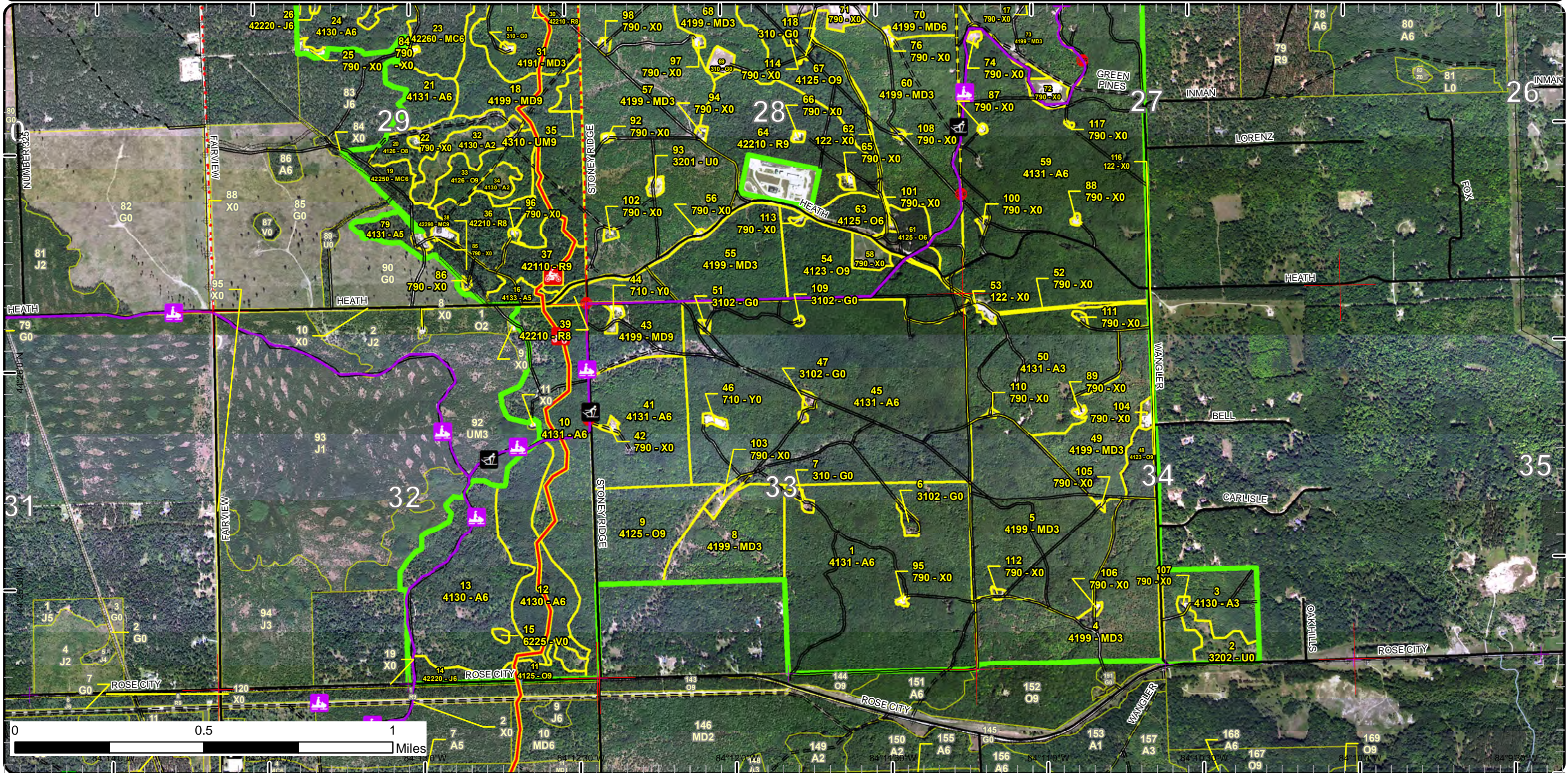


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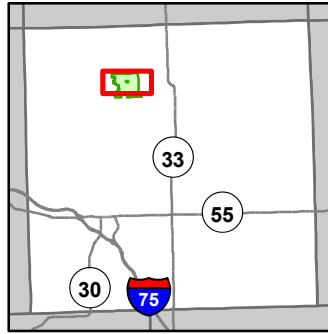
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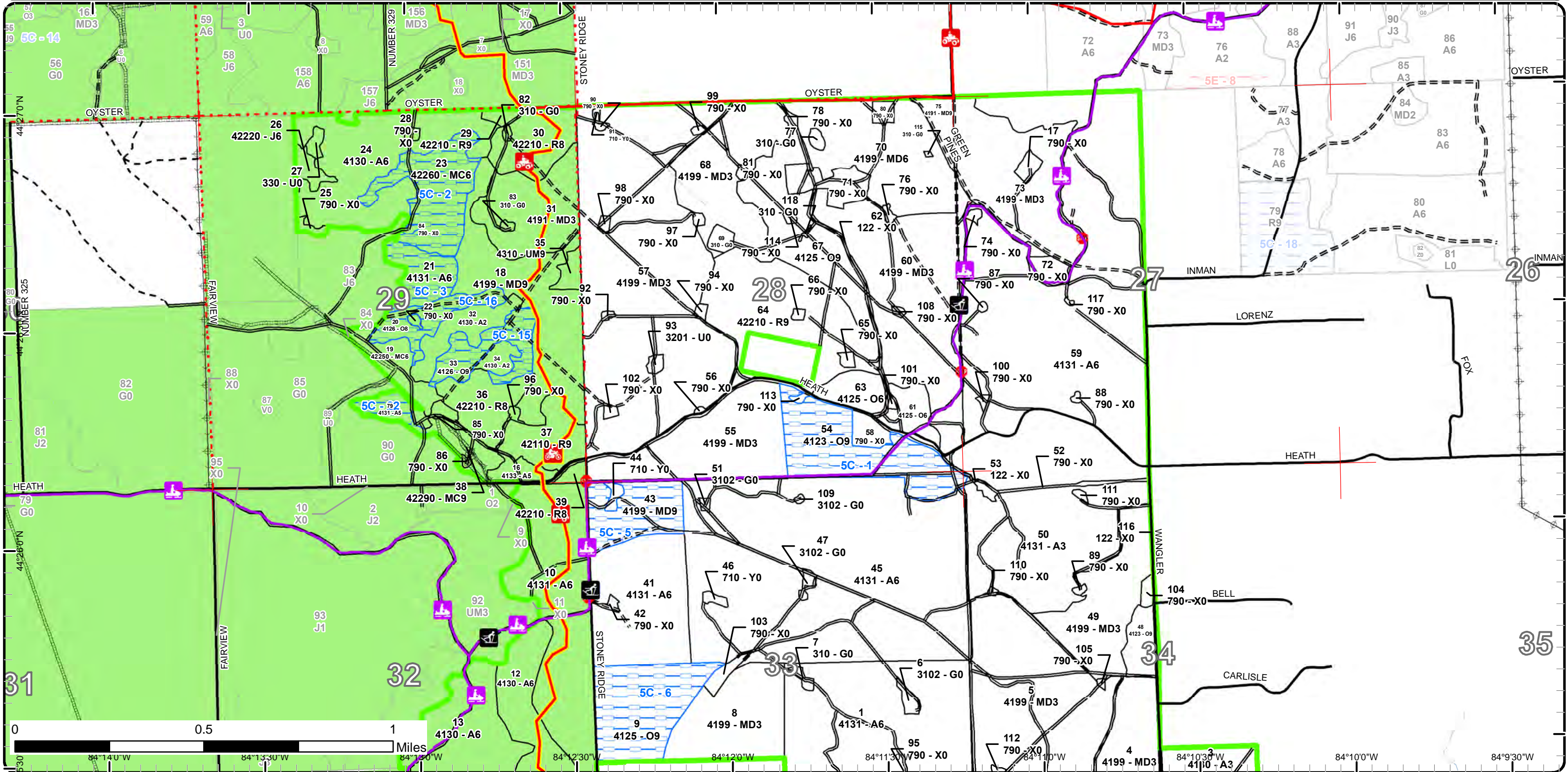


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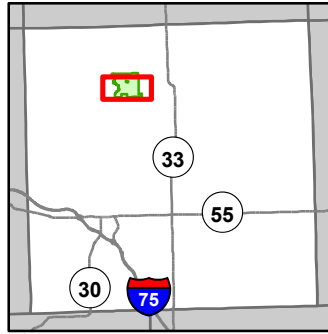
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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- Kirtland Warbler Habitat



