



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71079

Entry Year 2020

Acreage: 3,047

County Ogemaw

Management Area: Kirtland's Warbler

Revision Date: 2018-07-25

Stand Examiner: Jason Lewicki

Legal Description:

T24N, R01E S. 24, 25, 36

T24N, R02E S. 18, 19, 20, 29, 30, 31, 32,

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 Graycalm Mancelona and Klacking sands. The compartment is generally flat with the exception on the NE area that has some rolling hills.

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

Ownership throughout the compartment is primarily under State ownership. There is some private land to the south.

Unique Natural Features:

Much of the compartment is within the Damon Kirtlands Warbler management Block.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Much of the compartment is within the Damon Kirtlands Warbler management Block.

Watershed and Fisheries Considerations:

None

Wildlife Habitat Considerations:

Kirtland's Warbler MA. Manage per KW plan.

Mineral Resource and Development Concerns and/or Restrictions

Sections 18-20 & 29-32, T24N-R2E and sections 24-25 & 36, T24N-R1E, Ogemaw County

Active sand/gravel pits are not located in the area, but sand & gravel potential appears to be very good within the compartment. The compartment is within the Rose City Field. The field has been in production since the 1950s and is mostly in secondary recovery operations. It is unlikely that additional wells will be drilled within the compartment. Most of the state-owned mineral rights within the compartment are currently leased and held by production. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access is very good throughout the compartment. There are numerous county roads and state forest two tracks within the compartment.

Survey Needs:

Possible survey needed for stand 72 harvest.

Recreational Facilities and Opportunities:

There two designated trails within the compartment: Snowmobile trail #6 occurs on Heath Road; Rose City 50" ORV trail in a small portion of stand 61 in Section 20. The dominate pine cover type is in contrast to mixed forest cover types east of here which attract hunters, and dispersed camping.(A.2018)

Fire Protection:

This compartment is largely high hazard Jack pine fuel type of various age classes. This compartment is within the Zone 3 pre-planned response area. There is a history of large fires in this area. Access is good within the compartment.

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**

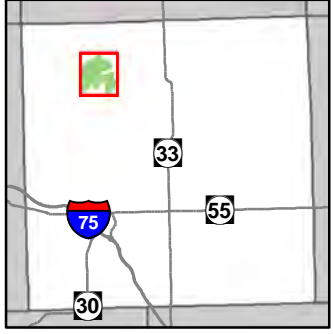
The following information is displayed, where pertinent, on the attached compartment maps:

