



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71072

Entry Year 2021

Acreage: 2,724

County Ogemaw

Management Area: Kirtland's Warbler

Revision Date: 2019-06-24

Stand Examiner: Doug Bates

Legal Description:

Sections 4-5 & 7-10, T24N-R1E, Ogemaw County

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:

Fairly level terrain with some slight rolling topography. The soils are Klacking and Graycalm sands.

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

Mostly contiguous blocks of state land with in-holdings of USFWS lands.

Unique Natural Features:

None identified.

Archeological, Historical, and Cultural Features:

None identified.

Special Management Designations or Considerations:

KW Management Area

Watershed and Fisheries Considerations:

None

Wildlife Habitat Considerations:

Kirtland Warbler habitat.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are not located in the area, but there may be some sand & gravel potential within the compartment. The St. Helen oil and gas field is located just over one mile to the southwest of the compartment, and the Rose City oil field is less than one mile to the south and southeast. These Detroit River (Richfield) fields are structurally controlled. Both fields are undergoing secondary recovery operations currently and are unlikely to expand. The compartment is likely not on one of these structures and would not be expected to have hydrocarbons beneath the compartment, at least down through the Devonian section. Two wells to the east were drilled down to the St. Peter Sandstone and both were dry holes. Potential for oil & gas beneath the compartment appears to be low at this time, and there are no active mineral leases in the compartment. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Good vehicular access with county roads every mile.

Survey Needs:

No

Recreational Facilities and Opportunities:

There are no designated recreational facilities within the compartment but there is lots of dispersed recreational activities due to warbler habitat for bird watching, and game hunting.

Fire Protection:

The area of Ogemaw County that this compartment is in has a history of large fires and complex suppression. This compartment is in Zone 3 dispatch area. The high hazard fuel types in this compartment are mostly Jack Pine including Kirtland's Warbler plantations. There are some fuel breaks in the compartment to assist fire suppression. Access is good with roads on section lines.

Additional Compartment Information:

The following reports from the Inventory are attached:

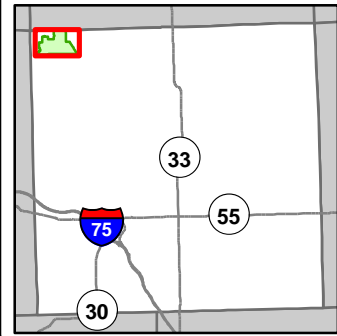
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

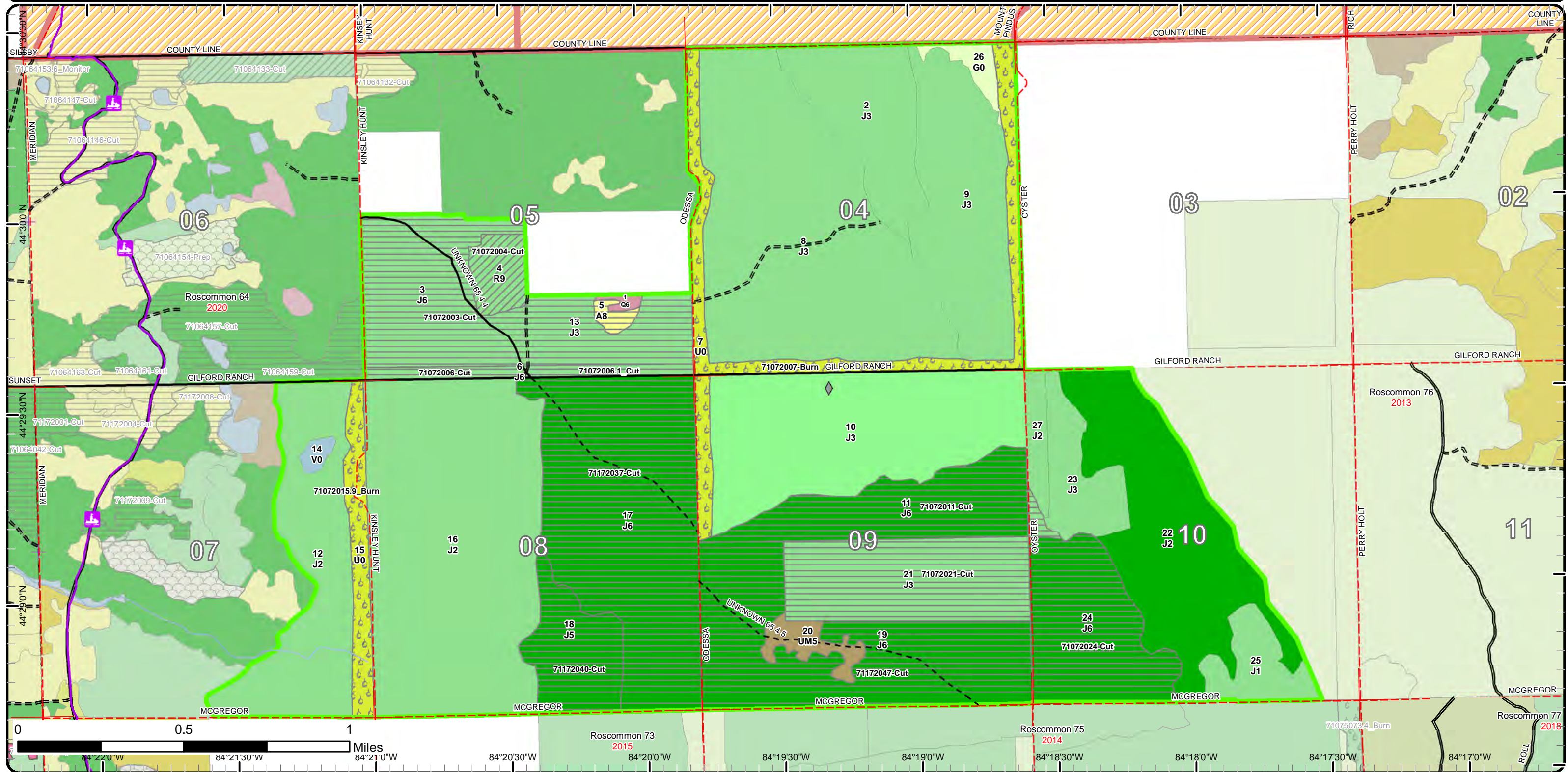
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 72
 T24N, R01E, Sec. 4-5, 7-10
 County: Ogemaw
 Unit: Roscommon
 Mgmt Area: Kirtland's Warbler
 YOE: 2021
 Acres: 2,724 GIS Calculated
 Examiner: Doug Bates
 Map Revised: 11/25/2019
 Map Phase: Post-Review

