



# Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71078

Entry Year 2018

Acreage: 1,199

County Roscommon

Management Area: Houghton Lake Wetlands

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**Revision Date:** 2016-06-07

**Stand Examiner:** Charles VanKalker

**Legal Description:**

T23N R4W sections 30, 31, and 32

**Identified Planning Goals:**

Vegetation management in the Houghton Lake Wetlands management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the aspen age-class distribution. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within the next decade are the need to continue to balance aspen age-class distributions, an expected increase in recreation pressure and invasive species encroachment.

**Soil and topography:**

This compartment is part of a large bog jack pine complex that is very flat. Digitized Kotar classification types the compartment as primarily PARVCo with inclusions of PARVHa. It transitions toward an oak ridge to the northeast where it is primarily PARVHa before going on to private land.

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

This compartment has nearly solid state ownership with two isolated 40 acre parcels. One is entirely wetland and the other is located along Reedsburg Flooding. There is a gravel pit in the northeast part of the compartment that is leased to the Roscommon County Road Commission.

**Unique Natural Features:**

Black tern, osprey, least bittern, river red-horse, great blue heron, wood turtle, spotted turtle, and Rainbow mussel have been identified in the vicinity. Potential exists for marsh wren, yellow rail, king rail, American bittern, common moorhen, and Blanding's turtle.

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

None known or detected during fieldwork.

**Special Management Designations or Considerations:**

None.

**Watershed and Fisheries Considerations:**

Parts of this compartment border the Muskegon River and Reedsburg Flooding.

**Wildlife Habitat Considerations:**

Deer sign is prevalent, with large concentrations of deer in the young jack pine.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and peat and muck. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Pennsylvanian Saginaw Formation and the Mississippian Bayport and Michigan Formations. The Saginaw is quarried for shale, the Bayport for limestone and the Michigan for gypsum elsewhere in the State. Most of the nearby gravel pits are associated with upland areas. There is a gravel pit in Section 32 and potential appears to be good. Enterprise Field is located one mile to the northwest. The field has produced over 4.7 million BO primarily from the Devonian Richfield Formation and is in secondary recovery operations currently. The Compartment is not currently leased.

**Vehicle Access:**

Limited vehicle access in this compartment. There is a closed road with a gate on the west side off of East County Line Rd.

There is a parking area on the south side off of M-55. Randall Tr. comes in from the east and you can access the north part of the compartment.

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

Snowmobile trail # 6/7 runs along the west edge of the compartment in section 30. Assure logging ahead signs are used notify vehicle operators of the logging activity Beyond the safety zone of roads hunters utilize the compartment for deer, rabbit, and other game species.

**Fire Protection:**

The combination of dense jack pine and poor access due to wet soils could make initial attack difficult in this compartment.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

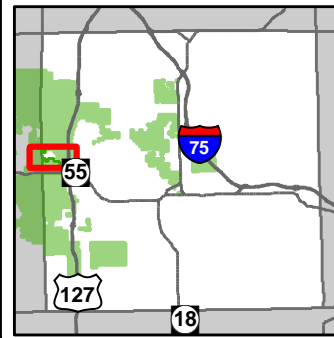
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