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

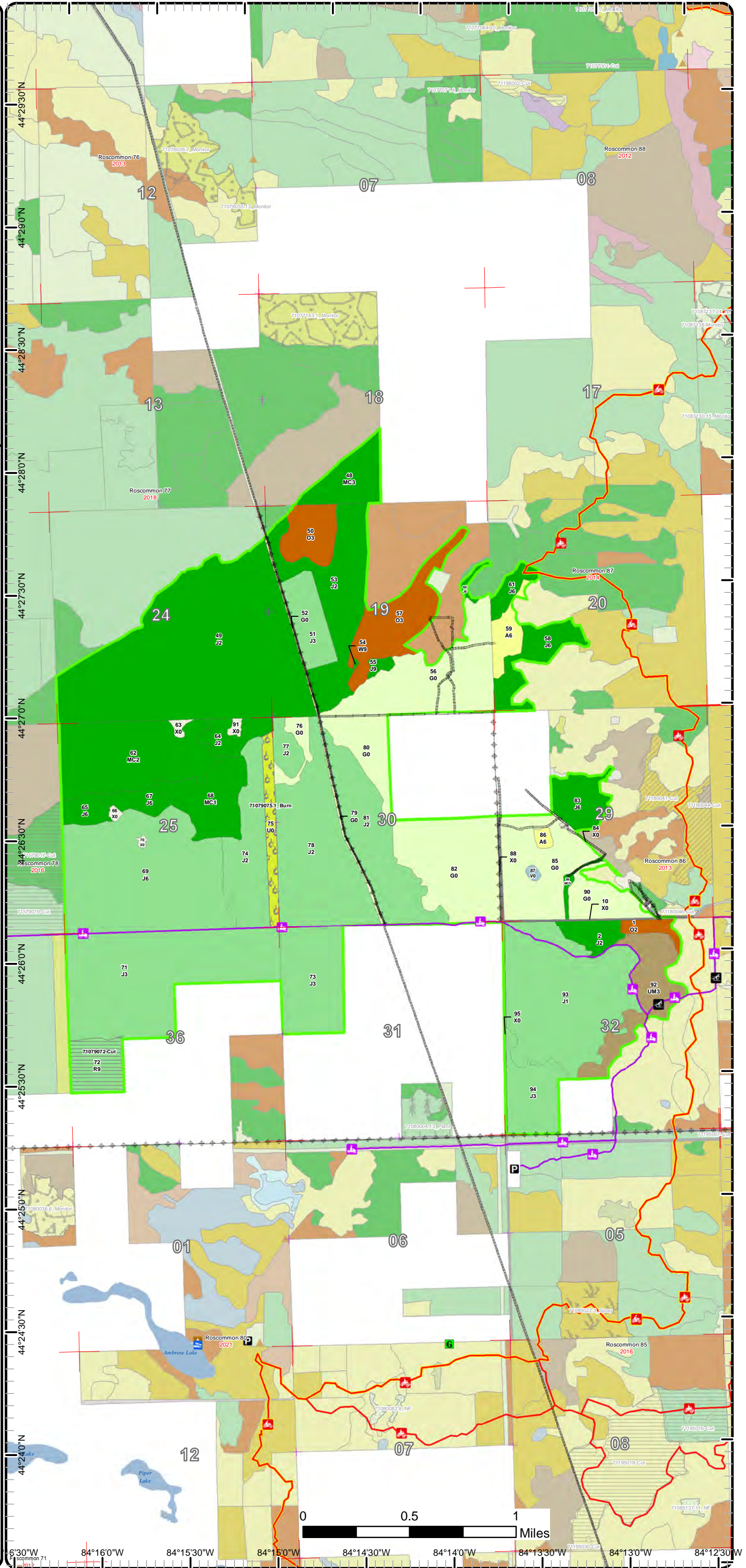
Cover Type & Treatments Map

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 T24N, R01E, Sec. 24, 25, 36

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 Acres: 3,047 GIS Calculated
 Examiner: Jason Lewicki
 Map Revised: 12/27/2018
 Map Phase: Post-Review



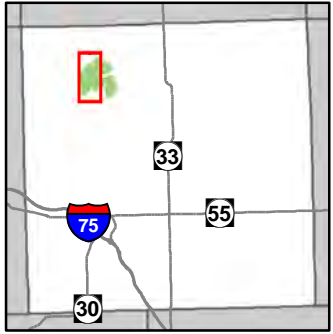
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- ▭ Pipeline
- ▭ Powerline
- ▭ Compartment Boundary
