



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71172

Entry Year 2019

Acreage: 2,164

County Ogemaw

Management Area: Kirtland's Warbler

Revision Date: 2017-08-02

Stand Examiner: Doug Bates

Legal Description:

T24NR01E Sections 7-9, and 18.

Identified Planning Goals:

Maintain current age and cover types as specified in the Kirtlands Warbler Recovery Plan (KWRP) in that part of the compartment which is within the plan. Maintain current age and species diversity in a range of early and late successional ecosystems in the rest of the compartment.

Soil and topography:

Terrain is rolling to flats with soils mostly Grayling sand with a few inclusions of Ottawa loamy sand in the uplands and Greenwood peat in the one wet drainage.

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

Mostly state owned land except for one 80 acre private parcel used as hunting property in the northeast of Section 18. Lands surrounding the compartment are state or U.S.F.W.S. owned except for a few private in-holdings used for hunting purposes.

Unique Natural Features:

Kirtlands warblers have been document in the jack pine areas of the compartment. Bald eagles, prairie warblers, dusted skippers, and great blue herons as well as secretive locust, Ram's head lady's slipper, and doll merolonche have been documented on lands adjacent to the compartment. Potential for Rough Fescue, Hills Thistle, Pale Agoseris, and Allegheny Plum and other pine barren/savannah species exists throughout the compartments and have been found on lands adjacent to the compartment.

Archeological, Historical, and Cultural Features:

None identified or found during field work. No concerns from State Archeological Office.

Special Management Designations or Considerations:

Compartment is in the Damon Kirtlands Warbler Unit and is part of Blocks 86 and 88 in the revised KWRP. Stands which are part of the KWRP are designated as HCVA's.

Watershed and Fisheries Considerations:

None except for the drainage in the southwest corner of Section 18 will need to be protected during treatments.

Wildlife Habitat Considerations:

Maintain jack pine type 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

Sand/gravel pits are not located in the area but there may be some potential within the compartment. The Rose City Field is located just over one mile to the southeast and the St. Helen Field is just over one mile to the southwest. No well permits have been issued in the area since 1990 and 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 to this compartment is good via seasonal county roads, the snowmobile trail, and state owned two-tracks.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Section 7 & 18 of this compartment contains Ogemaw Hills Snowmobile Trail 9. This snowmobile trail is moderately used by vehicles for access during hunting and gathering pursuits.

Fire Protection:

This compartment has a large percent of high hazard jack pine fuel type. There is a history of this area being a prone.

Additional Compartment Information:

The following reports from the Inventory are attached:

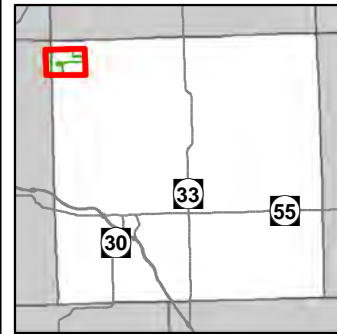
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

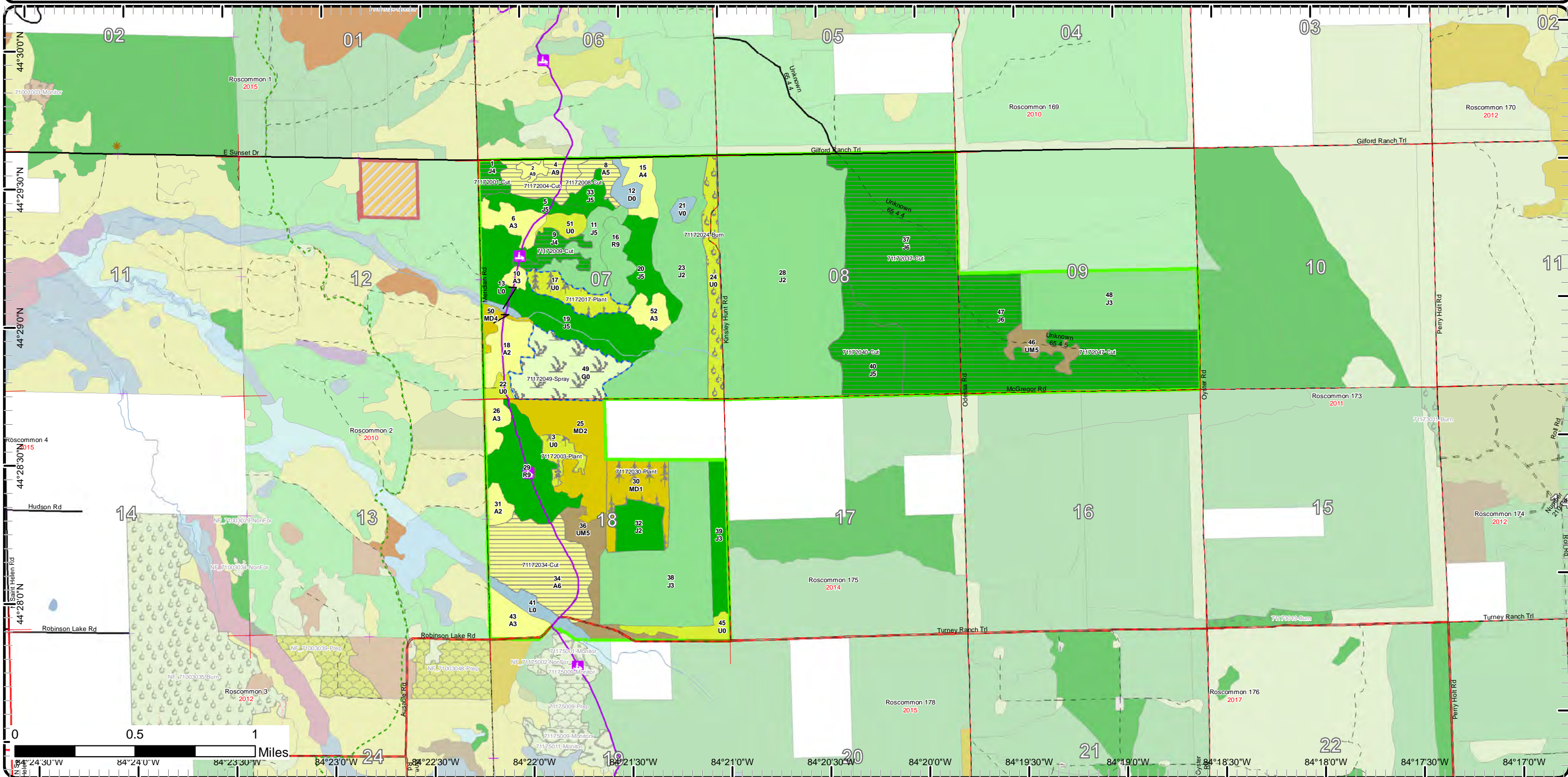
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