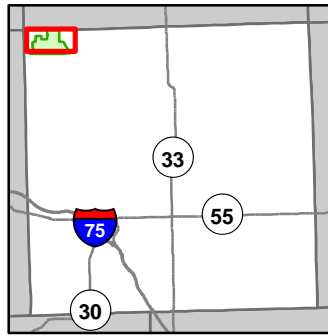


- Miris Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Perennial River
- Compartment Boundary
- Clearcut (w/Reserves)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 424 - Pine (OI)
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

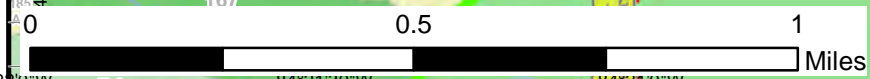
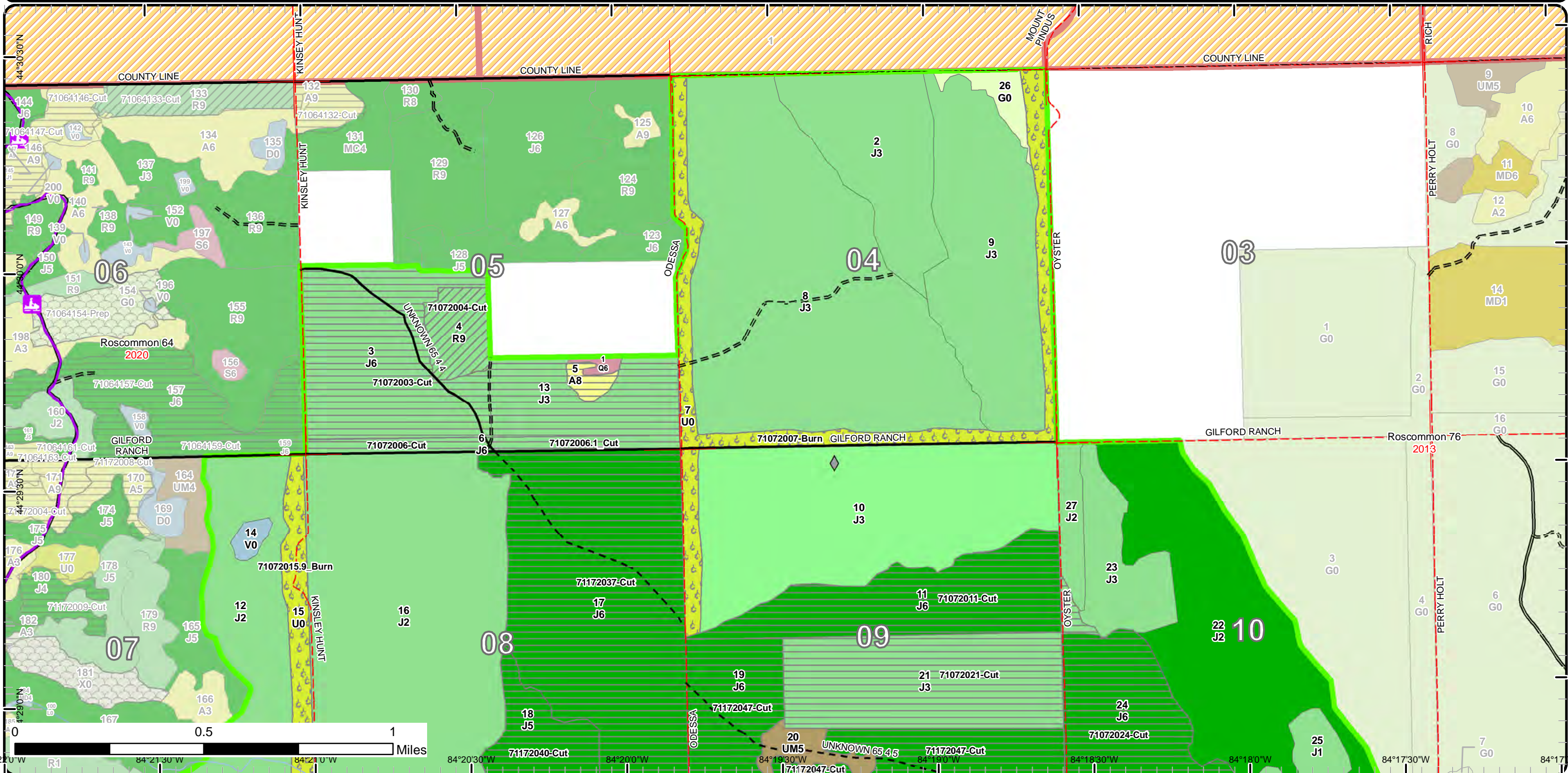