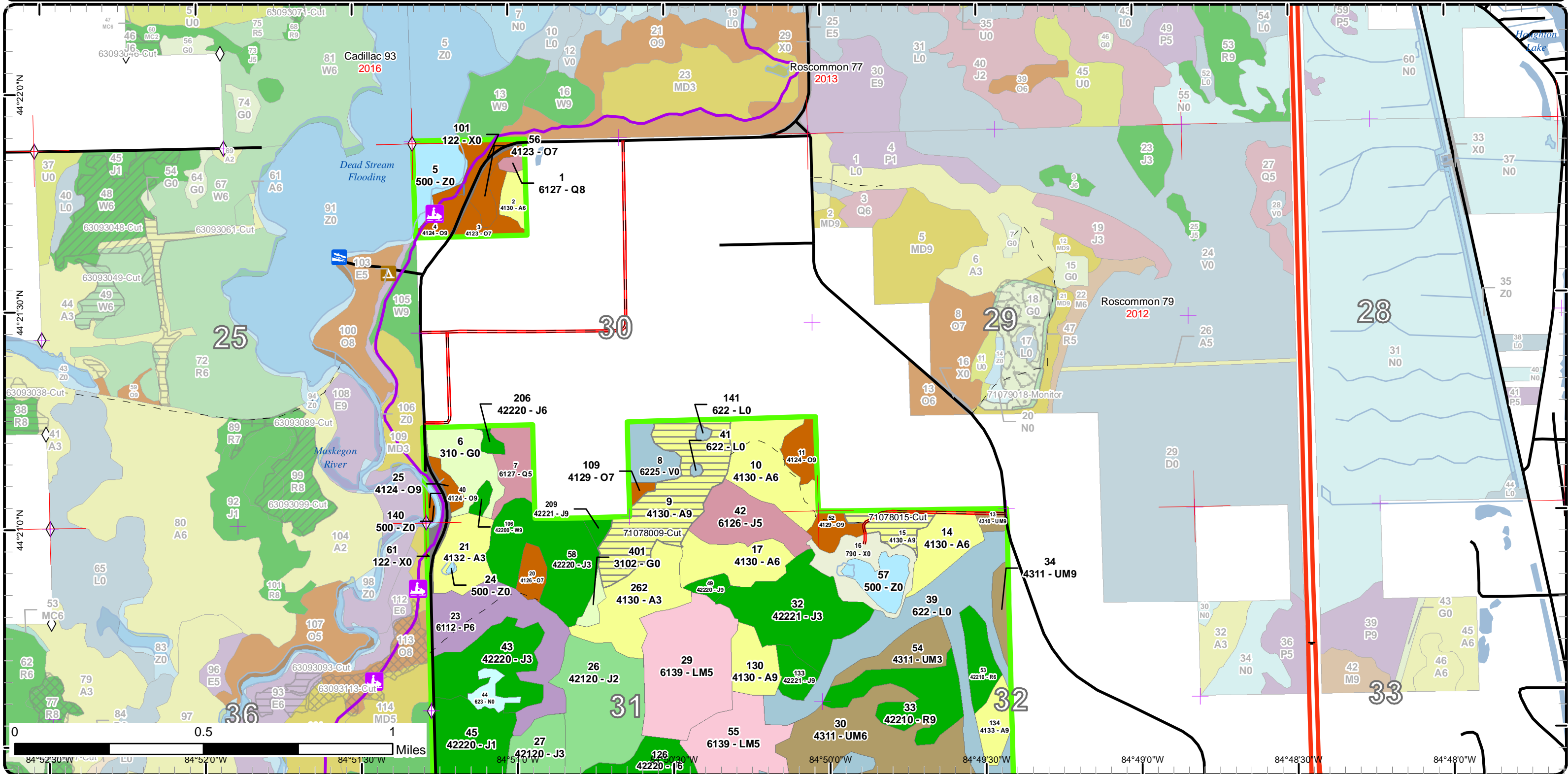
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 78  
 T23N, R04W, Sec. 30-32  
 County: Roscommon  
 Unit: Roscommon  
 Mgmt Area: Houghton Lake Wetlands  
 YOE: 2018  
 Acres: 1199 GIS Calculated  
 Examiner: Charles VanKalker  
 Map Revised: 2/9/2017  
 Map Phase: Post-Review

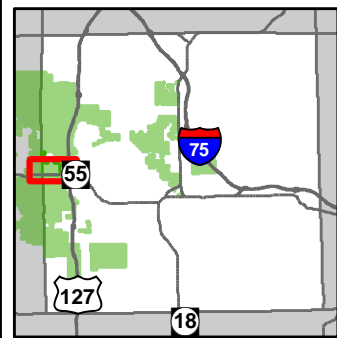


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Culverts
- Boating Access Site
- Campground
- Snowmobile Trails
- Designated Snowmobile Trails
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated
- Lakes