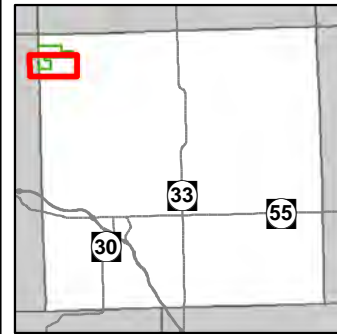
Compartment: 172
 T24N R01E 07-09, 18
 County: Ogemaw
 Unit: Roscommon
 Mgmt Area: Kirtland's Warbler
 YOE: 2019
 Acres: 2163.7 GIS Calculated
 Examiner: Doug Bates
 Map Revised: 8/2/2017
 Map Phase: Review



- Miris Corners
- Remonumented Section Corners
- Counties
- Snowmobile Trails
- Designated Hiking Trails
- Designated Snowmobile Trails
- Paved Roads
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Streams
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Pesticide
- Planting (tree species)
- Prescribed Burn
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

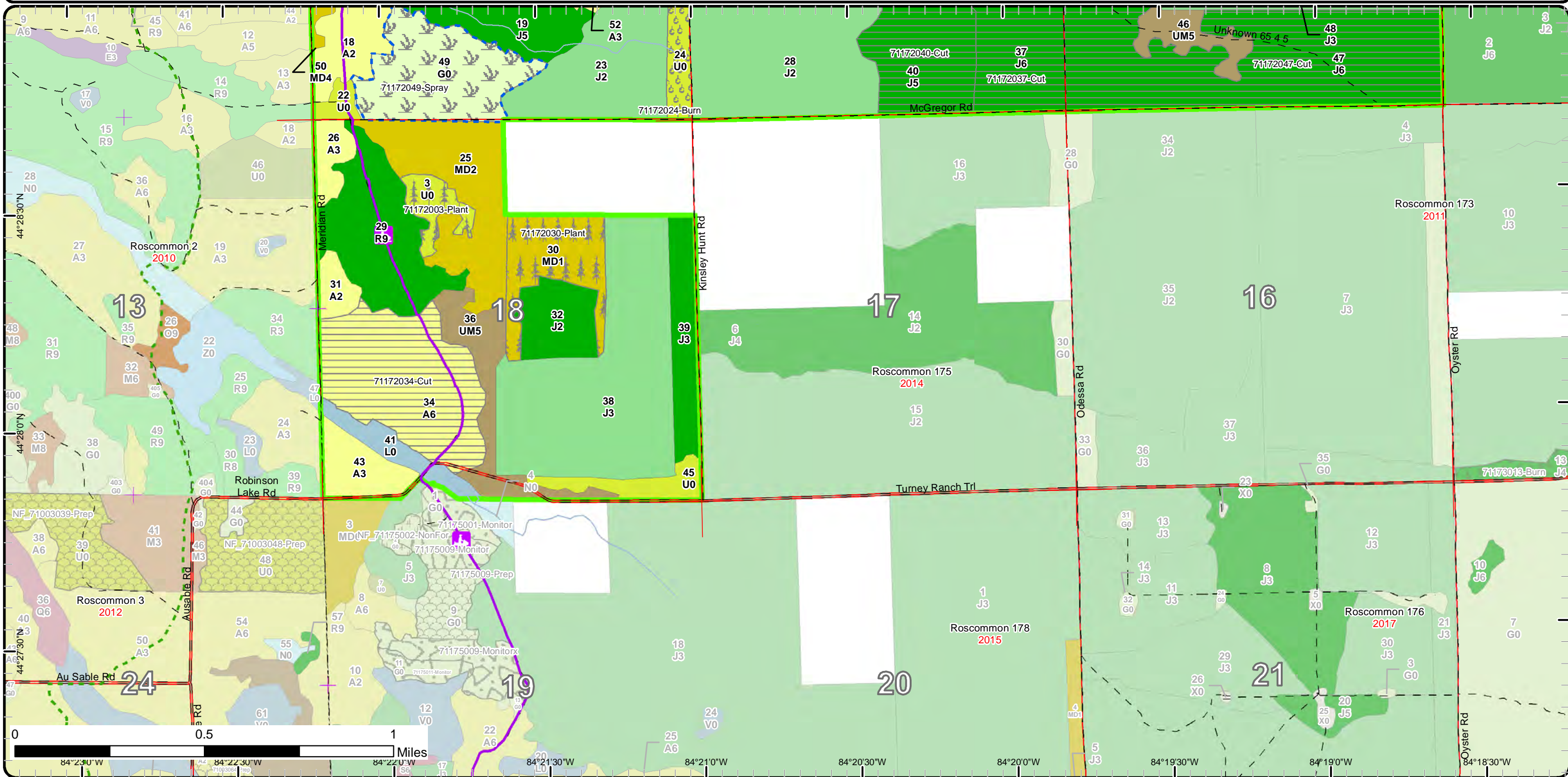


Cover Type & Treatments Map



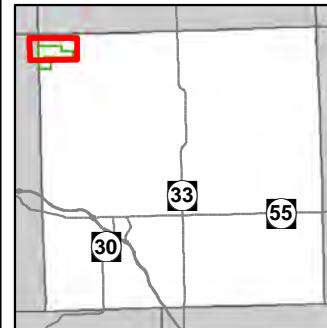
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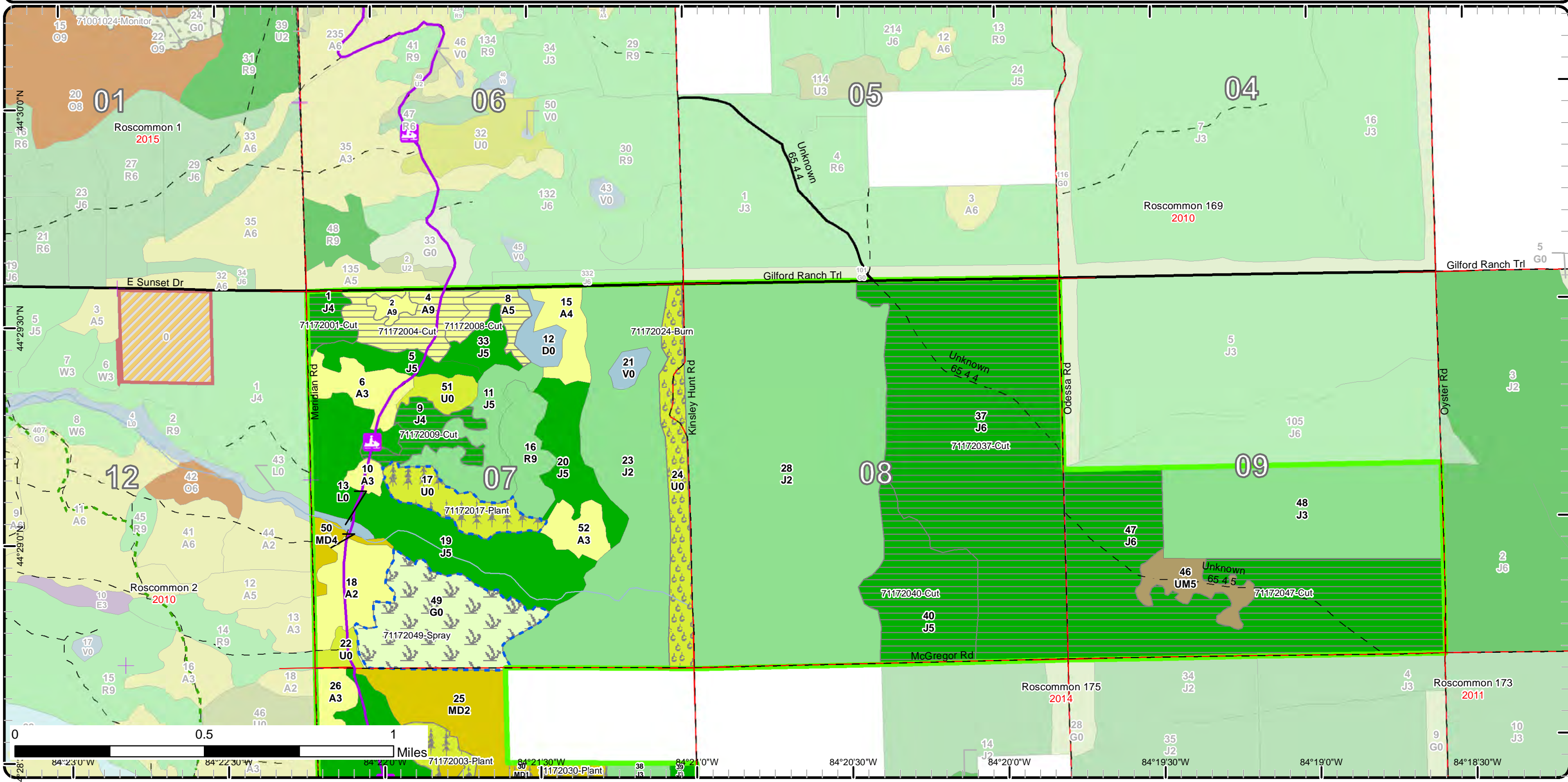


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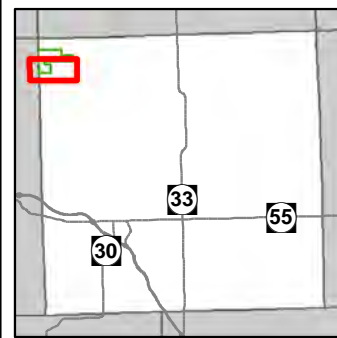


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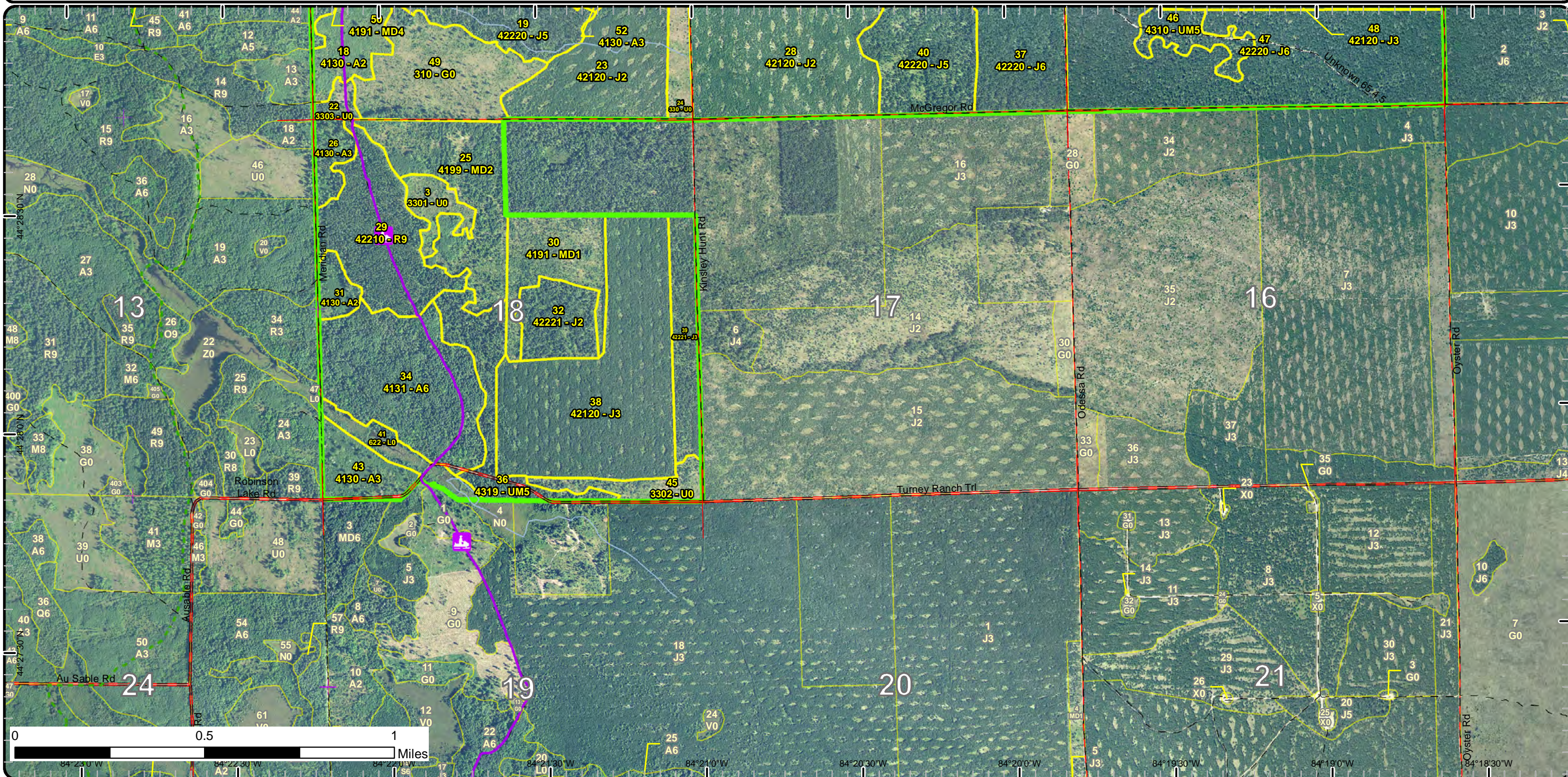


