



# Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71186

Entry Year 2019

Acreage: 1,350

County Ogemaw

Management Area: Kirtland's Warbler

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**Revision Date:** 2017-08-02

**Stand Examiner:** Jason Lewicki

**Legal Description:**

T23N, R01W Sections 20, 28, 29 and 33.

**Identified Planning Goals:**

The Kirtland's Warbler management area (MA) consists of fifteen units of land that are managed for the federally endangered Kirtland's warbler. Kirtland's warbler management is guided by two documents: Kirtland's Warbler Breeding Range Conservation Plan and Operational Plan for Kirtland's Warbler Habitat Management on Michigan State Forests. Of the 148,017 acres of state forest land that make up the Kirtland's Warbler management area, approximately 90,000 acres, most of the jack pine in the management area, have been identified as essential habitat where management is done in accordance with the Kirtland's Warbler Conservation Plan and Operational Plan. Management on the portion that is not classified as essential habitat will emphasize balancing the age classes of aspen and red pine and regenerating the aging oak resource. Management activities may be constrained or modified based on management recommendations described in the Conservation Strategy. Expected trends within this 10-year planning period are introduced pests and diseases and assuring jack pine regeneration on Kirtland's warbler sites.

**Soil and topography:**

Soils consist of Greycalm and Grayling sands.

The topography is very flat with the exceptions of the hills on the east side of the compartment.

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

There are some private land holdings within the area but it still dominated by State Ownership.

**Unique Natural Features:**

Kirtland's Warbler may be present within the Compartment.

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

There is a archeological site within the compartment.

**Special Management Designations or Considerations:**

Areas are designated Kirtland Warbler management areas.

**Watershed and Fisheries Considerations:**

None

**Wildlife Habitat Considerations:**

Maintain jack pine types in age classes as determined by the Kirtland's Warbler Recovery Plan to benefit Kirtland's warbler as well as other game and non-game species.

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

The nearest active sand/gravel pit is located four miles away, but significant portions of the compartment consist of uplands and there should be some potential for sand and gravel. The West Branch Field is located less than four miles to the south. Some unsuccessful wells have been drilled around the compartment. There are currently no active state mineral leases within the compartment. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

Vehicle access is very good throughout the compartment.

**Survey Needs:**

Possible survey needed for harvesting stand 11.

**Recreational Facilities and Opportunities:**

The Snowmobile Trail 69 occur within the compartment. This compartment is also heavily used for dispersed recreation such as hunting and gathering. Due to wheeled vehicle use on steep slopes resource damage areas are present. Continue to utilize forest management efforts to address resource damage areas.

**Fire Protection:**

This compartment has a high percentage of high hazard jack pine fuels.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

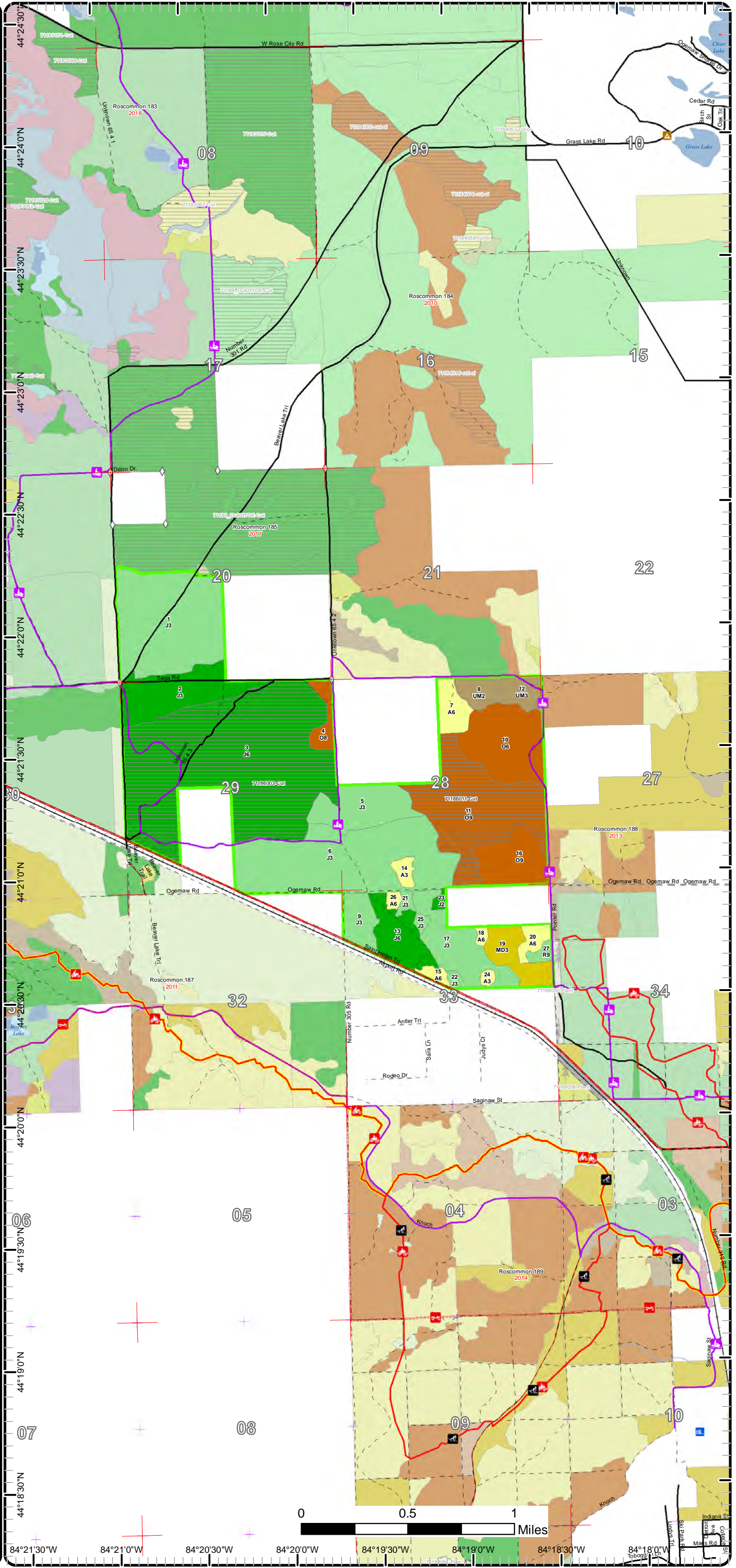
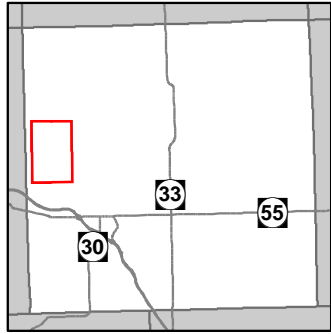
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