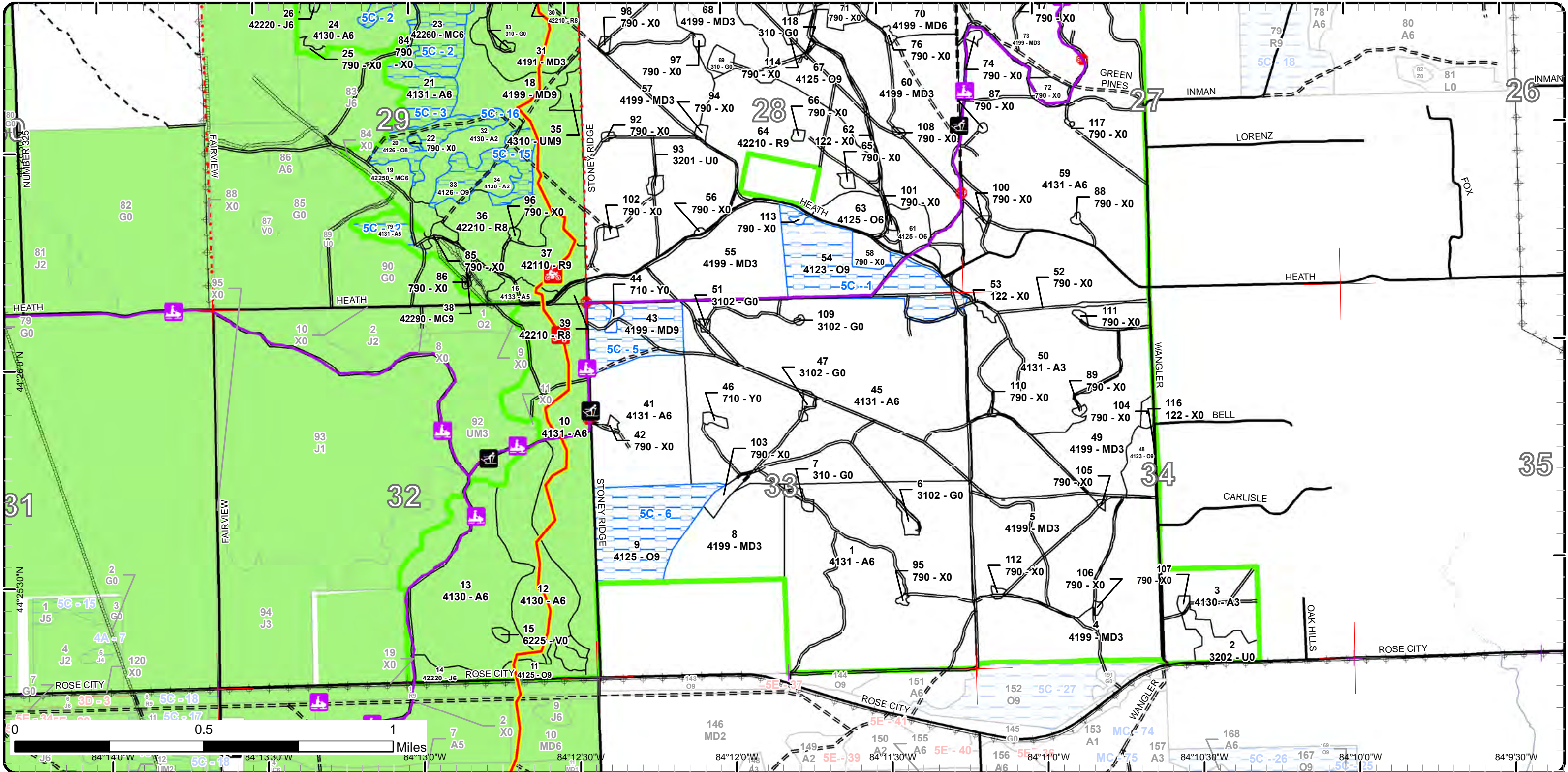


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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- Kirtland Warbler Habitat
- Cold Water Streams





Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	48	489	134	223	200	0	0	0	5	0	0	0	0	0	0	0	1099
Bare/Sparsely Vegetated	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Jack Pine	0	0	0	0	0	0	4	0	6	0	0	0	0	0	0	0	0	0	10
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	444	255	56	0	0	0	7	0	56	0	0	0	0	24	0	0	842
Natural Mixed Pines	0	0	0	0	0	0	45	0	0	0	9	0	0	0	0	0	0	0	54
Oak	0	0	0	0	10	0	10	0	0	0	91	79	0	0	0	0	0	0	189
Red Pine	0	0	0	0	0	0	41	58	0	0	20	0	0	0	0	0	0	0	118
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
<b>Total</b>	<b>96</b>	<b>0</b>	<b>492</b>	<b>744</b>	<b>200</b>	<b>223</b>	<b>300</b>	<b>58</b>	<b>13</b>	<b>0</b>	<b>185</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>2412</b>





## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2023

Acres of Harvest

Compartment 86  
Total Compartment Acres: 2,412

Commercial Harvest - 353  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	183	0	0	0	0	0	0	0	0	183
Jack Pine	6	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	58	0	0	0	58
Natural Mixed Pines	0	0	0	0	0	0	9	0	0	9
Oak	8	0	0	0	0	48	0	0	0	56
Red Pine	0	0	0	0	0	17	20	0	0	37
Upland Mixed Forest	0	0	0	0	0	4	0	0	0	4
<b>Total</b>	<b>197</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>127</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>353</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	353	0	0	0	0	0	0	0	0	353
Next Step	0	0	0	0	0	0	197	0	0	197
<b>Total</b>	<b>353</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>197</b>	<b>0</b>	<b>0</b>	<b>550</b>





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>11</b>	<b>71086011-Cut</b>	8.3	4125 - Black, N. Pin Oak	Sawtimber Well	90	51-80	Harvest	Clearcut	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches DBH and larger. Mark a handful of healthy, large-crowned oaks for hard mast. Leave no retention due to small stand size. Include ATV trail protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of oak, red maple, and aspen to a fully stocked stand.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>13</b>	<b>71086013-Cut</b>	117.6	4130 - Aspen	Poletimber Well	55	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches DBH and larger. Leave about 3-10% retention including buffering the bog as necessary for BMP's. Take aesthetics from the snowmobile trail and Rose City Road into consideration when leaving retention. Mark a few large white oak to leave in stand 12. Include drumming log, snowmobile trail protection, and atv trail protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked stand of aspen mixed with some oak, maple, and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>14</b>	<b>71086014-Cut</b>	5.7	42220 - Natural Jack Pine	Poletimber Well	79	81-110	Harvest	Clearcut	4310 - Pine, Oak Mix	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches DBH and larger. No retention due to small stand size. Leave jack pine tops scattered. Include snowmobile trail protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked stand of jack pine and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											





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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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<b>16</b>	<b>71086016-Cut</b>	5.8	4133 - Aspen, Mixed Pine	Poletimber Medium	92	81-110	Harvest	Clearcut	4131 - Aspen, Oak	Even-Aged	No
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Prescription Final harvest all species to 2 inch. The stand is small in size and would not warrant any retention. Place a drumming log spec.  
Specs:

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

Acceptable Regen: Mix of aspen and oak to full stocking

Other Comment: ORV trail bisects stand. The aspen is old and may tend to blow over so do not leave buffer along trail. Cut stumps flush and implement protection specs.

Site Condition

Proposed Start Date: 10/1 /2017

<b>18</b>	<b>71086018-Cut</b>	58.3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	92	141-170	Harvest	Crown Thinning	4121 - Oak, Aspen	Two-Aged	No
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Prescription Remove all aspen to 2 inch d.b.h.. Mark to thin the remaining overstory to a 70-90 basal area managing for best tree in place and to open under some regeneration gaps.  
Specs:

Next Step  
Treatments:

Acceptable Regen:

Other Comment: Will need ORV trail protection specs.

Site Condition

Proposed Start Date: 10/1 /2017

<b>24</b>	<b>71086024-Cut</b>	59.7	4130 - Aspen	Poletimber Well	56	171-200	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all species 2 inches DBH and larger. Leave standard area retention focusing on leaving areas in the middle of the stand that are heavy to oak poles. Include drumming log specs and oil/gas specs.  
Specs:

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

Acceptable Regen: Fully stocked stand of aspen with other deciduous species such as red maple and oak.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>35</b>	<b>71086035-Cut</b>	3.6	4310 - Pine, Oak Mix	Sawtimber Well	97	111-140	Harvest	Crown Thinning	4221 - Natural Red Pine	Uneven-Aged	No
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Prescription Remove all jack pine and mark older red pines and create regeneration gaps for oaks by removing poorly formed trees so at the same time looking for best trees in place. Looking for a residual basal area to be between 70 and 90.  
Specs:

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2017





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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36	71086036-Cut	18.1	42210 - Natural Red Pine	Sawtimber Medium	92	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Cut all trees 4 inches DBH and larger. Protect existing sapling and seedling regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak with other mixed deciduous species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

37	71086037-Cut	17.1	42110 - Planted Red Pine	Sawtimber Well	57	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Remove about 1/3 of red pine volume. Focus on removing suppressed and poor formed trees. Try to leave aspen where possible so as to not create regeneration to deal with in the future. Include ATV trail protection specs and consider including oak wilt restrictions because of the heavy oak understory.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

38	71086038-Cut	8.8	42290 - Natural Mixed Pine	Sawtimber Well	94	81-110	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Cut all species 5 inches DBH and larger, except for jack pine. Cut all jack pine 2 inches DBH and larger. Spread jack pine tops to spread the seed. Protect sapling and seedling understory.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak with other mixed deciduous and pine species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