Stand Boundary Map

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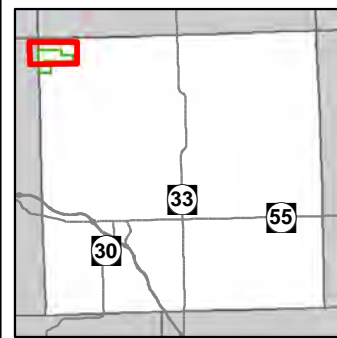


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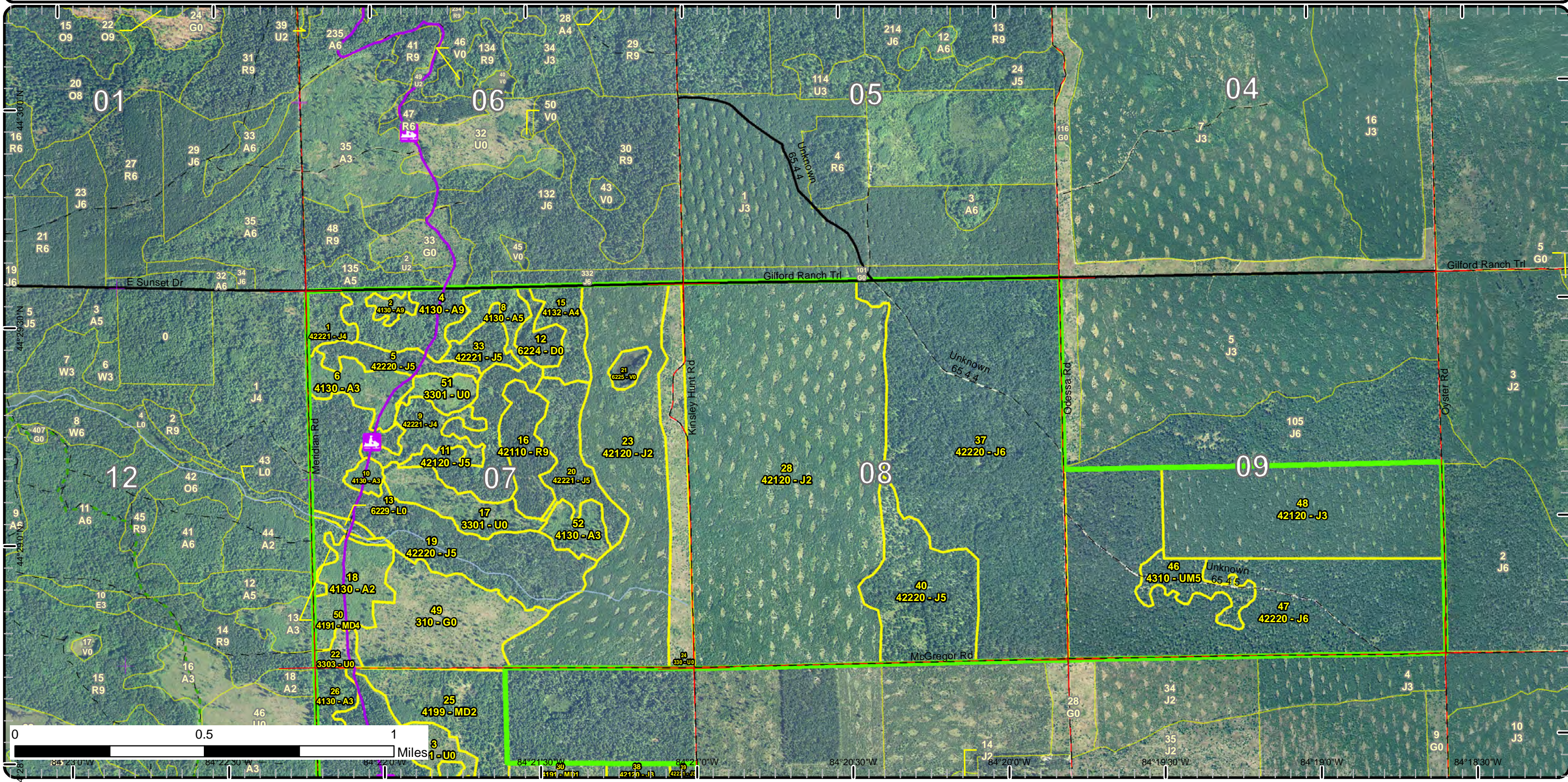


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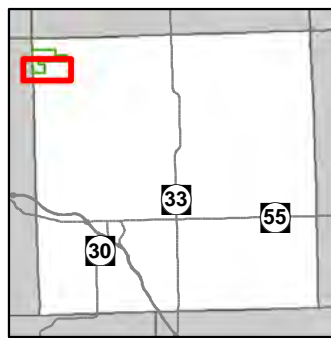