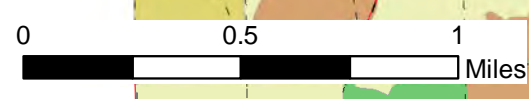
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 186  
 T23N,R01E, Sec. 20, 28-29, 33  
 County: Ogemaw  
 Unit: Roscommon  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2019  
 Acres: 1349.8 GIS Calculated  
 Examiner: Jason Lewicki  
 Map Revised: 8/2/2017  
 Map Phase: Review



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- MCCCT Trails
- ORV Trails
- ORV Routes
- Ski Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
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- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Active Railroads
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Clearcut (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- Lakes

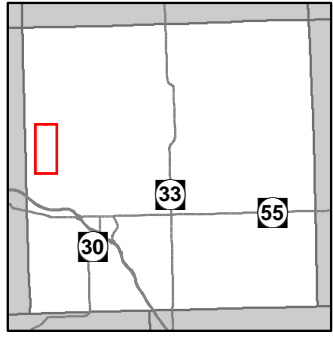


84°21'30"W 84°21'0"W 84°20'30"W 84°20'0"W 84°19'30"W 84°19'0"W 84°18'30"W 84°18'0"W  
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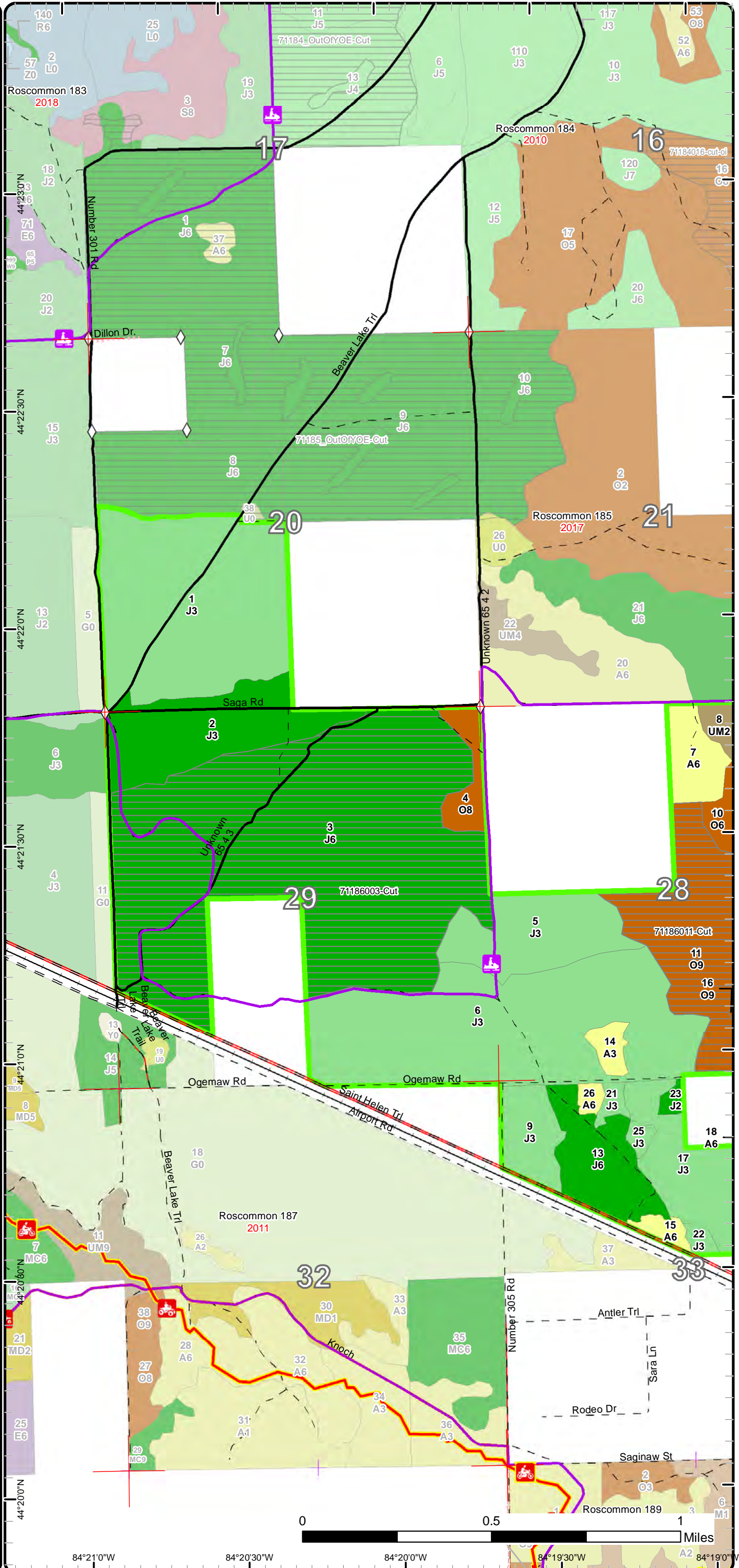