39	71086039-Cut	2.1	42210 - Natural Red Pine	Sawtimber Medium	92	111- 140	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all species 4 inches DBH and larger. No retention due to small stand size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, mixed deciduous, mixed pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											





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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
<b>48 71086048-Cut</b>	8.6	4123 - Red Oak	Sawtimber Well	96	111- 140	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Thin to approximately 70-90 sq. ft. Remove suppressed and poor formed trees, then mark for spacing to release nice red oak logs and straight red maple poles. Remove nice log bigtooth aspen and leave poorer quality or rotting ones. Make sure not to open up areas of aspen too much so sprouting is limited.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>67 71086067-Cut</b>	39.3	4125 - Black, N. Pin Oak	Sawtimber Well	103	111- 140	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Thin down to approximately 70-90 sq. ft. Remove suppressed and poor formed trees first, then mark for spacing to release nice oak saw logs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Total Treatment** 353  
**Acreage Proposed:**



## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

Compartment: 86  
 Year of Entry: 2023

### Availability for Management

Total Acres    Acres Available    **Acres Avail With Condition**    Acres Not Available

### Dominant Site Conditions 5C

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	5C
1098	1077	<b>21</b>	0	Aspen	<b>21</b>
55	55	<b>0</b>	0	Bare/Sparsely Vegetated	<b>0</b>
1	1	<b>0</b>	0	Bog	
10	10	<b>0</b>	0	Herbaceous Openland	
10	10	<b>0</b>	0	Jack Pine	
2	2	<b>0</b>	0	Low-Density Trees	
842	818	<b>24</b>	0	Mixed Upland Deciduous	<b>24</b>
54	21	<b>33</b>	0	Natural Mixed Pines	<b>33</b>
190	76	<b>114</b>	0	Oak	<b>114</b>
119	119	<b>0</b>	0	Red Pine	
3	3	<b>0</b>	0	Sand, Soil	
4	4	<b>0</b>	0	Upland Mixed Forest	
10	10	<b>0</b>	0	Upland Shrub	
15	15	<b>0</b>	0	Urban	
<b>2,412</b>	<b>2,220</b>	<b>192</b>		Total Forested Acres	<b>192</b>
	92%	<b>8%</b>	0%	Relative Percent	

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was just thinned in 2020. Delay treatment to allow stand to benefit from the thinning.							
2	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Allow the jack pine, oak, and maple to grow into larger size classes before harvesting.							



## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

Compartment: 86  
 Year of Entry: 2023

3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Allow more of the red maple, oak, and aspen to grow into the log size class.							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Allow for more of the red maple and aspen to grow into the log size class before harvesting, as long as the oak will hold.							
16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Roscommon Mgt. Unit

Brian Martell : Examiner

Compartment: 86

Year of Entry: 2023

22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Allow aspen to grow into larger size classes.							



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

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### 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	4131 - Aspen, Oak	Poletimber Well	154.5	28	Immature	N/A	Stand was regenerated in 1994 and is just entering pole size.																																													
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2	3202 - Autumn Olive/Honeysuckle	Nonstocked	9.2		Unspecified	No	Mostly open grass. Autumn olive is established and becoming more so. Several large open holes, appear to be old borrow pits. Large log trees around edges.																																													
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3	4130 - Aspen	Sapling Well	30.0	18	Immature	N/A	Stand was cut in 2004 and early 2005 as a part of sale 71-026-03 Block 1131.																																													
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4	4199 - Other Mixed Upland Deciduous	Sapling Well	71.4	17	Immature	N/A	Final harvested in 2005.																																													
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5	4199 - Other Mixed Upland Deciduous	Sapling Well	93.0	28	Immature	N/A	Stand was cut in 1994. Stand is almost to pole size but overall still under 5 inch average.																																																					
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6	3102 - Grass	Nonstocked	1.8				Inactive well. Cover is mostly grass and knapweed.																																																					
7	310 - Herbaceous Openland	Nonstocked	1.2				Old well site, EGLE records say was plugged but did not give a date. Well was from 1948. Cover is mostly grass and knapweed.																																																					
8	4199 - Other Mixed Upland Deciduous	Sapling Well	39.9	28	Immature	N/A	Stand was regenerated in 1994. Old drilling platform in north part of stand.																																																					
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9	4125 - Black, N. Pin Oak	Sawtimber Well	39.9	109	81-110	N/A	Quality of the black oak/red oak ranges from poor to good. Oak regen is present the seedlings are of various height. Scattered red pine poles, logs, and saplings. Pockets of bigtooth aspen. Illegal ATV trail in stand.																																																					
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10	4131 - Aspen, Oak	Poletimber Well	80.6	34	51-80	N/A	Nice mix of aspen and oak stump sprouts. Just entering pole timber size. The north end of the stand has larger diameter trees than south.																																																					
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11	4125 - Black, N. Pin Oak	Sawtimber Well	7.6	90	51-80	N/A	Poor quality oak along Rose City Rd.																																																		
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12	4130 - Aspen	Poletimber Well	42.1	55	81-110	N/A	Decent bigtooth aspen stand with hybrid and white oak super canopy trees present. Stand appears to be of fire origin as fire scars are evident on old oaks.																																																		
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13	4130 - Aspen	Poletimber Well	76.2	55	51-80	N/A	Quaking aspen pole timber stand with oak and pin cherry understory. Small area of saw sized oak around an opening in the middle of the stand.																																																		
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14	42220 - Natural Jack Pine	Poletimber Well	5.7	79	81-110	N/A	Small stand of jack pine pole timber mixed with poor quality oak.																																																		
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15	6225 - Bog	Nonstocked	0.8			No																																																			
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16	4133 - Aspen, Mixed Pine	Poletimber Medium	5.3	92	81-110	N/A	This is an aspen stand that was underplanted with red pine. The red pine was thinned in 2002. The red pine is deformed and stunted because of the aspen overstory. There is good aspen and oak regeneration in the understory so recommend cutting it and letting it come back to an oak/aspen mix.																																																		
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17	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.2	0			oil/gas infrastructure																																																		