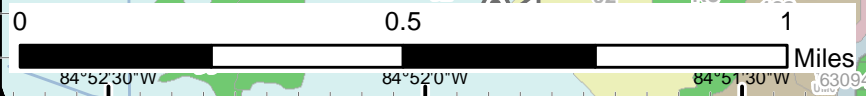
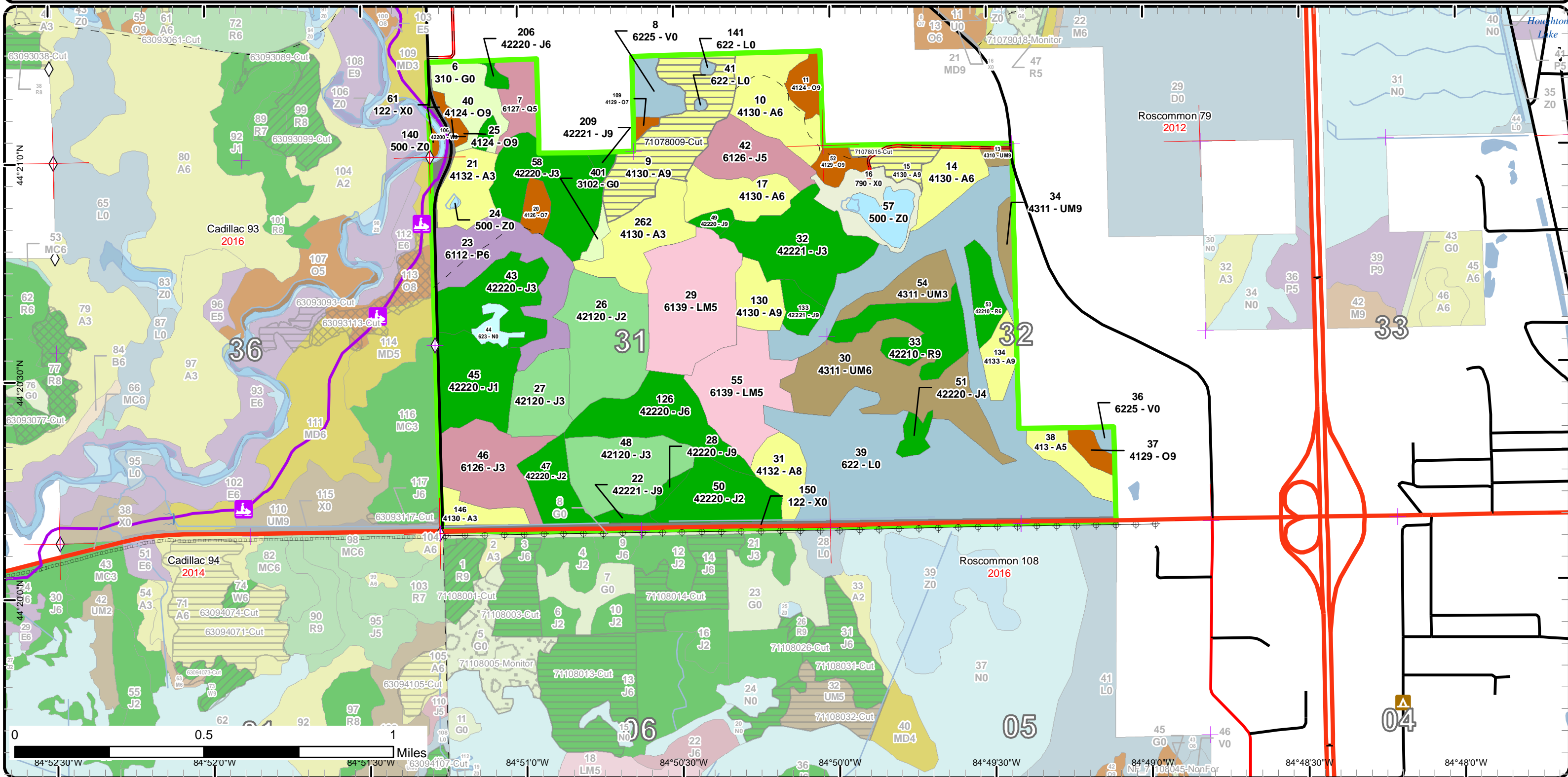