- ▭ Clearcut (w/Reserves)
- ▭ Prescribed Burn
- ▭ 412 - Oak Types
- ▭ 413 - Aspen
- ▭ 421 - Planted Pines
- ▭ 422 - Natural Pines
- ▭ 430 - Upland Mixed Forest
- ▭ 122 - Roads/Parking Lot
- ▭ 310 - Herbaceous Openland
- ▭ 330 - Low Density Trees
- ▭ 622 - Lowland Shrub
- ▭ 790 - Other Bare/Sparsely Vegetated



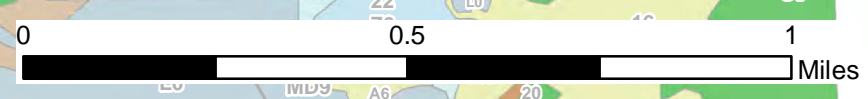
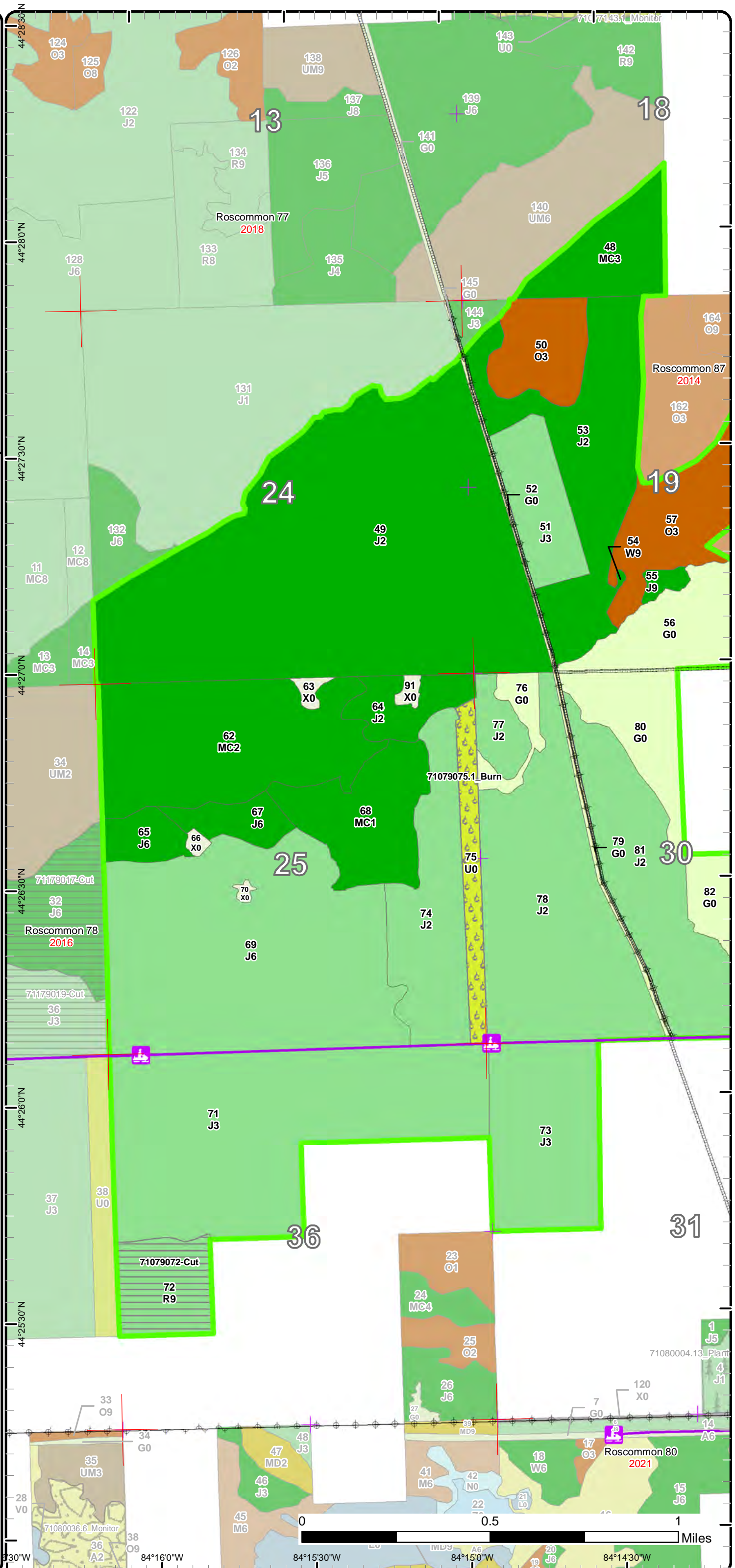
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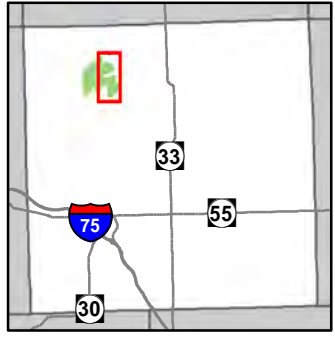