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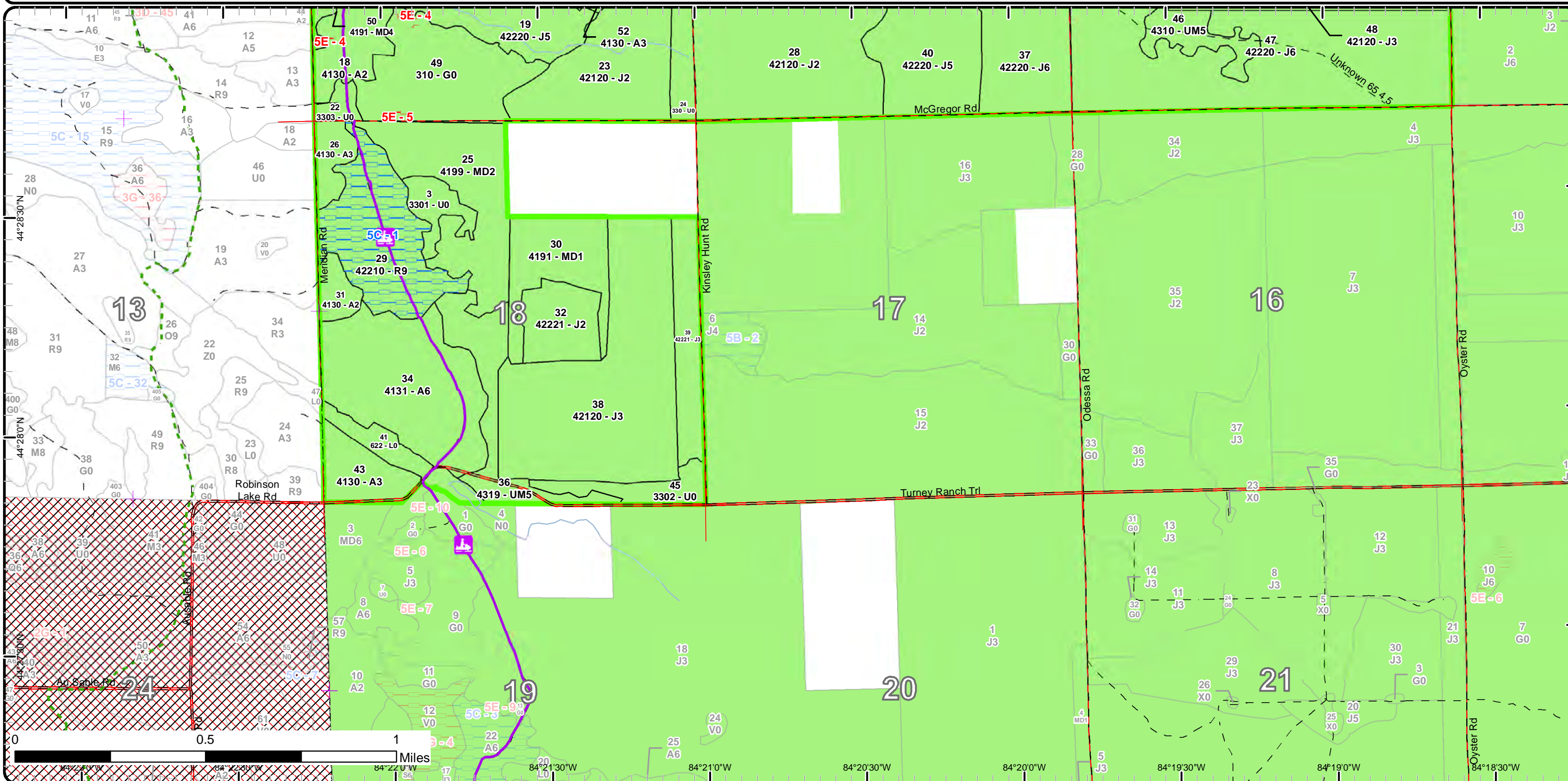


Special Conservation Areas & Site Conditions Map

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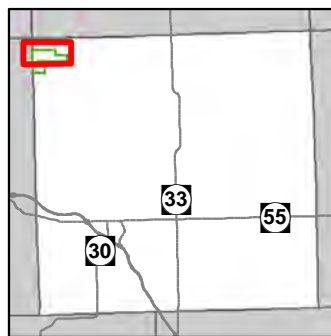