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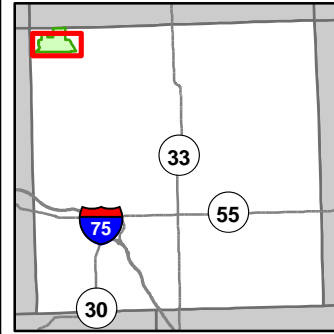
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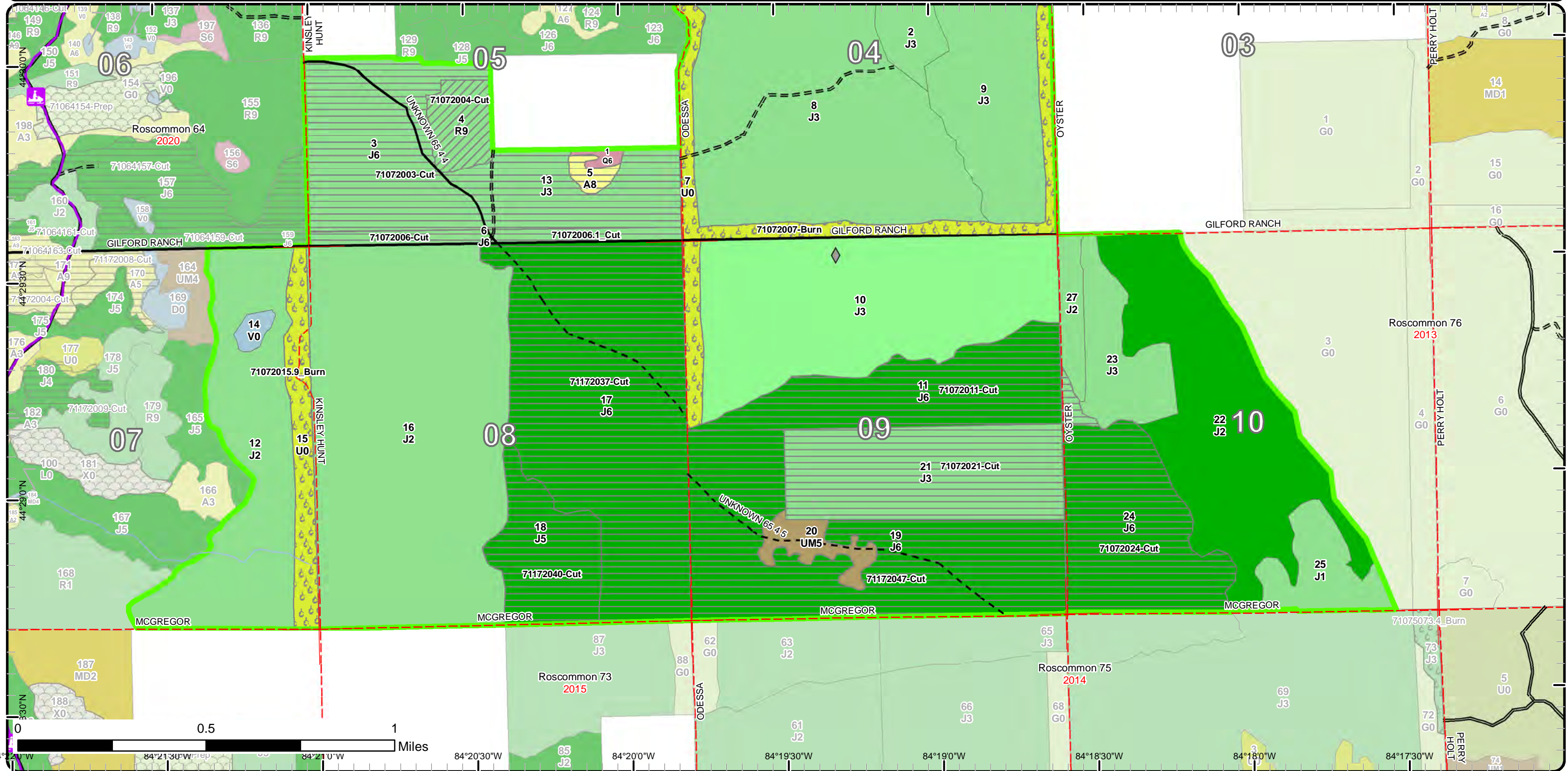
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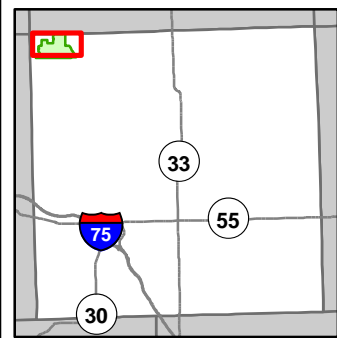
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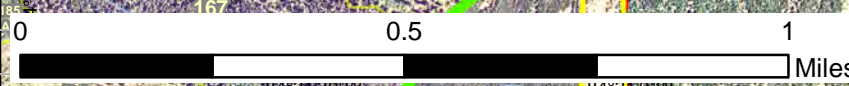
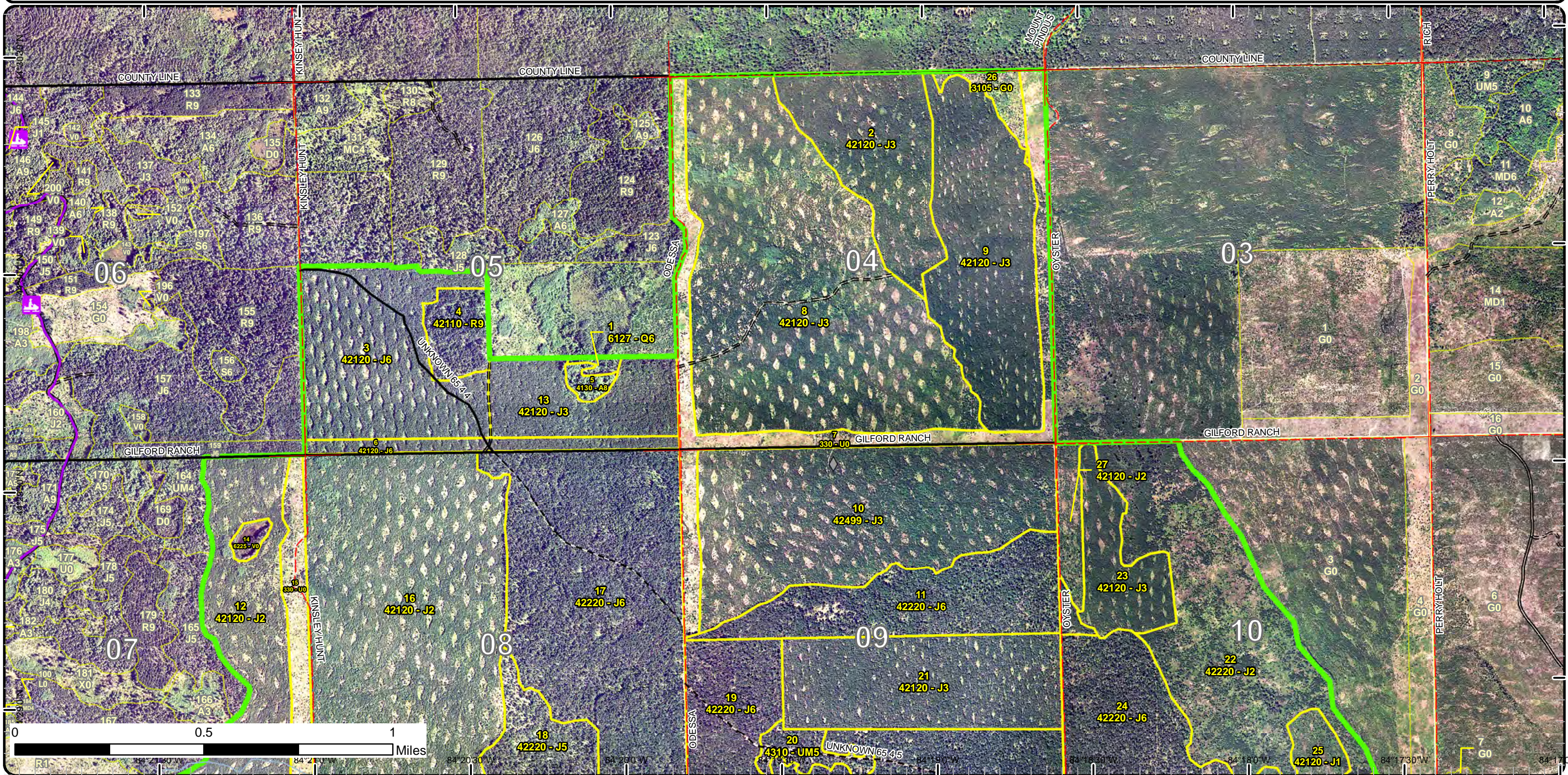
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Stand Boundary Map