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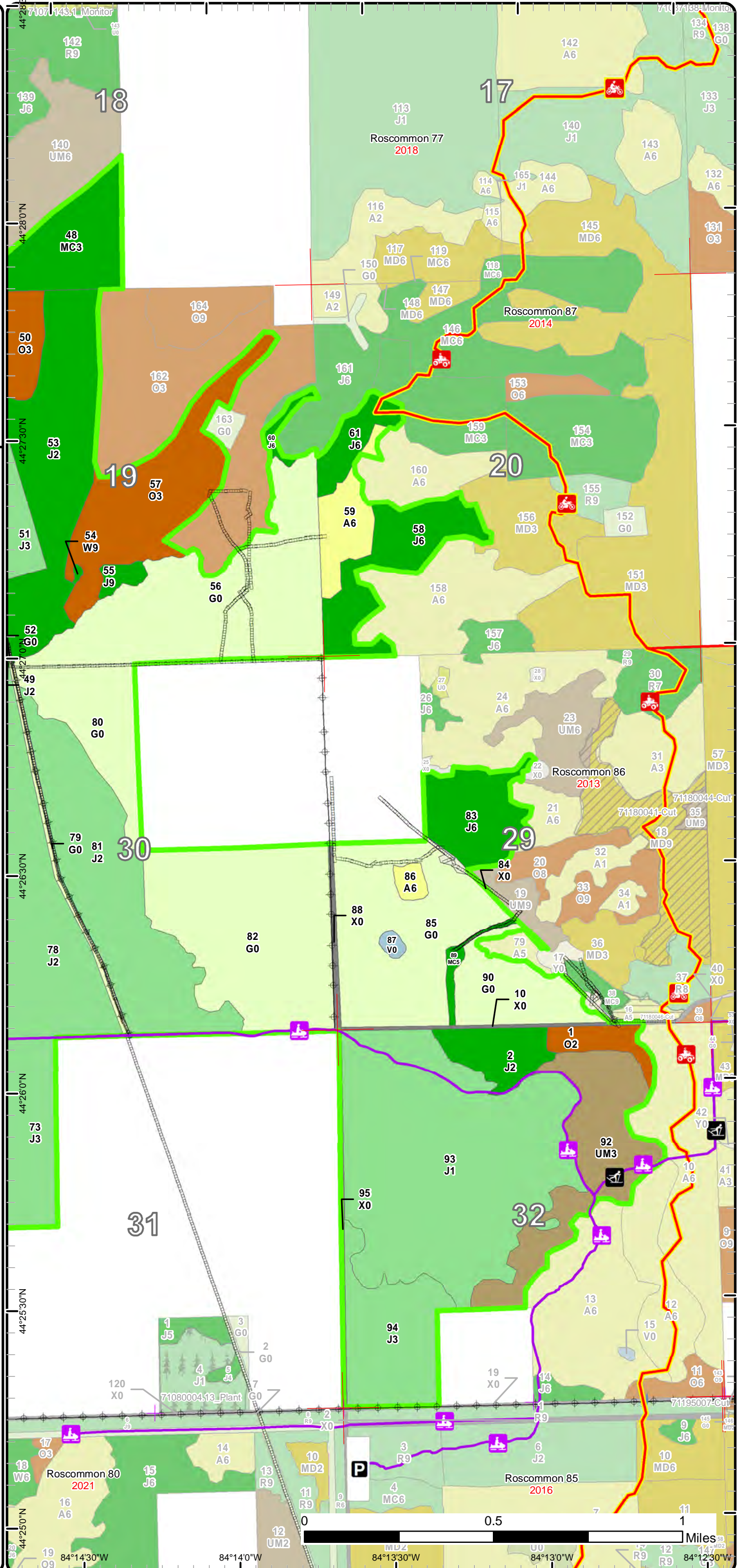
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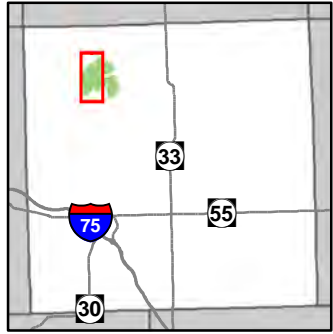
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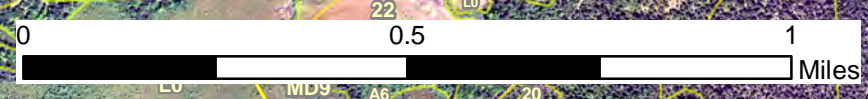
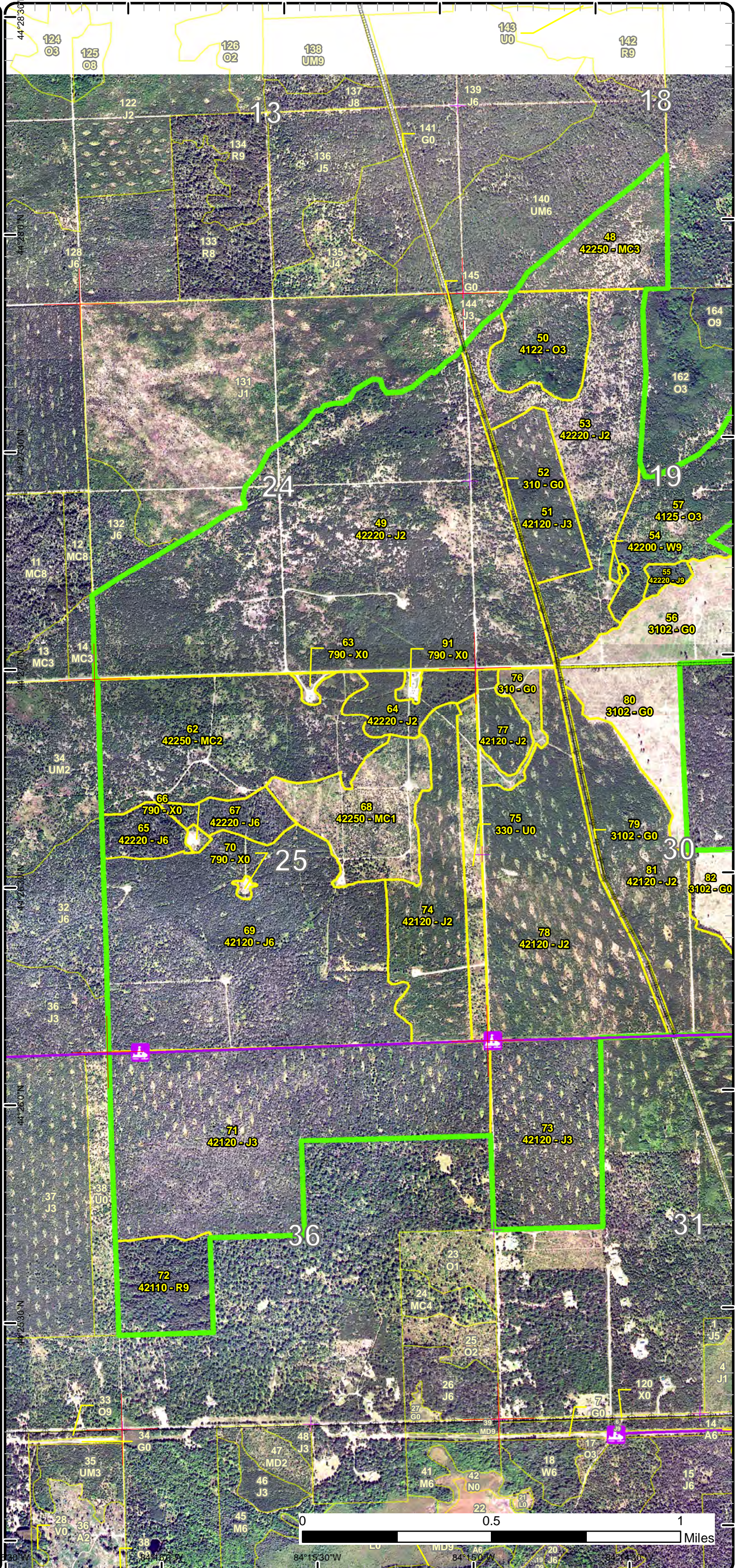
Stand Boundary Map