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Cold Water Streams

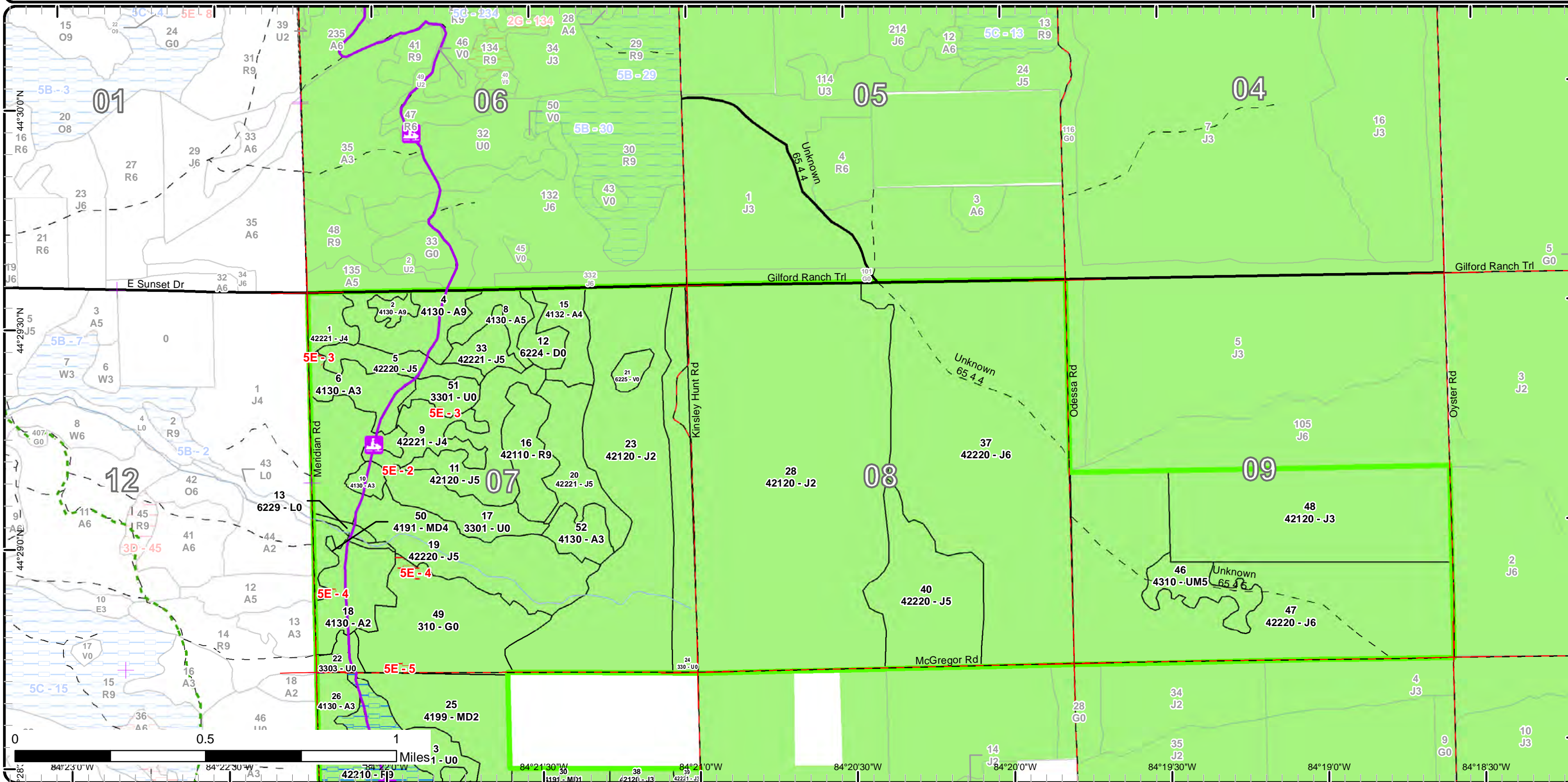


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Report 1 – Total Acres by Cover Type and Age Class



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	105	0	0	16	0	102	0	26	0	0	0	0	0	0	0	0	0	248
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Herbaceous Openland	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Jack Pine	0	0	471	307	0	278	422	0	0	0	0	0	0	0	0	0	0	0	1477
Low-Density Trees	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Lowland Shrub	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	0	100	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	107
Red Pine	0	0	0	0	0	0	22	0	0	0	62	0	0	0	0	0	0	0	84
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Mixed Forest	0	0	0	0	0	17	34	0	0	0	0	0	0	0	0	0	0	0	51
Total	196	105	571	307	16	302	580	0	26	0	62	0	0	0	0	0	0	0	2163



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 172
Total Compartment Acres: 2,164

Commercial Harvest - 653
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	124	0	0	0	0	0	0	0	0	124
Jack Pine	529	0	0	0	0	0	0	0	0	529
Total	653	0	0	0	0	0	0	0	0	653

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	653	0	72	0	37	61	0	0	0	824
Next Step	0	684	602	0	0	162	1364	0	0	2812
Total	653	684	674	0	37	223	1364	0	0	3635



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	71172001-Cut	10.3	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Poor	52	Unspecified	Harvest	Clearcut	42210 - Natural Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Final harvest all species to two inches and chip the tops. Leave no retention due to smaller size, and sparse stocking. Treat and establish to red pine.
Specs:

Next Step : : : : Pesticide, Skidder/Mechanical; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial
Treatments: Regen(1yr)

Acceptable Planted red pine to full stocking.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

3	71172003-Plant	12.5	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Herbicide and roller chop cherry and then trench and plant red pine seedlings.
Specs:

Next Step Pesticide, Skidder/Mechanical; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable fully stocked red pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

4	71172004-Cut	26.0	4130 - Aspen	Sawtimber Well	72	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest along species to two inches. Leave out the red pine inclusion for retention, it contains other representative species also. Put in
Specs: protection specs. for snowmobile trail and drumming log specs.

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

Acceptable Aspen to moderate stocking.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

8	71172008-Cut	12.5	4130 - Aspen	Poletimber Medium	52	Unspecified	Harvest	Clearcut	4132 - Aspen, Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest all species to two inches. With the stands smaller size, poor quality, and irregular shape, leave no retention. Place drumming log
Specs: spec.

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

Acceptable Aspen with jack pine to moderate stocking.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
9	71172009-Cut	17.6	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Poor	55	1-50	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Final harvest all species to 2 inches. Chip the tops and leave no retention. Trench and plant to red pine. Place ORV trail protection spec.
Specs:

Next Step Pesticide, Skidder/Mechanical; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable red pine to full stocking.
Regen:

Other The stand is small in size and the areas is vegetated to young aspen or red pine already and would not be lend to a large KW planting which is
Comment: the preferred.

Proposed Start Date: 10/01/2018

17	71172017-Plant	22.6	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	Planting	Initial Plant	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: Long-Term Retention**

Prescription Spray the cherry underbrush and roller chop. Leave the dense aspen clones along the southern line out of the treatment. Trench and plant red
Specs: pine.

Next Step Pesticide, Skidder/Mechanical; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable red pine with a mix of aspen and oak to full stocking.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

24	71172024-Burn	36.8	330 - Low-Density Trees	Nonstocked		Unspecified	Burn	Fuel Break	310 - Herbaceous Openland		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Periodic burns to create a fuel break.
Specs:

Next Step Monitoring, Other - Specify
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

30	71172030-Plant	37.3	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	13	Immature	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Spray herbicide and roller chop site so can trench and plant either jack pine or red pine seedlings.
Specs:

Next Step Pesticide, Skidder/Mechanical; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Fully stocked pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
34	71172034-Cut	85.3	4131 - Aspen, Oak	Poletimber Well	51	Unspec ified	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Final harvest all species to two inches. Place specifications in to protect snowmobile trail and for grouse drumming logs. Place a couple retention islands of about 5% total in the stand. Try to get some of the large oaks that are in there mixed with the aspen within the islands.

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

Acceptable aspen with mixed oak to full stocking.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

37	71172037-Cut	254.5	42220 - Natural Jack Pine	Poletimber Well	56	Unspec ified	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest all species to two inches. Chip all tops to prepare for trenching. No retention. Include the 5 chain "fuelbreak" strip immediately across the road on this stands north side in the treatment to prepare it for a future fire break.