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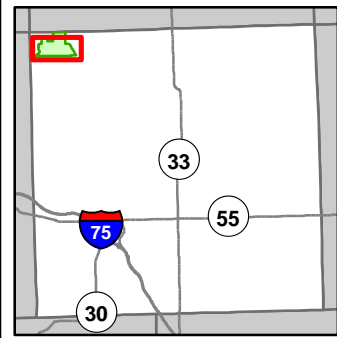
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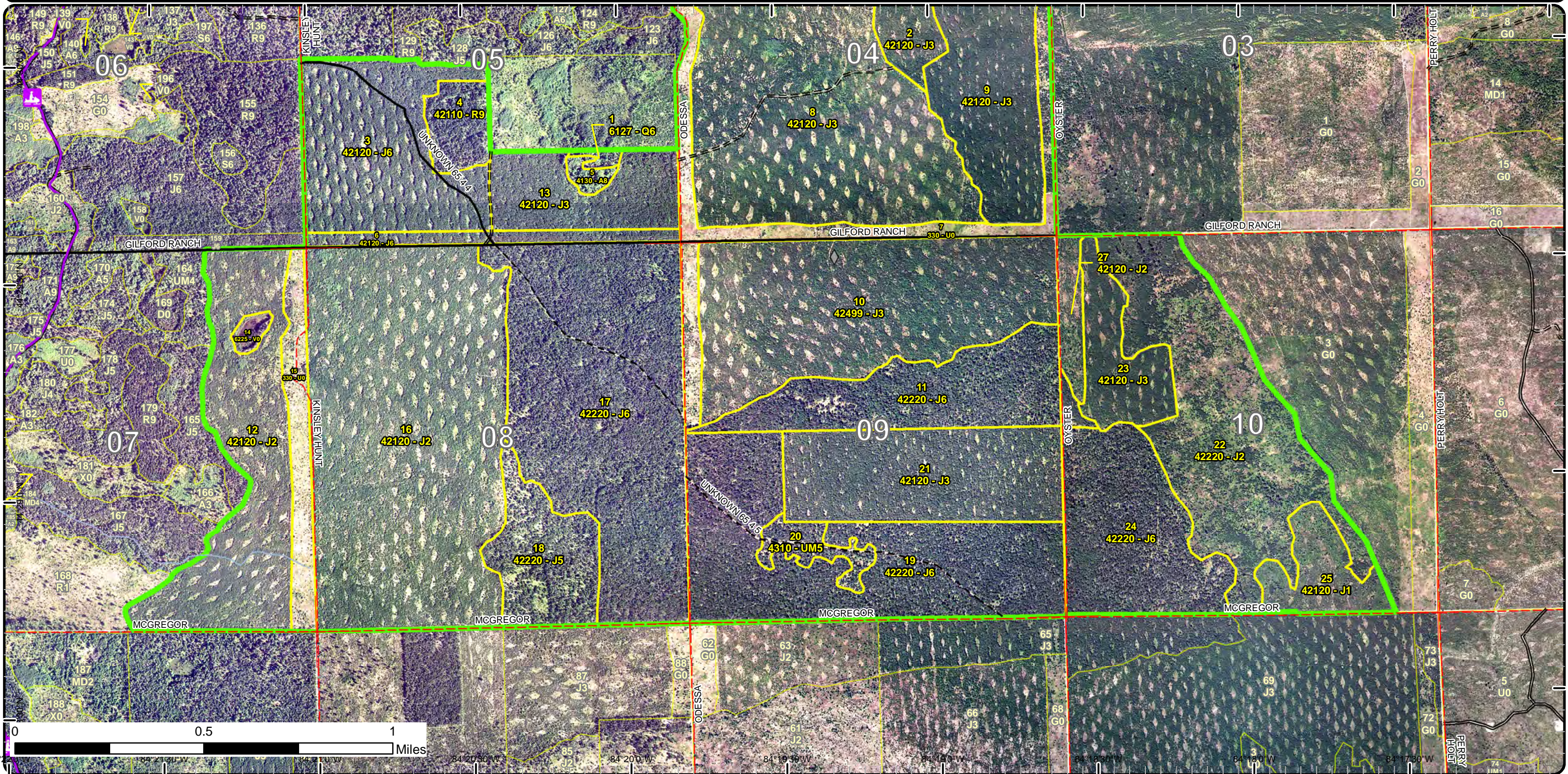
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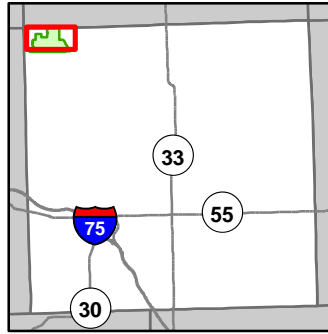