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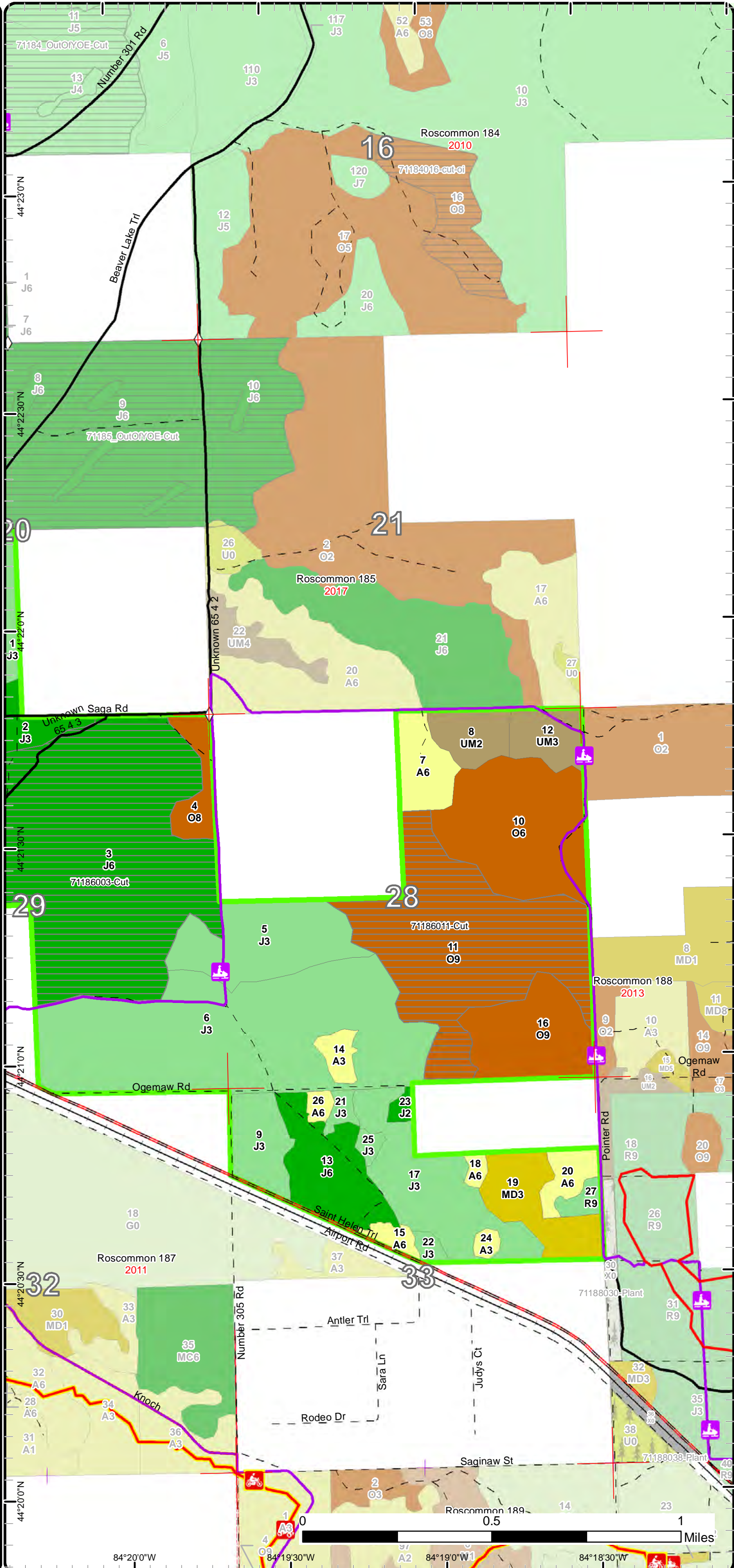
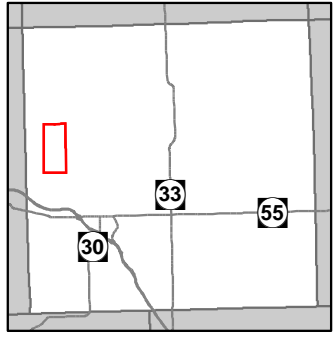
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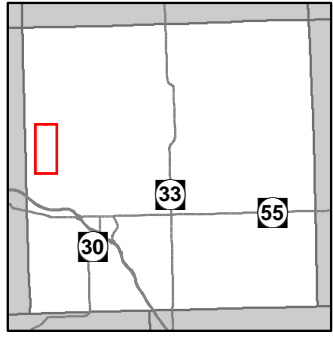