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

Acceptable Stocking to KW standards
Regen:

Other Sale prep is to be delayed to Fiscal year 2026. Sale is to be ready to trench by 2028 and planted in 2029.
Comment:

Proposed Start Date: 10/01/2018

40	71172040-Cut	60.0	42220 - Natural Jack Pine	Poletimber Medium	48	Unspec ified	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest all species to two inches. Chip tops to prepare for trenching. No retention.
Specs:

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

Acceptable Planted jack pine to KW standards.
Regen:

Other Sale prep is to be delayed to Fiscal year 2026. Sale is to be ready to trench by 2028 and planted in 2029.
Comment:

Proposed Start Date: 10/01/2018

47	71172047-Cut	186.9	42220 - Natural Jack Pine	Poletimber Well	42	Unspec ified	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest all species to two inches and chip the tops for trenching. No retention. When stand is planted, leave a five chain fuelbreak (unplanted) along the west and east sides of the stand.
Specs:

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

Acceptable planted jack pine to KW standards.
Regen:

Other Sale prep is to be delayed to Fiscal year 2026. Sale is to be ready to trench by 2028 and planted in Spring 2029.
Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
49	71172049- Spray	61.2	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	Pesticide	Skidder/Mechanic al	42110 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No **Site Condition: Long-Term Retention**

Prescription Spray to kill the cherry brush competition over a red pine plantation.

Specs:

Next Step Pesticide, Skidder/Mechanical

Treatments:

Acceptable red pine to full stocking

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 823.5**

Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 172

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
249	204	0	45
5	5	0	0
61	58	0	4
1476	1476	0	0
103	71	0	32
18	18	0	0
107	107	0	0
84	22	62	0
9	9	0	0
51	51	0	0
2,164	2,022	62	80
	93%	3%	4%

Dominant Site Conditions

				5C	5E
249	204	0	45		45
5	5	0	0		
61	58	0	4		4
1476	1476	0	0		
103	71	0	32		32
18	18	0	0		
107	107	0	0		
84	22	62	0	62	
9	9	0	0		
51	51	0	0		
2,164	2,022	62	80	62	80
	93%	3%	4%		

**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	5C: Delay treatment for age/size class diversity or exceptional site quality	62	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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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
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	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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Poor	10.3	52	Unspecified	Stand failed to regenerate properly. Pockets of jack pine "puff balls" with 1/10th acre aspen clones here and there. Mostly open with cherry. Cut early and plant to red pine. KOTAR - PVCd.
2	4130 - Aspen	Sawtimber Well	4.2	52	Unspecified	Mature aspen stand needing to be treated. The red pine inclusion is under couple of acres and is along the snowmobile trail. Incorporate this in as some retention/visual. It contains some oak, white pine, and aspen also in with the red pine.
4	4130 - Aspen	Sawtimber Well	26.0	72	Unspecified	Mature aspen stand that needs treated. There is about a two acre red pine inclusion within the stand that is split by a snowmobile trail. Use this red pine as the retention. It contains all the representative species. Place trail protection specs. and drumming log specs also. KOTAR = Par VVb
5	42220 - Natural Jack Pine	Poletimber Medium	13.6	52	Unspecified	Typical jack pine for the area. Small 1/4 vernal pond in the middle of the stand, west side of trail. 1 1/2 acre red pine inclusion within the stand. Lots of blueberry cover. KOTAR = PVCd
6	4130 - Aspen	Sapling Well	18.5	6	Immature	Final harvest 2011. Lower end of canopy closure percentage. Decent dense aspen regeneration in the clones areas. Few larger open areas with scattered cherry. The part of this stand east of the road did not regenerate well at all and is classified as a separate stand now.
8	4130 - Aspen	Poletimber Medium	12.5	52	Unspecified	Sparse, mature, poor quality aspen that needs to be treated. KOTAR = Par VVb
9	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Poor	17.6	55	1-50	A very sparse poor quality jack pine stand with the pine scattered about and look like "puff balls". Not enough to spread the tops from a harvest to get natural seeding. Recommend a harvest, chip tops, and put to red pine. Kotar is mostly ParVHA.
10	4130 - Aspen	Sapling Well	4.5	6	Immature	Treated in 2011 will decent aspen regeneration. Bisected by snowmobile trail.
11	42120 - Planted Jack Pine	Poletimber Medium	30.7	48	Unspecified	Planted jack pine stand with scattered large red pine saw class trees. Couple aspen clones mixed in. The areas void of pine/aspen is full of cherry.
15	4132 - Aspen, Jack Pine	Poletimber Poor	16.0	39	Unspecified	KOTAR = ParVHa/ParVVb. Age was determined from a wildfire record that burnt this area. Very sparse poor quality trees. The aspen is in small, 1/4-1/2 acre clones scattered about. The more open area is full of cherry. The jack pine in more prevalent in the southern half.
16	42110 - Planted Red Pine	Sawtimber Well	21.9	50	81-110	KOTAR = ParVVb, Stand treated 2013 under sale #71-012-11-01. Some supercanopy red pine mixed in that were planted under.
18	4130 - Aspen	Sapling Medium	26.4	6	Immature	Treatment completed 2011 under sale #71-020-2009-01.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	42220 - Natural Jack Pine	Poletimber Medium	86.1	55	Unspecified	Some aspen clones within the stand on the higher elevations, but most is in the broadbased drain along the south line emanating from stand 13. Jack pine mixed in this drain also. KOTAR = mix of ParVHa, ParVVb, and ParVCo
20	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	28.1	56	Unspecified	The pine and aspen is larger than those in the stand to the north, less open areas with cherry. The trees are low quality with mortality showing. The aspen clone is mostly along the west line. The aspen is sprouting but getting hit by deer browse. KOTAR = ParVHa/ParVVb
23	42120 - Planted Jack Pine	Sapling Medium	141.3	16	Unspecified	cut 1999, planted 2000 to jack pine in opposing weave pattern for KW, growing well. The open "weaves" are filling in with cherry.
25	4199 - Other Mixed Upland Deciduous	Sapling Medium	62.9	16	Immature	Overstory was removed in 2001. Is on the low end of the canopy closure. Lots of oak regeneration in all size classes where the oak is regenerating well. This is mostly on the east side along the private parcel. There are a couple of large aspen clones, with the southern 1/4 being a mix of aspen, pole sized oaks and cherry. Areas not regenerating well came back to cherry. KOTAR = ParVHa/ParVVb & Unknown
26	4130 - Aspen	Sapling Well	11.8	6	Immature	Final harvested in 2011. Decent aspen regeneration with about a 30 basal area of overstory pine and oak was left. Does not seem to be impacting the regeneration. Will leave though for future snags/cwd.
28	42120 - Planted Jack Pine	Sapling Medium	329.9	16	Unspecified	cut 1999, planted 2000 to jack pine in opposing weave pattern for KW, growing well. Oak and cherry filling in the open weave portions.
29	42210 - Natural Red Pine	Sawtimber Well	61.8	91	81-110	Stand treated 2013 under sale #71-012-11-01
30	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	37.3	13	Immature	Stand was final harvested 13 years ago and failed to regenerate. It is forested but with pine cherry mostly. Have small pockets of jack pine scattered about. Some of these pine are larger due to the fact they cut the jack pine down to four inches. This stand needs to be treated and planted either to jack pine if wildlife wants to expand the KW block here, otherwise put it into red pine.
31	4130 - Aspen	Sapling Medium	9.3	6	Immature	Final harvested in 2011. Sparse aspen in many areas, with cherry brush in areas void of aspen. At very low end of canopy closure.
32	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	25.8	26	Immature	Was final harvested 13 years ago but left all jack pine 4 inches and less. The stems are wider spaced when regenerate resulting in short branchy pine. The open areas are coming in cherry. Couple real small aspen clones. The age is older because the pine left post-harvest are the dominate class.
33	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	10.8	52	1-50	Large crowned, bushy, short jack pine with cherry in areas void of the pine. Average basal area is 30. KOTAR = Par VVb