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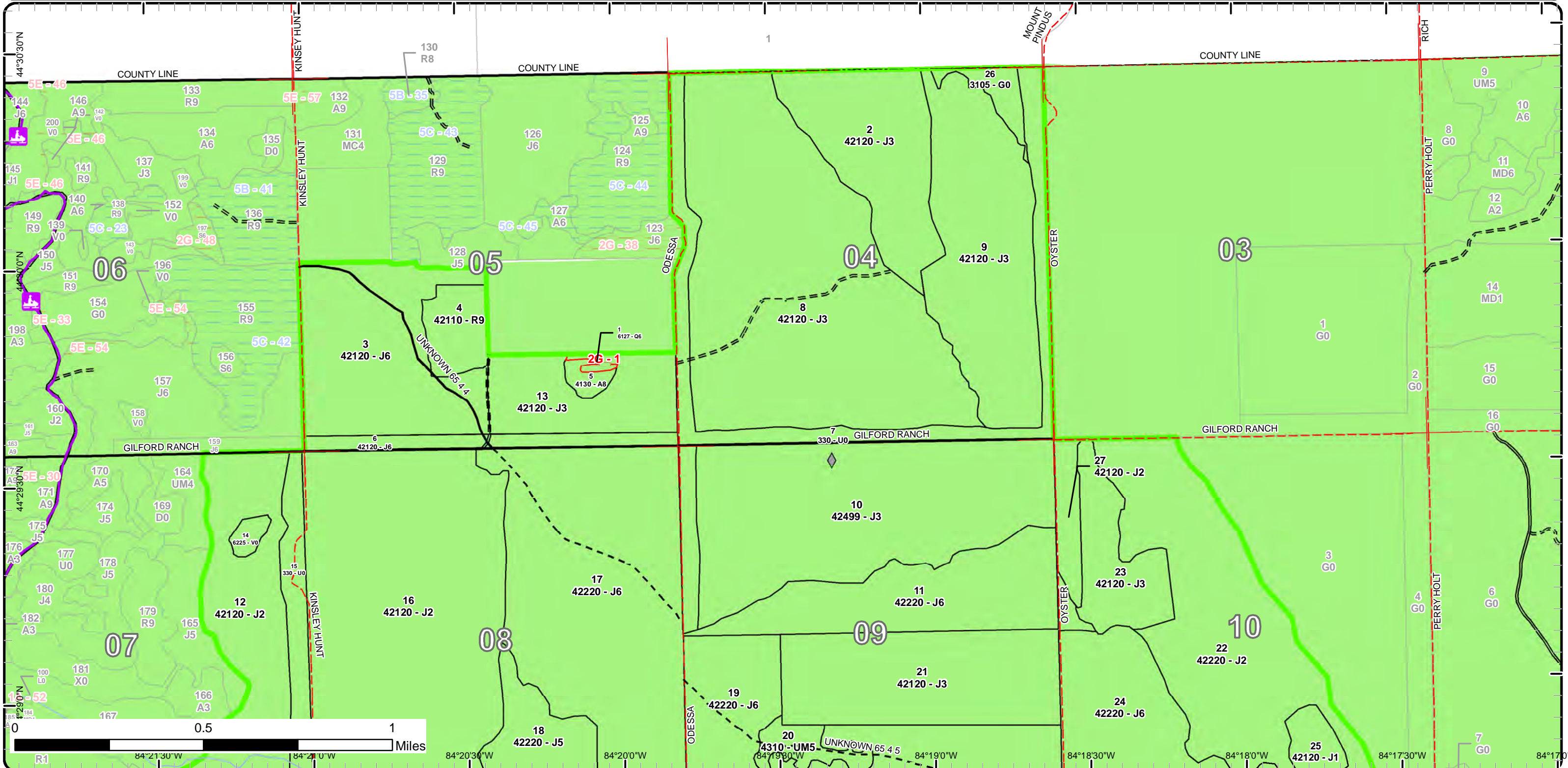


Special Conservation Areas

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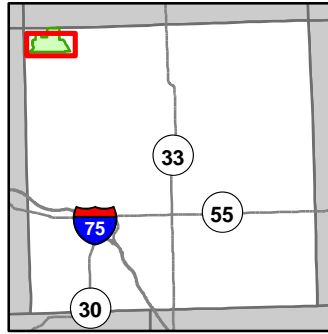


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- Unavailable
- Stand Boundaries
- Kirtland Warbler Habitat
- Cold Water Streams
- 2G: Too wet (sensitive soils, does not include access issues)