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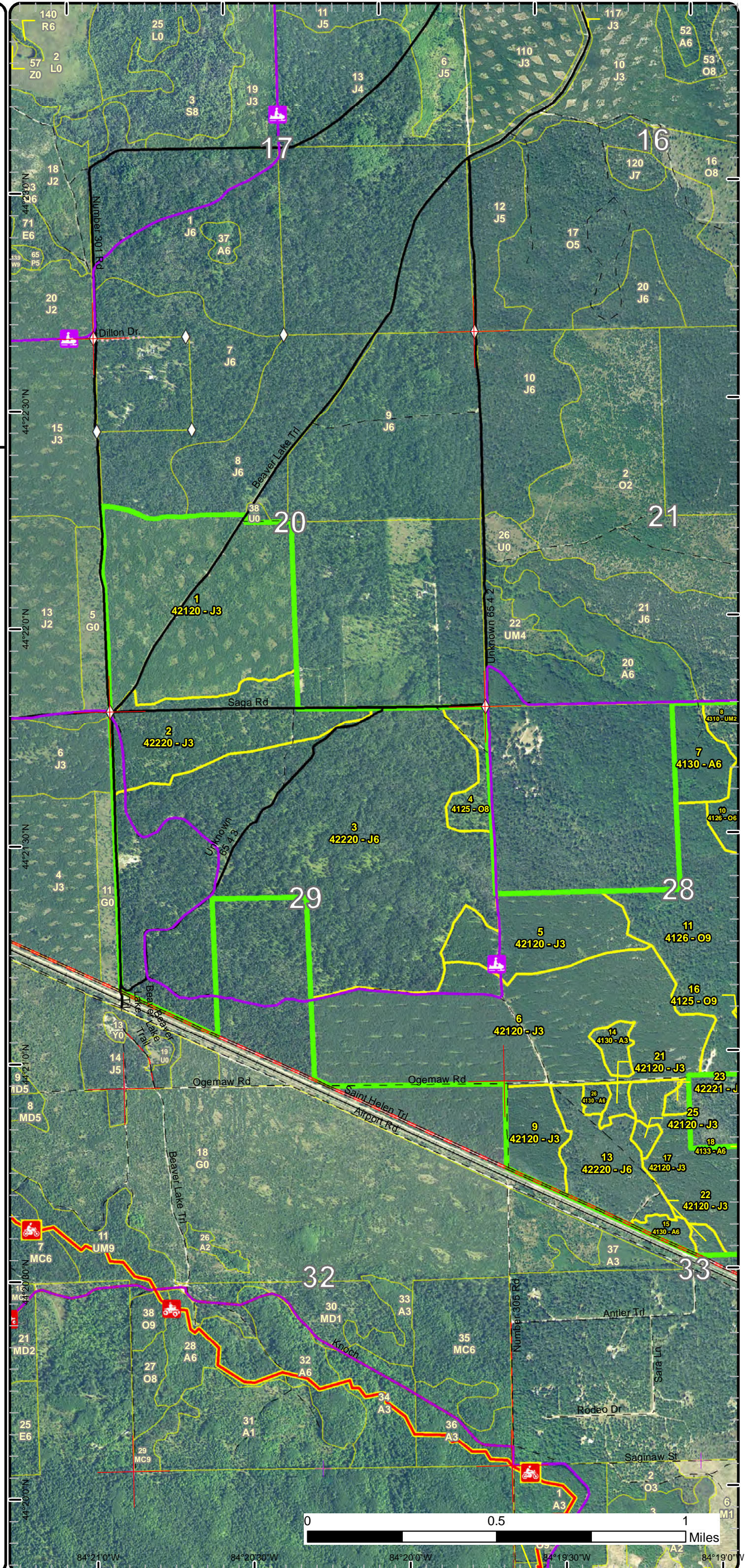


# Stand Boundary Map

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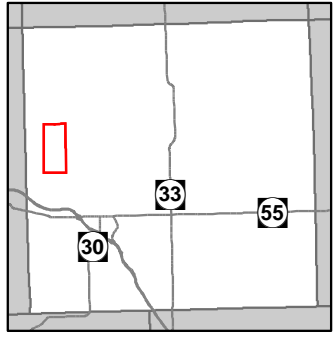
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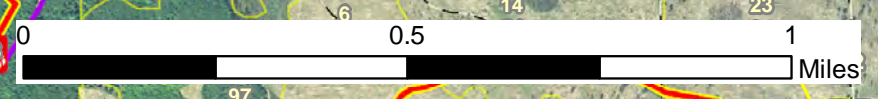
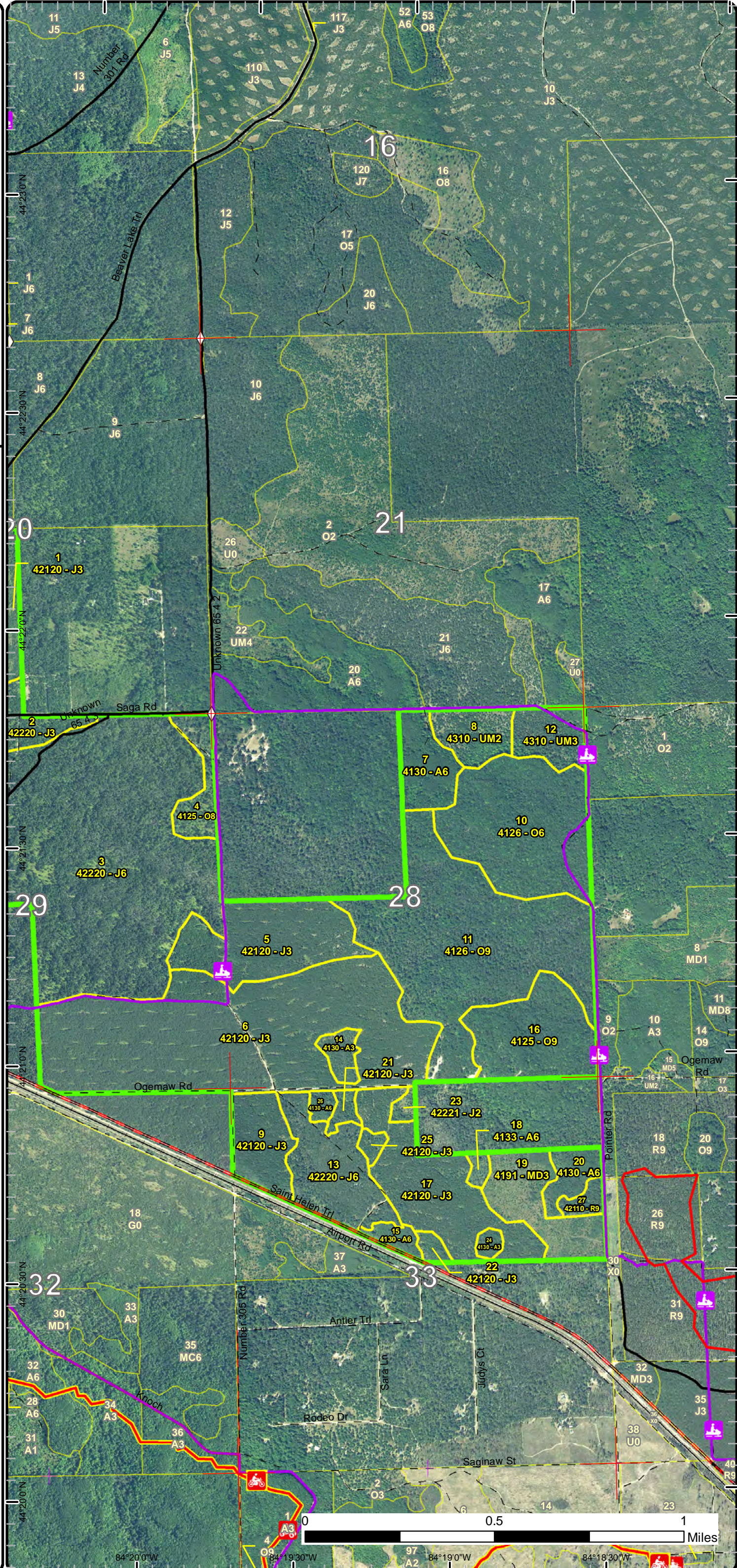