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	4131 - Aspen, Oak	Poletimber Well	85.3	51	Unspecified	Marginal quality aspen that is pushing regeneration in its better clone areas. Final harvest stand. Will need snowmobile trail protection specs. Place a couple retention islands within stand.
36	4319 - Mixed Upland Forest	Poletimber Medium	34.4	51	51-80	Appears that a past harvest removed everything but the red pine and oak. The jack pine came back in very short and bushy with the southern half being higher canopy closure, and contains most of the red pine and oak. The northern 1/2 is more open of mostly jack pine and cherry brush. There are a couple aspen clones within the stand. Hold for one more rotation and then treat.
37	42220 - Natural Jack Pine	Poletimber Well	254.5	56	Unspecified	natural jack pine stand probably resulting from fire in the early 1960's. About and 1+ red pine stand (inclusion) in the northwest corner of the stand that should be left for retention when this stand is treated. Dispersed camping in it.
38	42120 - Planted Jack Pine	Sapling Well	135.1	22	Unspecified	planted to jack pine in 1994 in opposing weave pattern for KW
39	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	28.9	23	Immature	Was to be left as a fuel-break but was not maintained. It is densely forested and would be unwise to try and burn. Need to look at other mechanical means.
40	42220 - Natural Jack Pine	Poletimber Medium	60.0	48	Unspecified	Evidence of fire from the late 1960's in the stand. The stand is sparse with short branchy jack pine. The west half has a decent stocked jack pine pocket that bulges out into the KW planting but the rest of this side of the stand is very sparse with open areas of scattered cherry. Right at the 50% canopy closure. The east side is better for stocking but is not quality stuff either.
43	4130 - Aspen	Sapling Well	21.6	6	Immature	Final harvested in 2011. The eastern third is more sparse in aspen regen. and more pin cherry. Much better aspen densities on the remaining portions.
46	4310 - Pine, Oak Mix	Poletimber Medium	16.9	42	51-80	Jack pine stand under an oak sawlog canopy. Two-aged stand. Very open spacing.
47	42220 - Natural Jack Pine	Poletimber Well	186.9	42	Unspecified	The jack pine is slightly small in diameter than the stand to the west. Seems to be more debris from pine mortality in the stand than others. Couple dispersed campsites along the north side of the trail road.
48	42120 - Planted Jack Pine	Sapling Well	116.7	29	Immature	planted 1987 to opposing weave pattern for KW, scattered pole size jack pine left as residual.
50	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	7.1	42	51-80	A sparse poor quality, narrow stand paralleling the road. Not sure if was left as a visual break for stand 18. Mortality in the pine. With the open areas full of cherry. Could harvest and let the aspen try and spread out or leave and let the younger oak grow up and treat at the oak's age rotation.

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	4130 - Aspen	Sapling Well	12.4	6	Immature	Treated in 2011. Regenerated better than the part of the stand to the west. Left about 20 basal area of large oak and some pine for mast and seeding. Not finding much of any oak regenerating though at this time.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	3301 - Low Density Deciduous Tree	12.5	No	Overstory was removed in 2001 and came back to mainly cherry. Should treat and establish to red pine. KOTAR = ParVHa/ParVb & Unknown
12	6224 - Treed Bog	9.3	No	Leatherleaf bog with a concentration of jack pine in the interior.
13	6229 - Mixed lowland shrub	2.5	No	
17	3301 - Low Density Deciduous Tree	22.6	No	Was treated in 2011 and the aspen failed to regenerate. There are a couple smaller clones along the south line for a couple acres, but the vast majority is open with cherry brush and about 20 basal area of oaks left that did not seed nor sprout. Trench and plant to red pine. Leave out the aspen clones. Kotar is mostly ParVHA.
21	6225 - Bog	4.9	No	Leatherleaf bog with a pine perimeter.
22	3303 - Mixed Low Density Trees	5.6	No	Grassy open area with dispersed camping. Has clumps of red and jack pine along the southern edge.
24	330 - Low-Density Trees	37.0	No	Fair amount of cherry brush with some scattered jack pine saplings in clumps starting.
41	622 - Lowland Shrub	15.7	No	Tag alder marsh
45	3302 - Low Density Conifer Trees	15.8	No	Possible fuel break?
49	310 - Herbaceous Openland	61.4		Trenched 2013; Planted to red pine in 2014. There is a heavy pin cherry overstory competition going on that should be addresses by release spraying.
51	3301 - Low Density Deciduous Tree	9.2	No	Stand was treated in 2011 but did not regenerate well at all compared to the part of the stand west of the forest road. The aspen can in like it was hand planted. There are individual stems 5-10 apart from one another with open space in between. Not enough canopy to call it forested.