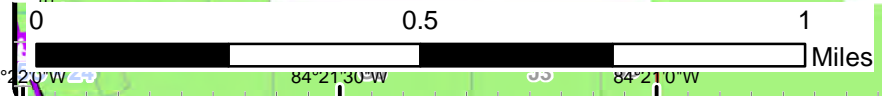
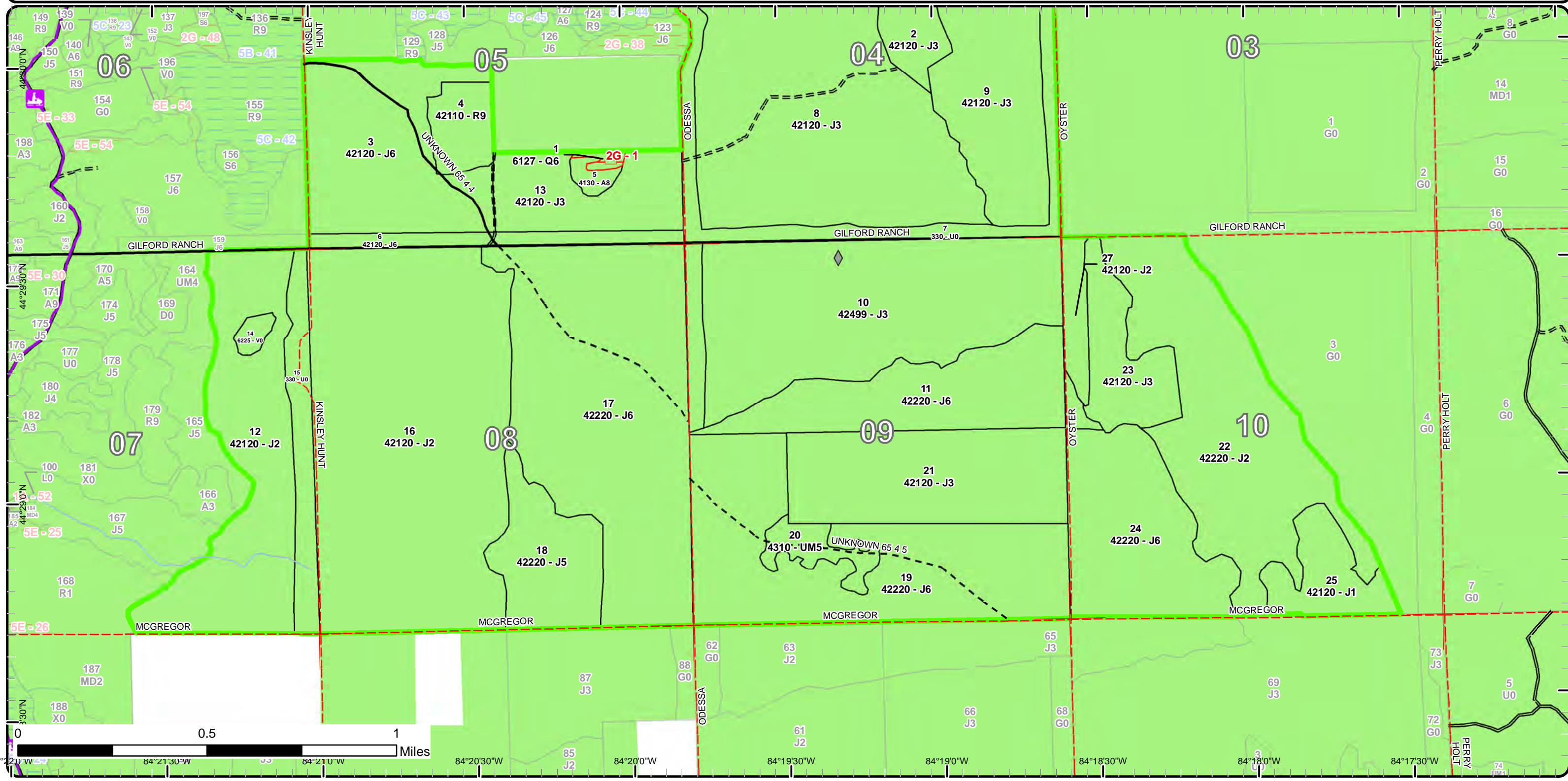


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Report 1 – Total Acres by Cover Type and Age Class



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	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Jack Pine	0	0	1137	368	322	187	520	0	0	0	0	0	0	0	0	0	0	0	2534
Low-Density Trees	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
Lowland Conifers	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	24
Upland Mixed Forest	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17
Total	142	0	1137	368	322	204	547	6	0	0	0	0	0	0	0	0	0	0	2726



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 72
Total Compartment Acres: 2,724

Commercial Harvest - 1058
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	6	0	0	0	0	0	0	0	0	6
Jack Pine	1029	0	0	0	0	0	0	0	0	1029
Red Pine	0	0	0	0	24	0	0	0	0	24
Total	1034	0	0	0	24	0	0	0	0	1058

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	1058	0	0	0	125	0	0	0	0	1183
Next Step	0	1029	323	0	23	0	1482	0	0	2857
Total	1058	1029	323	0	148	0	1482	0	0	4040



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:

3	71072003-Cut	178.2	42120 - Planted Jack Pine	Poletimber Well	39		Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> final harvest all species to two inches. Chip tops to prepare for trenching. No retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> planted jack pine to KW standards</p> <p><u>Regen:</u></p> <p><u>Other</u> Sale prep is to be delayed to Fiscal year 2024. Sale is to be ready to trench by 2028 and planted in 2029. Stand is too be placed into a sale</p> <p><u>Comment:</u> just containing other jack pine plantations for bidding purposes and reforestation concerns. If not able to sell commercially, find alternative means to restart jack pine for future KW habitat.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
4	71072004-Cut	23.6	42110 - Planted Red Pine	Sawtimber Well	56	111- 140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Manage for best red pine in place. Remove all jack pine and oak, then mark to remove suppressed/deformed, low quality red pine trees.</p> <p><u>Specs:</u> Want residual basal area to range between 80-100.</p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Sale prep is to be delayed to Fiscal year 2024 to coincide with KW treatment. Make this a part of that sale because of the stands small</p> <p><u>Comment:</u> acreage and logistics.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
5	71072005-Cut	5.5	4130 - Aspen	Sawtimber Medium	67	81-110	Harvest	Clearcut	4132 - Aspen, Jack Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees and chip. No Retention.</p> <p><u>Specs:</u> Will be A3 in the midst of J3 when stand regenerates. Plant jack pine for KW up to the edges of the aspen</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of aspen and planted jack pine to a fully stocked stand</p> <p><u>Regen:</u></p> <p><u>Other</u> Sale prep is to be delayed to Fiscal year 2024. Sale is to be ready to trench by 2028 and planted in 2029</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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6	71072006.1_C ut	11.6	42120 - Planted Jack Pine	Poletimber Well	39		Harvest	Clearcut	3102 - Grass	No
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Prescription Final harvest all trees and chip. Will be converted to a fuel break. Harvest with Stand 37 to south.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable none.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

6	71072006-Cut	11.2	42120 - Planted Jack Pine	Poletimber Well	39		Harvest	Clearcut	3102 - Grass	No
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Prescription Final harvest all trees and chip. Will be converted to a fuel break.