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<b>18</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	56.2	92	141-170	N/A	Mix of young and old oak due to wildfire with a good component of aspen with several pockets of pure aspen clones. Also a good mix of oak regeneration spread throughout the understory with some pockets of heavy red maple regen.. Propose a thinning.																																																				
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<b>19</b>	42250 - Pine, Oak	Poletimber Well	12.4	56	81-110	N/A	Mixed stand with jack pine regenerated from a wildfire and larger oaks and red pine that survived the fire. Good oak and jack pine regeneration in the mid-canopy.																																																				
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Red Pine	Low	Variable	Sapling																																																								
<b>20</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	13.7	92	51-80	N/A	Large crowned oaks. The oak regeneration is being browsed hard.																																																				
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<b>21</b>	4131 - Aspen, Oak	Poletimber Well	14.7	56	81-110	N/A	Two-aged stand as the result of a wildfire. The larger oaks survived the fire while the aspen is resulting regeneration of it.																																																				
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<b>22</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.6				oil & gas infrastructure well pad																																																				





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23	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	32.6	56	111-140	N/A	Two-aged stand but mostly around 50 year old jack pine, maple, and oak regenerated from a wildfire. The older oaks and red pine are survivors of the fire. Most of the maple and oak are stump sprouts.																																																													
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24	4130 - Aspen	Poletimber Well	59.7	56	171-200	N/A	Stand resulting from wildfire. Sawlog class aspen is at the clone epicenters and then decreases in size and quality as it spreads out. There are pockets of poor quality oak and maple in between aspen clones. The stand edges have some log sized oak.																																																													
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25	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.3				Valve station																																																													
26	42220 - Natural Jack Pine	Poletimber Well	4.2	56	51-80	N/A	Jack pine stand originated from a wildfire.																																																													
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27	330 - Low-Density Trees	Nonstocked	1.7		Unspecified	No	Grassy opening with bushy jack pine. There is evidence that this may have been a well site in the past. There is a 6 inch line running on west edge.																																																													
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28	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9				Well pump site																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
29	42210 - Natural Red Pine	Sawtimber Well	2.2	56	141-170	N/A	Wildfire impacted stand.																																														
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30	42210 - Natural Red Pine	Sawtimber Medium	20.5	56	51-80	N/A	Stand was treated in the spring of 2000 by removing all species but red pine. This resulted in some areas very sparse of regeneration such as on the west side to areas very heavy to oak regeneration. The red pine ranges from 50 sqft BA in the north to as much as 160 sqft BA in portions of south part of the stand.																																														
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31	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	34.6	22	1-50	N/A	Stand was cut in the spring of 2000 - all species except red pine were cut. Good regeneration of oak and aspen.																																														
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32	4130 - Aspen	Sapling Medium	13.5	12	Immature	N/A	Final harvest winter 2010/2011. Sawlog sized oak were left scattered.																																														
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33	4126 - White, Black, N. Pin Oak	Sawtimber Well	17.0	92	81-110	N/A	Mix of young and old oak due to wildfire. Very good oak all over the understory. Some red maple here and there. Scattered pine also.																																														
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<b>34</b>	4130 - Aspen	Sapling Medium	4.3	12	Immature	N/A	Final harvest in the winter 2010/2011. Scattered log red pine left.																																															
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<b>35</b>	4310 - Pine, Oak Mix	Sawtimber Well	3.6	97	111-140	N/A	Lots of younger age class species under an older red pine stand as the result of a wildfire in 1966. Recommend a thinning to open up some regeneration gaps and remove some of the larger red pines. Bring the basal area down to a 70-90 basal area.																																															
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<b>36</b>	42210 - Natural Red Pine	Sawtimber Medium	18.3	92	1-50	N/A	All species but red pine and aspen removed summer 2002. There is very dense oak and maple regeneration.																																															
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<b>37</b>	42110 - Planted Red Pine	Sawtimber Well	17.7	57	111-140	N/A	Third row thinned in the Summer 2002. Stand is at the low end of canopy coverage as there are some large open spots. There is heavy oak understory. There are some small aspen pockets that were not cut in 2002.																																															