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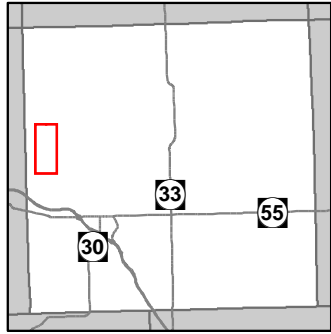


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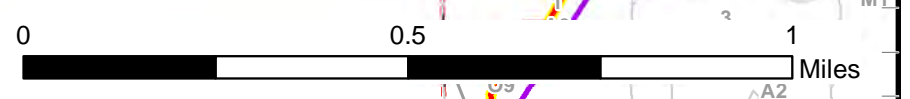
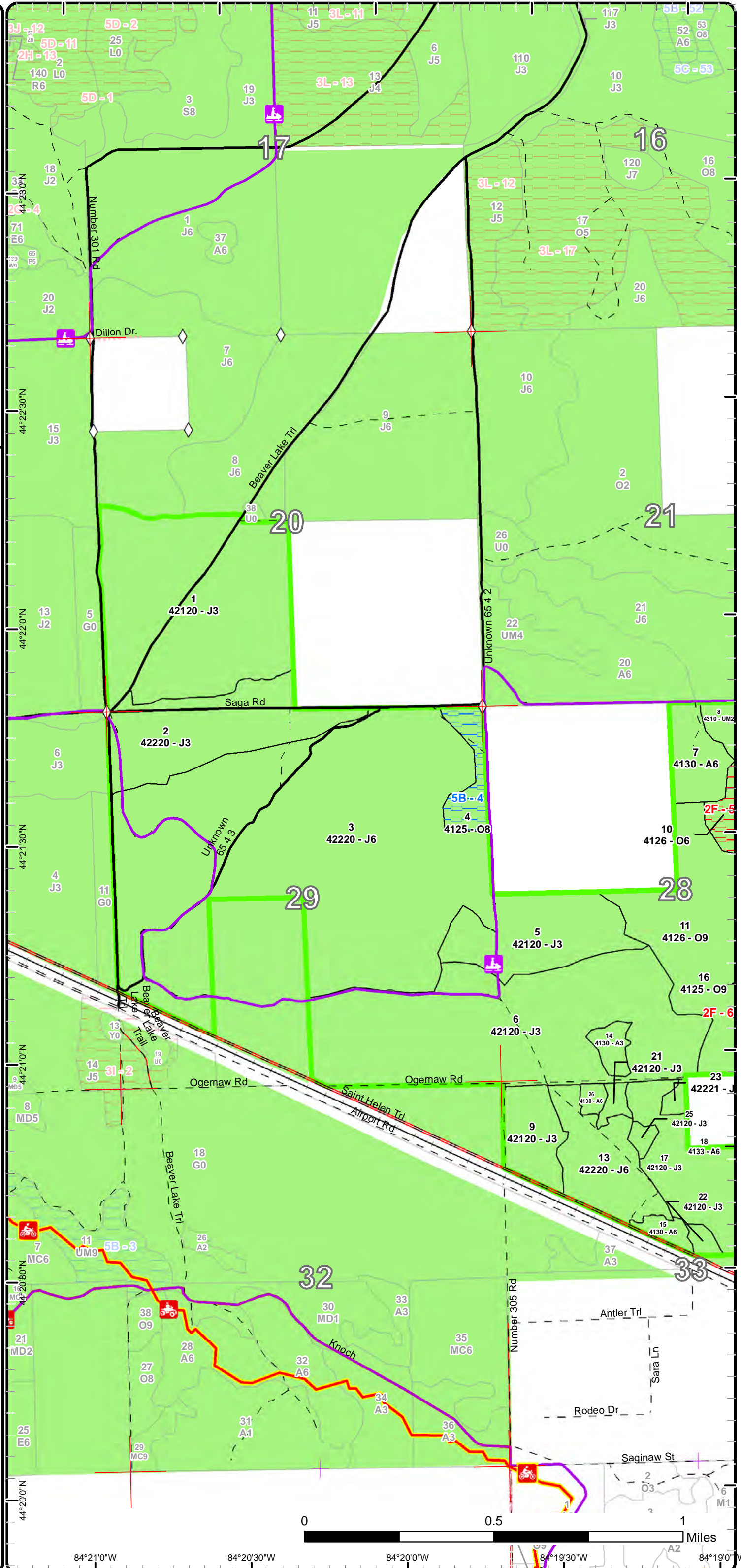