Specs:

Next Step Burn, Fuel Break

Treatments:

Acceptable none

Regen:

Other

If not able to remove trees through a commercial harvest, will look at alternate means to establish this as a fuel break.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

7	71072007- Burn	88.1	330 - Low-Density Trees	Nonstocked			Burn	Fuel Break	3105 - Mixed Upland Herbaceous	No
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Prescription periodic burns to set back natural regeneration of jack pine and other higher volatile species.

Specs:

Next Step Monitoring, Prescribed Burn

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

11	71072011-Cut	97.7	42220 - Natural Jack Pine	Poletimber Well	56	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
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Prescription final harvest all species to two inches. Do not chips tops. All branch materials bearing cones are to left scattered uniformly across the cut area to facilitate natural regeneration.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable natural jack pine seeding to KW standards

Regen:

Other

Sale prep is to be delayed to Fiscal year 2025. Sale is desired to have regeneration started by 2029 so sale must be completed by June 1, 2028. Site will require an FTP requiring site to be scarified with a disc to promote natural seeding from cones left post-harvest.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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15	71072015.9_B urn	36.8	330 - Low-Density Trees	Nonstocked			Burn	Fuel Break	310 - Herbaceous Openland	No
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Prescription Periodic burns to create a fuel break.

Specs:

Next Step Monitoring, Other - Specify

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2018

21	71072021-Cut	120.9	42120 - Planted Jack Pine	Sapling Well	31	Immature	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Final harvest all species to two inches and chip the tops to prepare the site to be trenched.

Specs:

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

Treatments:

Acceptable jack pine planted to KW specifications.

Regen:

Other Sale prep is to be delayed to Fiscal year 2024. Sale is to be ready to trench by 2028 and planted in 2029. Stand is to be placed into a sale just containing other jack pine plantations for bidding purposes and reforestation concerns.

Comment:

If not able to sell commercially, find alternative means to restart jack pine for future KW habitat.

Site Condition

Proposed Start Date: 10/1 /2024

24	71072024-Cut	107.5	42220 - Natural Jack Pine	Poletimber Well	55	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
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Prescription final harvest all species to two inches. Do not chip tops. All branch materials bearing cones are to be left scattered uniformly across the cut area to facilitate natural regeneration. Mark about half dozen large red pines for future snags/diversity.

Specs:

Next Step SitePrep, Trenching; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable natural jack pine stocking to KW standards.

Regen:

Other Sale prep is to be delayed to Fiscal year 2025. Sale is desired to have regeneration started by 2029 so sale must be completed by June 1, 2028. Site will require an FTP requiring site to be scarified with a disc to promote natural seeding from cones left post-harvest.

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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
17 71172037-Cut	254.5	42220 - Natural Jack Pine	Poletimber Well	58		Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest all species to two inches. Do not chips tops. All branch materials bearing cones are to left scattered uniformly across the cut area to facilitate natural regeneration. Exclude the 1+ acre red pine inclusion at the northwest end of the stand. Leave this mature pine pocket for diversity.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> Natural jack pine stocking to KW standards</p> <p><u>Other Comment:</u> Sale prep is to be delayed to Fiscal year 2025. Sale is desired to have regeneration started by 2029 so sale must be completed by June 1, 2028. Site will require an FTP to requiring site to be scarified with a disc to promote natural seeding from cones left post-harvest..</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
18 71172040-Cut	60.0	42220 - Natural Jack Pine	Poletimber Medium	50		Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest all species to two inches. Do not chips tops. All branch materials bearing cones are to left scattered uniformly across the cut area to facilitate natural regeneration.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> natural jack pine to KW standards.</p> <p><u>Other Comment:</u> Sale prep is to be delayed to Fiscal year 2025. Sale is desired to have regeneration started by 2029 so sale must be completed by June 1, 2028. Site will require an FTP to requiring site to be scarified with a disc to promote natural seeding from cones left post-harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
19 71172047-Cut	186.9	42220 - Natural Jack Pine	Poletimber Well	44	Unspec ified	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription Specs:</u> final harvest all species to two inches. Do not chips tops. All branch materials bearing cones are to left scattered uniformly across the cut area to facilitate natural regeneration. 5 chain fuel break is to be left on the west side post-harvest. Dip into stand 20 where feasible to remove pockets of mainly pine to expand this stand and leave the areas with higher oak concentrations.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; ; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> natural stocking of jack pine to KW standards.</p> <p><u>Other Comment:</u> Sale prep is to be delayed to Fiscal year 2025. Sale is desired to have regeneration started by 2029 so sale must be completed by June 1, 2028. Site will require an FTP requiring site to be scarified with a disc to promote natural seeding from cones left post-harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment 1182.5
Acreage Proposed:

Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 72

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	
6	6	0	0	Aspen	
5	5	0	0	Bog	
12	12	0	0	Herbaceous Openland	
2533	2533	0	0	Jack Pine	
125	125	0	0	Low-Density Trees	
3	0	0	3	Lowland Conifers	3
24	24	0	0	Red Pine	
17	17	0	0	Upland Mixed Forest	
2,724	2,721		3	Total Forested Acres	3
	100%		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	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	6127 - Lowland Pine	Poletimber Well	3.0	57	81-110	N/A	Small white pine stand on ridges with small low depression of leatherleaf between these ridges. Adjoins federal land to the north,			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		79	Pole/Log/XLog	8	57	White Pine		Medium	Variable	Sapling
Balsam Fir		6	Pole/Sapling	5		Tag Alder		Low	5 - 10 feet	Tall Shrub
Blue Spruce		10	Pole/Sapling	6		Balsam Fir		Low	Variable	Sapling
2	42120 - Planted Jack Pine	Sapling Well	90.8	17	Immature	N/A	KW plantation planted in 2002. Planted at a higher density than stand 8 which resulted in smaller diameter.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		95	Sapling	2	17					
3	42120 - Planted Jack Pine	Poletimber Well	119.5	39		N/A	Planted at a more open spacing with trees and large weave openings than stand 13 resulting in slightly larger diameter. Those tree over 5 inches have close to two sticks in them.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		97	Pole/Sapling	5	39					
4	42110 - Planted Red Pine	Sawtimber Well	23.6	56	111-140	N/A	Appears to be a partially failed red pine plantation that is just coming into log size. Stand is mixed in with jack pine. Some oak stump sprouts and cherry present in understory. East end is used for a deer camp.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		70	Log/Pole	10	56					
Jack Pine		30	Pole/Sapling	7						
5	4130 - Aspen	Sawtimber Medium	5.5	67	81-110	N/A	Small island of quaking aspen within the jack pines. Old fire plow furrows on north end of stand. The aspen is poor quality and showing signs of decline. The understory is open with some aspen sprouts that are being heavily browsed. Needs to be treated to restart.			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		88	Log/Pole	10	67					
Jack Pine		12	Pole/Sapling	5						
6	42120 - Planted Jack Pine	Poletimber Well	22.9	39		N/A	Fuel break that got planted. Final harvest and then maintain as a fuel break.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		97	Sapling/Pole	4	39					
7	330 - Low-Density Trees	Nonstocked	88.1			No	Fuel breaks that were not planted but have natural regeneration starting to fill them in. Either need to maintain with periodic prescribed burns or other mechanical means.			
Sub-Canopy Species		Density	Avg. Height	Size						
Pin Cherry		Low	5 - 10 feet	Sapling						
Jack Pine		Medium	5 - 10 feet	Sapling						
8	42120 - Planted Jack Pine	Sapling Well	311.4	17	Immature	N/A	KW plantation planted in 2002 at a lesser trees per acres than stand 2 which resulted in slightly larger diameter.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		95	Sapling	3	17					
9	42120 - Planted Jack Pine	Sapling Well	139.3	23	Immature	N/A	PLANTED 1996 AFTER PERRY-HOLT III FIRE 5/95			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		95	Sapling/Pole	4	23					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
10	42499 - Jack Pine (OI)	Sapling Well	208.6	17	Immature	N/A	OPIC - FMD: K.W. Plantation																											
11	42220 - Natural Jack Pine	Poletimber Well	97.7	56	81-110	N/A	Natural jack pine stand. Some red pine mixed in especially on the west end. Some small natural openings. Some areas are 2 aged from past wildfire disturbance.																											
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12	42120 - Planted Jack Pine	Sapling Medium	141.3	18		N/A	cut 1999, planted 2000 to jack pine in opposing weave pattern for KW, growing well. The open "weaves" are filling in with cherry.																											
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Jack Pine	91	Sapling	3	18																														
13	42120 - Planted Jack Pine	Sapling Well	58.7	39		N/A	Planted at a tighter spacing with rows and weave openings being smaller. The diameter on average is slightly less than stand 3. Those trees over 5 inches have one stick in them.																											
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14	6225 - Bog	Nonstocked	4.9			No	Leatherleaf bog with a pine perimeter.																											
15	330 - Low-Density Trees	Nonstocked	37.0			No	Fair amount of cherry brush with some scattered jack pine saplings in clumps starting.																											
16	42120 - Planted Jack Pine	Sapling Medium	329.9	18		N/A	cut 1999, planted 2000 to jack pine in opposing weave pattern for KW, growing well. Oak and cherry filling in the open weave portions.																											
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17	42220 - Natural Jack Pine	Poletimber Well	254.5	58		N/A	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.																											
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18	42220 - Natural Jack Pine	Poletimber Medium	60.0	50		N/A	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.																											
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19	42220 - Natural Jack Pine	Poletimber Well	186.9	44	Unspecified	N/A	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.																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																						
20	4310 - Pine, Oak Mix	Poletimber Medium	16.9	44	51-80	N/A	Jack pine stand under an oak sawlog canopy. Two-aged stand. Very open spacing. Used for dispersed camping. Leave stand for diversity at this time. Stands size may decrease as the surrounding pine is removed and pure pockets of pine in this stand can be removed easily by the adjacent harvest.																						
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21	42120 - Planted Jack Pine	Sapling Well	120.9	31	Immature	N/A	planted 1987 to opposing weave pattern for KW, scattered pole size jack pine left as residual.																						
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22	42220 - Natural Jack Pine	Sapling Medium	182.8	23	Immature	N/A	Stand burnt in 1995 during the Perry Holt III Fire. Few pockets of pole plus sized jack pine and a few red pine survived the fire and are scattered mostly in the northern portion of the stand. Stocking is on the lower end of the scale with the highest closure concentration being in the northern tip.																						
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23	42120 - Planted Jack Pine	Sapling Well	46.0	23	Immature	N/A	Planted in 1996 after the Perry Holt III wildfire.																						
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24	42220 - Natural Jack Pine	Poletimber Well	107.5	55	81-110	N/A	Nice natural stand of jack pine with trace amounts of oak and jack pine regeneration. Cut the stand and regenerate naturally.																						
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Northern Pin Oak	Trace	5 - 10 feet	Sapling																										
25	42120 - Planted Jack Pine	Sapling Poor	37.7	13	Immature	N/A	Part of the Perry Holt fire that did not regeneration post-fire and was planted to jack pine in 2006.																						
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Jack Pine	95	Sapling	2	13																									
26	3105 - Mixed Upland Herbaceous	Nonstocked	11.8			No	Open grass area with jack pine, cherry brush, and some oak filling in scattered all about evenly.																						
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27	42120 - Planted Jack Pine	Sapling Medium	17.0	17	Immature	N/A	Stand burnt in 1995 under the Perry Holt III wildfire. Did not regenerate naturally and was subsequently planted in 2002 to jack pine.																						
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