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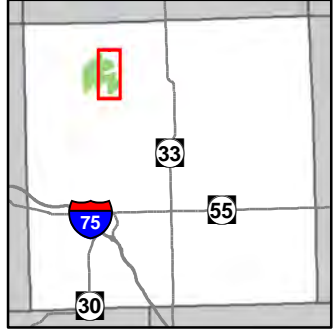


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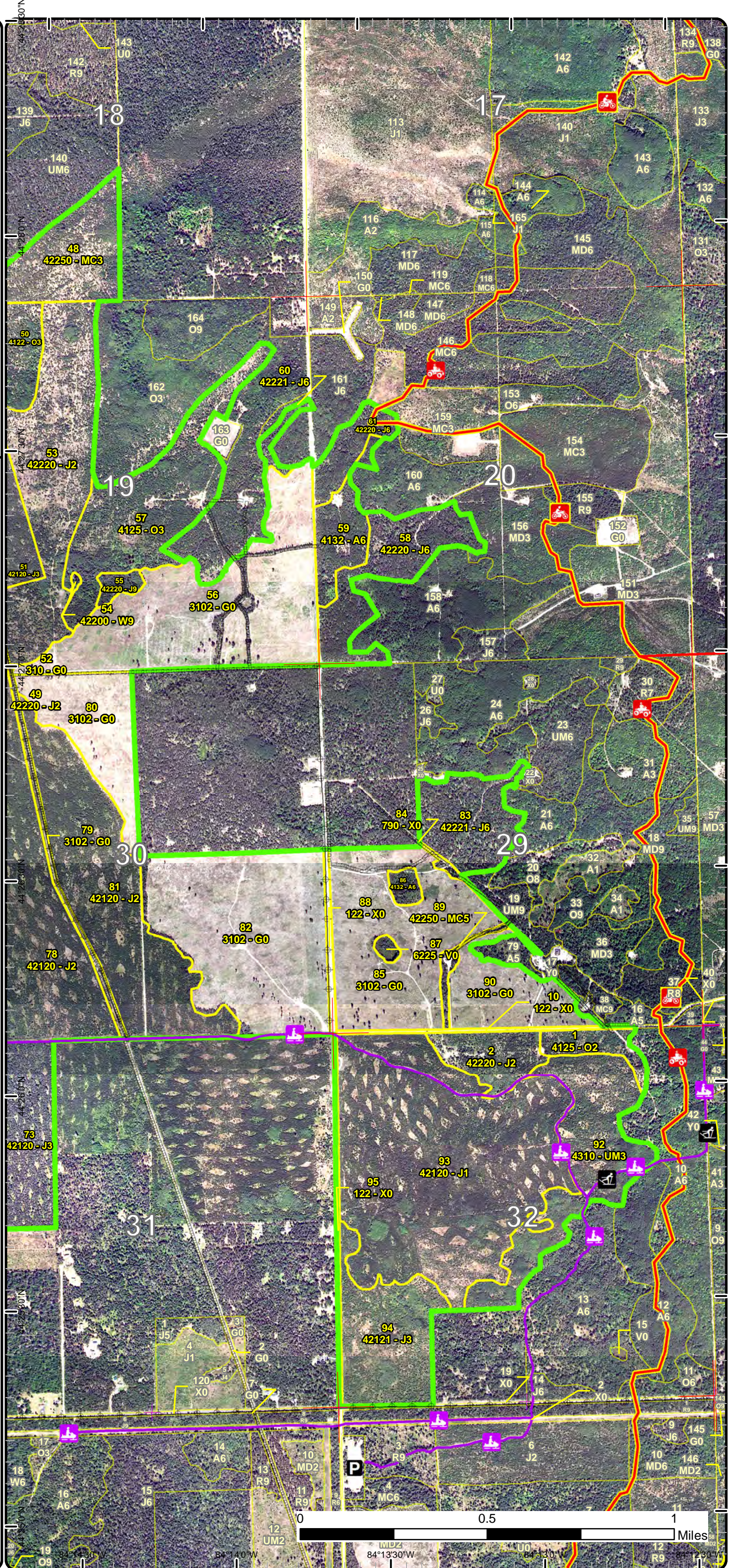
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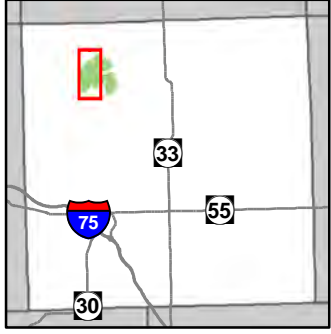
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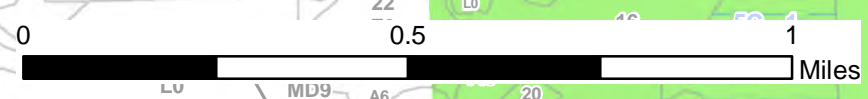
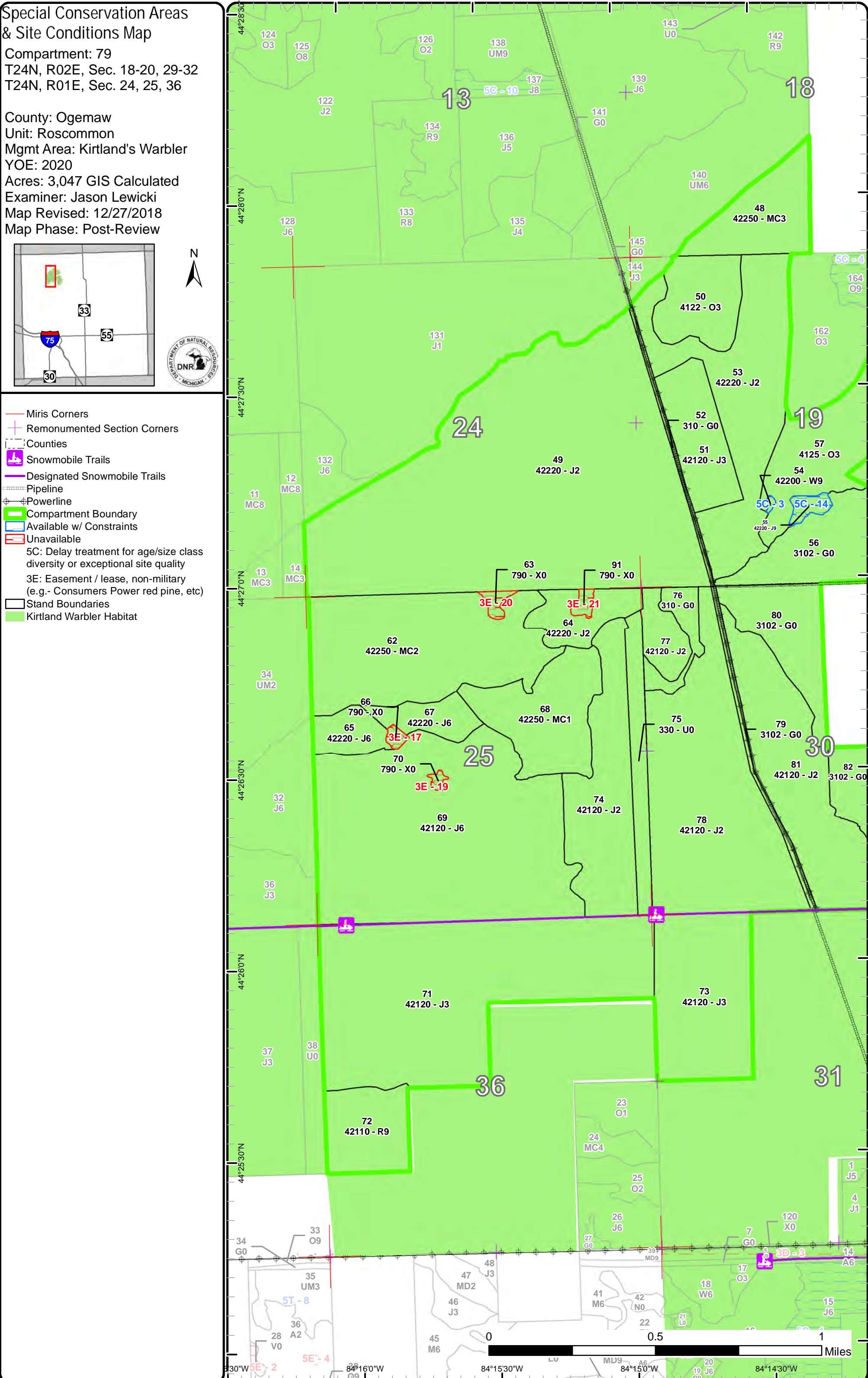
Special Conservation Areas & Site Conditions Map