# Special Conservation Areas & Site Conditions Map

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- Available w/ Constraints
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- 5B: Maintain for regeneration purposes
- 2F: Too steep
- Stand Boundaries
- Kirtland Warbler Habitat

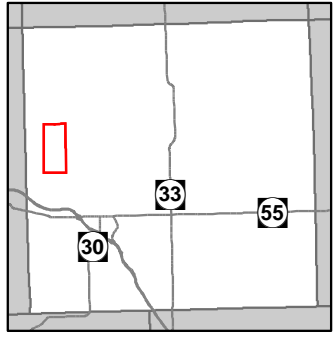


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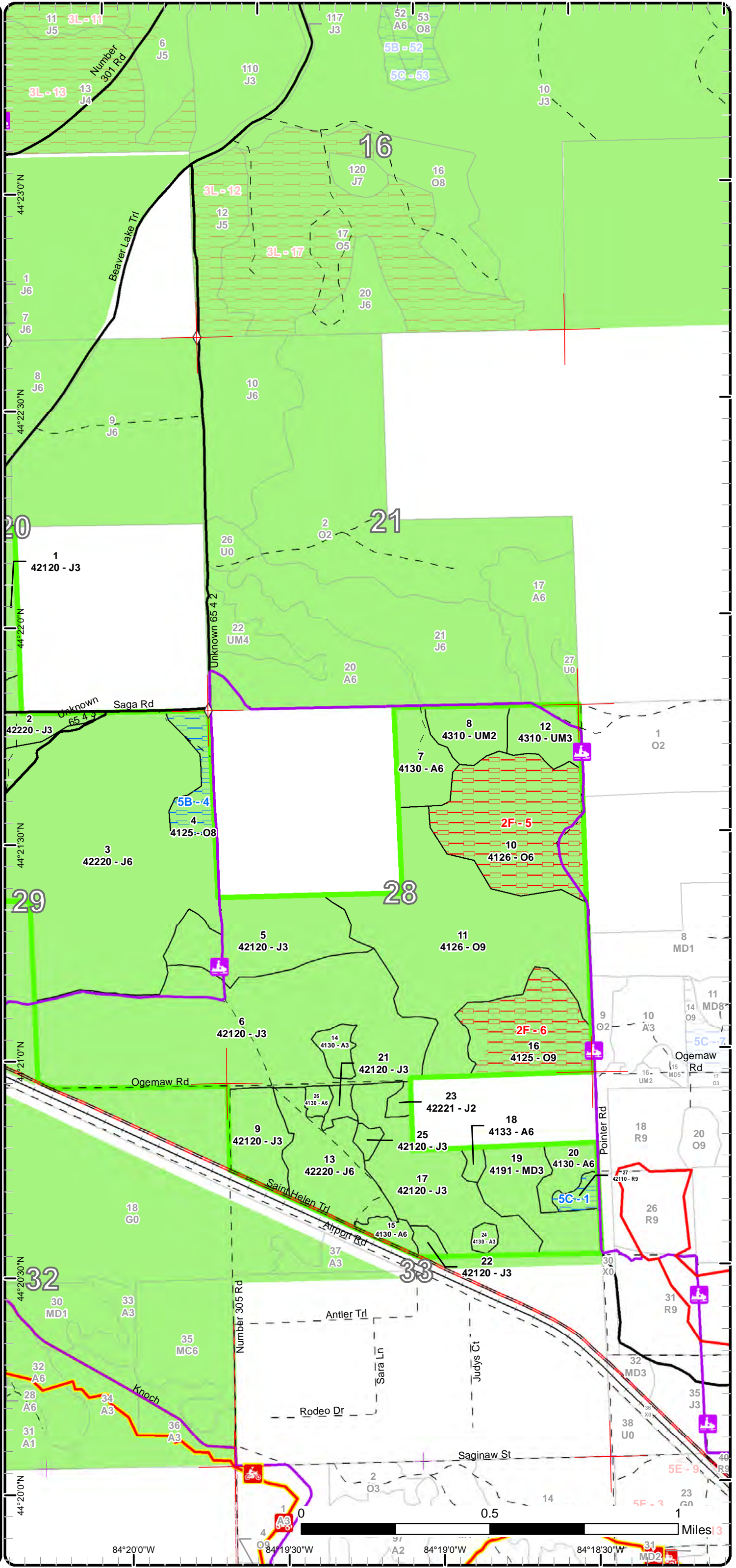


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**Report 1 – Total Acres by Cover Type and Age Class**



Age Class

|                        | Non-Forest | 0-9      | 10-19      | 20-29      | 30-39     | 40-49     | 50-59    | 60-69      | 70-79    | 80-89    | 90-99    | 100-109   | 110-119    | 120-129  | 130-139  | 140-149  | 150+     | Uneven-Aged | Total       |
|------------------------|------------|----------|------------|------------|-----------|-----------|----------|------------|----------|----------|----------|-----------|------------|----------|----------|----------|----------|-------------|-------------|
| Aspen                  | 0          | 0        | 0          | 10         | 9         | 35        | 0        | 0          | 0        | 0        | 0        | 0         | 0          | 0        | 0        | 0        | 0        | 0           | 54          |
| Jack Pine              | 0          | 0        | 149        | 396        | 40        | 0         | 0        | 360        | 0        | 0        | 0        | 0         | 0          | 0        | 0        | 0        | 0        | 0           | 945         |
| Mixed Upland Deciduous | 0          | 0        | 32         | 0          | 0         | 0         | 0        | 0          | 0        | 0        | 0        | 0         | 0          | 0        | 0        | 0        | 0        | 0           | 32          |
| Oak                    | 0          | 0        | 0          | 0          | 0         | 0         | 0        | 0          | 0        | 0        | 0        | 93        | 185        | 0        | 0        | 0        | 0        | 0           | 278         |
| Red Pine               | 0          | 0        | 0          | 0          | 0         | 0         | 0        | 0          | 0        | 5        | 0        | 0         | 0          | 0        | 0        | 0        | 0        | 0           | 5           |
| Upland Mixed Forest    | 0          | 0        | 0          | 35         | 0         | 0         | 0        | 0          | 0        | 0        | 0        | 0         | 0          | 0        | 0        | 0        | 0        | 0           | 35          |
| <b>Total</b>           | <b>0</b>   | <b>0</b> | <b>181</b> | <b>441</b> | <b>49</b> | <b>35</b> | <b>0</b> | <b>360</b> | <b>0</b> | <b>5</b> | <b>0</b> | <b>93</b> | <b>185</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>    | <b>1349</b> |





## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2019

Compartment 186  
Total Compartment Acres: 1,350

### Acres of Harvest

Commercial Harvest - 499  
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 |
|--------------|------------|-----------|----------------|-----------|-------------|----------|-------------------|----------|----------|-------------|
| Jack Pine    | 360        | 0         | 0              | 0         | 0           | 0        | 0                 | 0        | 0        | 360         |
| Oak          | 139        | 0         | 0              | 0         | 0           | 0        | 0                 | 0        | 0        | 139         |
| <b>Total</b> | <b>499</b> | <b>0</b>  | <b>0</b>       | <b>0</b>  | <b>0</b>    | <b>0</b> | <b>0</b>          | <b>0</b> | <b>0</b> | <b>499</b>  |

### Proposed and Next Step Treatments by Method

|              | Harvest    | Site Prep  | Planting   | Seeding  | Burning  | Pesticide  | Monitoring | Other    | Non-Forest Mgt. | Total Acres |
|--------------|------------|------------|------------|----------|----------|------------|------------|----------|-----------------|-------------|
| Current      | 499        | 0          | 0          | 0        | 0        | 0          | 0          | 0        | 0               | 499         |
| Next Step    | 0          | 360        | 360        | 0        | 0        | 859        | 0          | 0        | 0               | 1579        |
| <b>Total</b> | <b>499</b> | <b>360</b> | <b>360</b> | <b>0</b> | <b>0</b> | <b>859</b> | <b>0</b>   | <b>0</b> | <b>0</b>        | <b>2078</b> |





| S<br>t<br>a<br>n<br>d | Treatment<br>Name | Acres | Stand<br>CoverType           | Size<br>Density    | Stand<br>Age | BA<br>Range | Treatment<br>Type | Treatment<br>Method        | Cover Type<br>Objective      | Age<br>Structure | Approval<br>Status |
|-----------------------|-------------------|-------|------------------------------|--------------------|--------------|-------------|-------------------|----------------------------|------------------------------|------------------|--------------------|
| 3                     | 71186003-Cut      | 360.0 | 42220 - Natural<br>Jack Pine | Poletimber<br>Well | 65           | 51-80       | Harvest           | Clearcut with<br>Retention | 42120 - Planted<br>Jack Pine | Even-Aged        | Proposal           |

**Habitat Cut: No****Site Condition:**

Prescription Clearcut and plant jack pine per the KW management plan.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Planted jack pine at KW levels

Regen:OtherComment:

Proposed Start Date: 10/01/2018

|    |              |       |                                    |                   |     |        |         |                            |                 |           |          |
|----|--------------|-------|------------------------------------|-------------------|-----|--------|---------|----------------------------|-----------------|-----------|----------|
| 11 | 71186011-Cut | 139.1 | 4126 - White,<br>Black, N. Pin Oak | Sawtimber<br>Well | 110 | 81-110 | Harvest | Clearcut with<br>Retention | 412 - Oak Types | Even-Aged | Proposal |
|----|--------------|-------|------------------------------------|-------------------|-----|--------|---------|----------------------------|-----------------|-----------|----------|

**Habitat Cut: No****Site Condition:**

Prescription Clearcut stand and manage for oak stump sprout regeneration. Protect advanced oak regeneration but expect damage. Leave multiple islands

Specs: and scattered large crowned healthy oak for retention. Focus retention on white oak mast trees. Some jack pine regeneration is also expected. Use slash to block off illegal orv trails on Preachers Hill.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed oak and hardwood regeneration at fully stocked levels.

Regen:OtherComment:

Proposed Start Date: 10/01/2018

**Total Treatment  
Acreage Proposed: 499.1**



## Report 4 – Site Conditions

Roscommon Mgt. Unit  
Jason Lewicki : Examiner

Compartment: 186  
Year of Entry: 2019

### Availability for Management

| Total<br>Acres | Acres<br>Available | Acres Avail    |               | Dominant Site Conditions | 5B        | 5C       | 2F  |
|----------------|--------------------|----------------|---------------|--------------------------|-----------|----------|-----|
|                |                    | With Condition | Not Available |                          |           |          |     |
| 54             | 54                 | <b>0</b>       | 0             | Aspen                    |           |          |     |
| 945            | 945                | <b>0</b>       | 0             | Jack Pine                |           |          |     |
| 31             | 31                 | <b>0</b>       | 0             | Mixed Upland Deciduous   |           |          |     |
| 279            | 141                | <b>15</b>      | 122           | Oak                      | <b>15</b> |          | 122 |
| 5              | 0                  | <b>5</b>       | 0             | Red Pine                 |           | <b>5</b> |     |
| 35             | 35                 | <b>0</b>       | 0             | Upland Mixed Forest      |           |          |     |
| 1,350          | 1,207              | <b>21</b>      | 122           | Total Forested Acres     | <b>15</b> | <b>5</b> | 122 |
|                | 89%                | <b>2%</b>      | 9%            | 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> | 5     | Unspecified          | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b> |                                 |   |       |                      |                      |                      |                      |
| 4                | Available                       | <b>5B: Maintain for regeneration purposes</b>                                       | 15    | Unspecified          | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b> |                                 |   |       |                      |                      |                      |                      |
| 5                | Unavailable                     | <b>2F: Too steep</b>  | 78    | Unspecified          | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b> |                                 |   |       |                      |                      |                      |                      |
| 6                | Unavailable                     | <b>2F: Too steep</b>  | 44    | Unspecified          | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b> |                                 |   |       |                      |                      |                      |                      |