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<b>38</b>	42290 - Natural Mixed Pine	Sawtimber Well	9.1	94	81-110	N/A																																																
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<b>41</b>	4131 - Aspen, Oak	Poletimber Well	53.3	37	1-50	N/A	Stand was clearcut in 1985 and is mostly aspen and oak that is just getting into pole size.																																																								
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<b>42</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9				Active oil well site.																																																								
<b>43</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	24.2	141	81-110	N/A	Mixed upland, oak and aspen stand. A ridge runs east to west through the central part of the stand. The trees are poorer quality to the east. There is more witch hazel on the south side. Pockets of red pine saplings. White oak seedlings are throughout the understory, in some locations very dense. It looks as if the red maple was cut about 1986. There is trace jack pine and white pine to the west and bigtooth aspen seedlings at random.																																																								
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<b>44</b>	710 - Sand, Soil	Nonstocked	1.6			No	Scattered black cherry and red pine. Illegal ORV scramble area.																																																								
<b>45</b>	4131 - Aspen, Oak	Poletimber Well	222.6	48	81-110	N/A	Scattered super canopy black oak, red oak and white oak. Hilly terrain in some spots.																																																								
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46	710 - Sand, Soil	Nonstocked	1.1				Active oil well.																																																	
47	3102 - Grass	Nonstocked	1.2				Inactive oil well.																																																	
48	4123 - Red Oak	Sawtimber Well	8.6	96	111-140	N/A	Decent oak stand. There are trace amounts of dead ash in the NE corner of the stand.																																																	
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49	4199 - Other Mixed Upland Deciduous	Sapling Well	40.9	17	Immature	N/A	Stand was cut in 2005.																																																	
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50	4131 - Aspen, Oak	Sapling Well	74.4	28	Immature	N/A	Stand was clearcut in 1994. It is almost to pole sized as a whole and some areas are already there. The stand has some hills that are extremely steep and inoperable. There are some illegal hill climbs in the south end of the stand.																																																	
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51	3102 - Grass	Nonstocked	0.6				oil/gas infrastructure																																																	
52	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.8				Active well pad and pipeline. RDR site with illegal hill climbs surrounding.																																																	
53	122 - Road/Parking Lot	Nonstocked	6.9			No	Road, sand and gravel.																																																	
54	4123 - Red Oak	Sawtimber Well	43.3	93	111-140	N/A	Nice red oak stand. Grade oak both single and double stems. Appears that aspen and red maple were removed 30-40 years ago. Stand thinned in 2020																																																	
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<b>55</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	42.3	28	Immature	N/A	Stand was regenerated in 1994 is now upland mix. East side hillier and higher elevation and quality of trees increases.																																																	
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<b>56</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.3	0			oil/gas infrastructure active well
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<b>57</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	191.9	17	Immature	N/A	Stand was clearcut in 2005. Regeneration is mixed upland deciduous. Oak and aspen in concentrations creates variability in the canopy. Pipelines run throughout the stand.																																												
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<b>58</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	4.6				well pad.
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<b>59</b>	4131 - Aspen, Oak	Poletimber Well	260.0	28	Immature	N/A	Stand is made of several stands that were clearcut between 1994 and 1996. They have regenerated to a mix of aspen, oak, and red maple. Stand is right on the edge between sapling and pole size.																																																				
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60	4199 - Other Mixed Upland Deciduous	Sapling Well	85.2	17	Immature	N/A	Stand was clearcut in 2005 as a part of "Block 1120" 71-015-03-01.																																																			
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61	4125 - Black, N. Pin Oak	Poletimber Well	10.4	55	51-80	N/A	Poor quality oak. Oak and red maple seedlings becoming established in the understory.																																																			
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62	122 - Road/Parking Lot	Nonstocked	3.0			No	Road																																																			
63	4125 - Black, N. Pin Oak	Poletimber Well	9.8	31	Immature	N/A																																																				
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64	42210 - Natural Red Pine	Sawtimber Well	58.1	61	111-140	N/A	Natural red pine, mixed upland stand. The red pine is mostly open grown with large crowns and relatively short boles. Red maple poles, mainly stump sprouts. Scattered super canopy red pine.																																																			
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65	790 - Other Bare/Sparingly Vegetated	Nonstocked	0.9				old well pad																																																			