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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- Stand Boundaries
- Kirtland Warbler Habitat



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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	27	0	0	0	0	0	0	0	0	0	0	0	27
Bare/Sparsely Vegetated	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	469	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	469
Jack Pine	0	0	672	116	1069	36	100	0	0	5	0	0	0	0	0	0	0	0	1998
Low-Density Trees	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Natural Mixed Pines	0	0	63	0	185	0	4	0	0	0	0	0	0	0	0	0	0	0	252
Oak	0	0	13	0	118	0	0	0	0	0	0	0	0	0	0	0	0	0	131
Red Pine	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	40
Upland Mixed Forest	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
White Pine	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	526	0	819	116	1372	36	131	0	0	46	0	1	0	0	0	0	0	0	3046



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 79
Total Compartment Acres: 3,047

Commercial Harvest - 40
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
Red Pine	41	0	0	0	0	0	0	0	0	41
Total	41	0	0	0	0	0	0	0	0	41

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	41	0	0	0	28	0	0	0	0	69
Next Step	0	109	41	0	28	41	81	28	0	327
Total	41	109	41	0	56	41	81	28	0	396

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
72 71079072-Cut	40.5	42110 - Planted Red Pine	Sawtimber Well	86	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Final harvest stand and reestablish a red pine plantation. Use all tools necessary to have a successful, free growing red pine plantation. Use site prep herbicide application to control hardwoods. Stand will most likely have a fair amount of oak growing in with it.