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 |
|-----------------|--------------|-------------|----------------|-------|
| <b>Comments</b> |              |             |                |       |





### 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 | Roscommon Mgt. Unit             |                  | Report 7 – Forested Stands |              |             | Compartment: 186<br>Year of Entry: 2019 |   |
|-------|---------------------------------|------------------|----------------------------|--------------|-------------|---|---|
|       | Level 4<br>Cover Type           | Size<br>Density  | Acres                      | Stand<br>Age | BA<br>Range | General<br>Comments:                    |   |
| 1     | 42120 - Planted Jack Pine       | Sapling Well     | 148.7                      | 12           |             |   |   |
| 2     | 42220 - Natural Jack Pine       | Sapling Well     | 68.2                       | 29           |             |   | Stand was created from St. Helen wildfire. Very thick in some spots and open in others.   |
| 3     | 42220 - Natural Jack Pine       | Poletimber Well  | 360.0                      | 65           | 51-80       |   | Stand is to be replanted in 2027 per the KW management plan.  |
| 4     | 4125 - Black, N. Pin Oak        | Sawtimber Medium | 15.4                       | 105          | 1-50        |   | Treated in 2001. Old oak stand with areas of mortality and heavy cherry understory.   |
| 5     | 42120 - Planted Jack Pine       | Sapling Well     | 53.3                       | 22           |             |   |   |
| 6     | 42120 - Planted Jack Pine       | Sapling Well     | 181.2                      | 22           |             |   |   |
| 7     | 4130 - Aspen                    | Poletimber Well  | 20.9                       | 43           | 51-80       |   |   |
| 8     | 4310 - Pine, Oak Mix            | Sapling Medium   | 17.4                       | 21           | Immature    |   |   |
| 9     | 42120 - Planted Jack Pine       | Sapling Well     | 23.8                       | 24           |             |   |   |
| 10    | 4126 - White, Black, N. Pin Oak | Poletimber Well  | 78.2                       | 105          | 81-110      |   | Has alot of stagnant poletimber mixed with scattedred low quality log trees.  |
| 11    | 4126 - White, Black, N. Pin Oak | Sawtimber Well   | 139.1                      | 110          | 81-110      |   | Low quality black/pin oak stand in a valley between two hills or ridges. Rolling terrain. Areas of heavier white oak component. Scattered jack pine and a few red pine. Some areas have heavy advanced white oak understory. Survey needed. |
| 12    | 4310 - Pine, Oak Mix            | Sapling Well     | 18.0                       | 21           | Immature    |   | Several age classes of mixed oak and jack pine. Scattered red pine, white pine, and jack pine left for retention. Feature stand is the understory.  |
| 13    | 42220 - Natural Jack Pine       | Poletimber Well  | 39.7                       | 39           |             |   | 1977 Wildfire. Has some scattered supercanopy jack pine and red pine found mostly on the west side.   |
| 14    | 4130 - Aspen                    | Sapling Well     | 7.1                        | 24           | Immature    |   |   |
| 15    | 4130 - Aspen                    | Poletimber Well  | 5.7                        | 39           |             |   | Part of 1977 wildfire.  |
| 16    | 4125 - Black, N. Pin Oak        | Sawtimber Well   | 46.2                       | 110          | 81-110      |   | Preachers Hill. Steep slopes. Multiple illegal orv trails causing erosion. Use slash from the adjacent harvest to block illegal orv trails. Some areas are inoperable.  |



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## Roscommon Mgt. Unit

## Report 7 – Forested Stands

Compartment: 186  
Year of Entry: 2019

|    | Level 4<br>Cover Type                         | Size<br>Density    | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |
|----|---|--------------------|-------|--------------|-------------|---|
| 17 | 42120 - Planted Jack<br>Pine                  | Sapling Well       | 56.2  | 25           | Immature    |   |
| 18 | 4133 - Aspen, Mixed<br>Pine                   | Poletimber<br>Well | 2.9   | 43           | 51-80       |   |
| 19 | 4191 - Mixed Upland<br>Deciduous with Conifer | Sapling Well       | 31.5  | 15           | Immature    | Red pine plantation with heavy hardwood competition. Mostly<br>cherry.                |
| 20 | 4130 - Aspen                                  | Poletimber<br>Well | 11.3  | 43           | 51-80       |   |
| 21 | 42120 - Planted Jack<br>Pine                  | Sapling Well       | 4.0   | 25           | Immature    |   |
| 22 | 42120 - Planted Jack<br>Pine                  | Sapling Well       | 3.5   | 25           | Immature    |   |
| 23 | 42221 - Natural Jack<br>Pine, Mixed Deciduous | Sapling<br>Medium  | 3.0   | 25           | Immature    |   |
| 24 | 4130 - Aspen                                  | Sapling Well       | 2.9   | 25           | Immature    |   |
| 25 | 42120 - Planted Jack<br>Pine                  | Sapling Well       | 3.0   | 25           | Immature    |   |
| 26 | 4130 - Aspen                                  | Poletimber<br>Well | 3.3   | 39           | 81-110      |   |
| 27 | 42110 - Planted Red<br>Pine                   | Sawtimber<br>Well  | 5.3   | 86           | 111-140     | 1931 Red pine plantation that was thinned in the past. Heavy<br>mixed oak understory. |





Stand Cover Type

Acres

Managed  
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General Comments:

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#Type!

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