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66	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.6				oil/gas infrastructure active well																																														
67	4125 - Black, N. Pin Oak	Sawtimber Well	39.3	103	111-140	N/A	Stand was harvested in 1996 by removing all merchantable red maple and aspen. Stand is mostly decent healthy oak log trees. There is red maple understory that is dense in places with many stump sprouts.																																														
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68	4199 - Other Mixed Upland Deciduous	Sapling Well	45.3	28	Immature	N/A	Stand was clearcut in 1994. Above ground pipelines throughout the stand.																																														
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69	310 - Herbaceous Openland	Nonstocked	2.5				old well pad site																																														
70	4199 - Other Mixed Upland Deciduous	Poletimber Well	55.8	36	1-50	N/A	Stand was clearcut in the mid 1980's. Mixed upland. Canopy species not evenly distributed; there is more oak to the west and more apen to the east. Hilly terrain.																																														
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71	790 - Other Bare/Sparsely Vegetated	Nonstocked	10.5				Gas well pad and infrastructure																																														
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<b>73</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	55.0	16	Immature	N/A	Some areas heavier to oak, some heavier to aspen. Cut 05/06 as a part of sale "Block 1120" 71-015-03-01.																																																		
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<b>74</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.7				Well pad.																																																		
<b>75</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.6	78	81-110	N/A	Mixed upland stand located on steep slope. Majority of conifer located in the north part.																																																		
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<b>77</b>	310 - Herbaceous Openland	Nonstocked	1.1			No	Bowl-frost pocket.																																																		
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<b>79</b>	4131 - Aspen, Oak	Poletimber Medium	6.6	56	51-80	N/A	Poor quality stand. Aspen regeneration being browsed.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
81	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.6	0			oil/gas infrastructure well pad
82	310 - Herbaceous Openland	Nonstocked	0.5	0			oil & gas infrastructure
83	310 - Herbaceous Openland	Nonstocked	0.6	0			oil & gas infrastructure
84	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.5				Active well
85	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.9				Multiple well pumps, storage tanks, and above ground petroleum lines.
86	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.4				oil/gas infrastructure
87	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.4	0			oil/gas infrastructure active well
88	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.4	0			oil/gas infrastructure active well.
89	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.4	0			oil/gas infrastructure
90	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.4	0			oil/gas infrastructure 03277866
91	710 - Sand, Soil	Nonstocked	0.2	0		No	
92	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.4	0			oil/gas infrastructure well pad
93	3201 - Sweet Fern	Nonstocked	1.2	0			
94	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.7	0			oil/gas infrastructure
95	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.4	0			oil & gas infrastructure





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
96	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.7	0			oil well shed
97	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.6	0			active oil well
98	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.7	0			petroleum production site
99	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.5	0			Petroleum production site
100	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.5	0			oil/gas infrastructure
101	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.4	0			oil/gas infrastructure active well
102	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.7	0			oil/gas infrastructure
103	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.7	0			oil/gas infrastructure. Well was from 1948. EGLE records say well was plugged but did not give a date. Still some debris onsite.
104	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.5	0			oil/gas infrastructure.
105	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.3	0			oil/gas infrastructure
106	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.4	0			oil/gas infrastructure. Active well.
107	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.8		Immature		oil/gas infrastructure
108	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.5	0			oil/gas infrastructure
109	3102 - Grass	Nonstocked	0.3	0			inactive well pad. Well from 1945. Records say well was plugged but doesn't give a date when it was done.
110	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.3	0			oil & gas infrastructure



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
111	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.5	0			oil & gas infrastructure
112	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.6	0			oil/gas infrastructure
113	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.5	0			oil/gas infrastructure active well
114	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.6	0			oil/gas infrastructure
115	310 - Herbaceous Openland	Nonstocked	0.2	0			EGLC records show a well was drilled here but no dates of when it was done nor if it was plugged. No real evidence of anything on the ground besides the opening itself.
116	122 - Road/Parking Lot	Nonstocked	5.1	0		No	Wangler Road
117	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.2				oil/gas infrastructure
118	310 - Herbaceous Openland	Nonstocked	0.3	0			oil/gas infrastructure