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

Acceptable planted red pine at fully stocked levels.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

75 71079075.1_Burn	28.1	330 - Low-Density Trees	Nonstocked		Unspecified	Burn	Fuel Break	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Control burn to remove forested canopy . Herbicide and roller chopping is another option to reach objective.

Specs:

Next Step SitePrep, Other - Specify; Burn, Fuel Break; Other, Other

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2017

**Total Treatment
Acreage Proposed: 68.6**

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 79
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions				
		With Condition	Not Available		5C	3E	3G	5E
27	5	0	23	Aspen			23	
12	3	0	9	Bare/Sparsely Vegetated		9		
2	2	0	0	Bog				
470	463	0	7	Herbaceous Openland			7	
1998	1993	5	0	Jack Pine	5			
28	28	0	0	Low-Density Trees				
253	249	0	4	Natural Mixed Pines				4
130	130	0	0	Oak				
40	40	0	0	Red Pine				
71	71	0	0	Upland Mixed Forest				
15	15	0	0	Urban				
1	0	1	0	White Pine	1			
3,047	2,999	6	42	Total Forested Acres	6	9	29	4
	98%	0%	1%	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	3G: Other Influence zones - See comments	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Contains above ground petroleum lines and well. Was left uncut and contains a J6 canopy.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 79
Year of Entry: 2020

5	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	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
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
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: 79	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2020	
1	4125 - Black, N. Pin Oak	Sapling Medium	12.8	16	Immature		
2	42220 - Natural Jack Pine	Sapling Medium	22.9	16	Immature	Some planted areas but it appears to be mostly natural. A few patches of older jack. Area may not have been planted due to oil lines.	
48	42250 - Pine, Oak	Sapling Well	48.1	30	Immature	Origin from Perry Holt Fire of 1988. Areas heavier to oak. A few scattered red pines.	
49	42220 - Natural Jack Pine	Sapling Medium	413.5	30	Unspecified	Regeneration from Perry Holt Fire (1987)	
50	4122 - Oak, Pine	Sapling Well	39.9	30	Immature	Fire generated oak stand from Perry Holt Fire.	
51	42120 - Planted Jack Pine	Sapling Well	43.1	30		Jack pine plantation.	
53	42220 - Natural Jack Pine	Sapling Medium	115.9	29	Immature	Natural jack pine stand regenerated from Perry Holt Fire(1988).	
54	42200 - Natural White Pine	Sawtimber Well	0.6	109	111-140	Small stand of large white pine.	
55	42220 - Natural Jack Pine	Sawtimber Well	5.0	89	51-80	Old jack pine stand with heavy mortality. Heavy white pine understory. Aspen pole timber on east side. Let succeed to white pine and oak.	
57	4125 - Black, N. Pin Oak	Sapling Well	77.7	30	Immature	Pin/black oak stand regenerated from Perry Holt fire. Stand has areas heavier to aspen. More jack pine in lower elevations to the west.	
58	42220 - Natural Jack Pine	Poletimber Well	45.0	51	51-80	Natural(fire generated) jack pine stand.	
59	4132 - Aspen, Jack Pine	Poletimber Well	22.5	51	51-80	Natural jack pine, oak and aspen stand from 1966 wildfire. Some older super canopy oak and pine present.	
60	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	4.6	38	51-80	Natural jack pine stand mixed with oak and some bigtooth aspen clones. some super canopy oak and pine present that survived the fire.	
61	42220 - Natural Jack Pine	Poletimber Well	16.2	51	51-80	Natural(fire generated) jack pine stand.	
62	42250 - Pine, Oak	Sapling Medium	137.4	30	Immature	Naturally regenerating jack pine from a wildfire.	
64	42220 - Natural Jack Pine	Sapling Medium	24.7	30	Unspecified	Natural jack pine regeneration from a wildfire. Very dense where pine is but have numerous open grass areas throughout. The large red pine survived the fire. Find some oaks from stump sprouting.	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	42220 - Natural Jack Pine	Poletimber Well	17.2	40	Unspecified	Some jack pine in the sawlog class but the majority is still in the 30+ year old pole class. Areas of mortality throughout stand in all age classes. Not much jack pine regeneration, but based on surrounding sites that were treated, the stand would come back to a mix of pine and oak if treated. Red pine occurs in pockets and mostly on the south end of the stand.
67	42220 - Natural Jack Pine	Poletimber Well	18.4	40		Better quality jack pine than stand to the south. Boles straighter and not bushy/deformed looking. Could be harvested but hold for age class because of adjacent KW cuts in this compartment.
68	42250 - Pine, Oak	Sapling Poor	63.3	18	Immature	Was final harvested in winter 1999/2000. Came back naturally very sparse to oak and jack pine. Numerous gas lines on the ground in the area, maybe this is why they did not incorporate it into the KW plantings to the immediate east.
69	42120 - Planted Jack Pine	Poletimber Well	250.8	33		Very poor quality jack pine with numerous mortality pockets. Barely get one stick out of pole size trees. Red pine in not very tall for diameter.
71	42120 - Planted Jack Pine	Sapling Well	239.7	38		KW plantation
72	42110 - Planted Red Pine	Sawtimber Well	40.5	86	111-140	1932 red pine plantation. Stand was thinned in prior entry years. Heavy advanced oak regeneration.
73	42120 - Planted Jack Pine	Sapling Well	93.2	34		KW plantation
74	42120 - Planted Jack Pine	Sapling Medium	83.1	17		planted to jack pine for KW in spring 2000. More stump sprouted oaks along the western edge.
77	42120 - Planted Jack Pine	Sapling Medium	17.2	18	Immature	planted to jack pine for KW in spring 2000.
78	42120 - Planted Jack Pine	Sapling Medium	169.4	17	Unspecified	planted to jack pine for KW in spring 2000.
81	42120 - Planted Jack Pine	Sapling Medium	110.8	17	Unspecified	planted to jack pine for KW in spring 2000
83	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	38.3	52	Unspecified	Right on the edge of being a sawlog class stand. There are sawlog jack pine in there but are dying. Have good oak and jack pine regeneration, so stand could be harvested and get good regeneration. However, there is a large amount of jack pine being currently treated in this compartment so feel it is best to hold another ten years to stagger age classes.
86	4132 - Aspen, Jack Pine	Poletimber Well	4.5	52	Unspecified	Regeneration from a wildfire. Two aspen clones with a band of jack pine in the middle. Was left for a visual buffer for the surrounding KW treatment. Aspen will hold another rotation and then can treat.

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Roscommon Mgt. Unit

Report 7 – Forested Stands

Compartment: 79
Year of Entry: 2020



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
89	42250 - Pine, Oak	Poletimber Medium	4.4	52	51-80	Strip of jack pine that contains above ground petroleum lines, a well pump and access road. Is used as fire whirl for KW planting on both sides. Leave as long term retention.
92	4310 - Pine, Oak Mix	Sapling Well	70.9	16	Immature	KW jack pine plantation with alot of hardwood competition from aspen and oak. More hardwoods on south and east sides.
93	42120 - Planted Jack Pine	Sapling Poor	212.9	16		KW plantation.
94	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	56.1	16		KW plantation with alot of oak competition.



Stand	Cover Type	Acres	Managed Site	General Comments:
10	122 - Road/Parking Lot	4.5	No	Heath Road, Class A.
52	310 - Herbaceous Openland	6.4	No	Pipeline
56	3102 - Grass	131.2		Stand harvested summer 2016. Stand was trenched in the summer 2016 for KW planting under FTP# W71-943.
63	790 - Other Bare/Sparsely Vegetate	3.0	No	Petroleum storage battery.
66	790 - Other Bare/Sparsely Vegetate	2.0	No	Oil well site.
70	790 - Other Bare/Sparsely Vegetate	1.3	No	Well head.
75	330 - Low-Density Trees	28.1	No	Fuel break that has not been treated. Very close to being forested, probably will be by next YOE.
76	310 - Herbaceous Openland	14.2	No	Unplanted grass buffer between two KW stands that contains a well pad and access roads.
79	3102 - Grass	9.8	Yes	Enbridge Energy buried petroleum line R.O.W..
80	3102 - Grass	46.6		Stand completed in Summer 2016. Stand was trenched in 2016 in preparation for KW planting, under FTP# W71-943.
82	3102 - Grass	127.6		Sale was completed in May 2016. Stand was trenched in 2016 in preparation for KW planting, under FTP# W71-943.
84	790 - Other Bare/Sparsely Vegetate	2.8	No	Overhead powerline clearing and buried petroleum lines.
85	3102 - Grass	96.6		Was final harvested Spring 2015 under sale # 71-007-14-01. Stand was trenched in 2016 in preparation for KW planting, under FTP# W71-943.
87	6225 - Bog	2.3	No	Leatherleaf bog with a ring of large red pine on the outer perimeter.
88	122 - Road/Parking Lot	5.0	No	Fairview Road, Class A to Muskegon Development Shop. Overhead powerline along west edge.
90	3102 - Grass	37.2		Was final harvested Spring 2015 under sale # 71-007-14-01. Stand was trenched in 2016 in preparation for KW planting, under FTP# W71-943.
91	790 - Other Bare/Sparsely Vegetate	2.6	No	Petroleum production facility/storage tanks.



Stand	Cover Type	Acres	Managed Site	General Comments:
95	122 - Road/Parking Lot	5.2	No	