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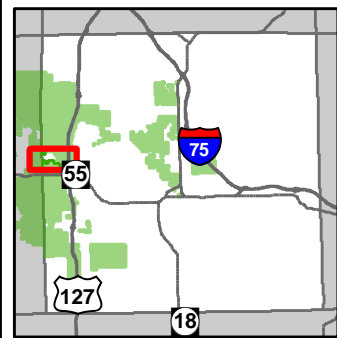
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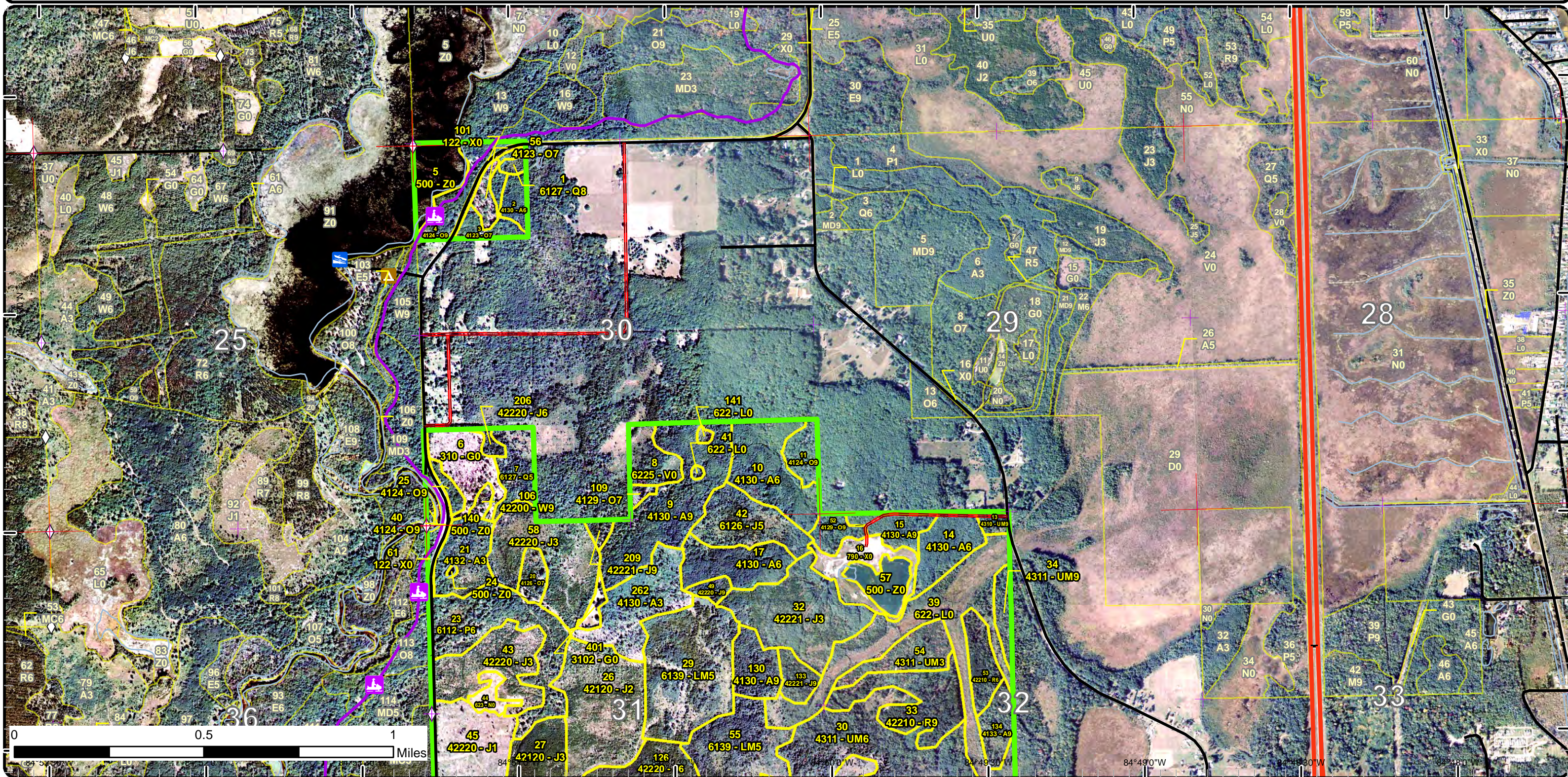
84°52'30"W 84°52'0"W 84°51'30"W 84°51'0"W 84°50'30"W 84°50'0"W 84°49'30"W 84°49'0"W 84°48'30"W 84°48'0"W

# Stand Boundary Map

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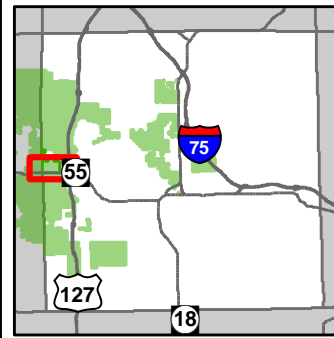


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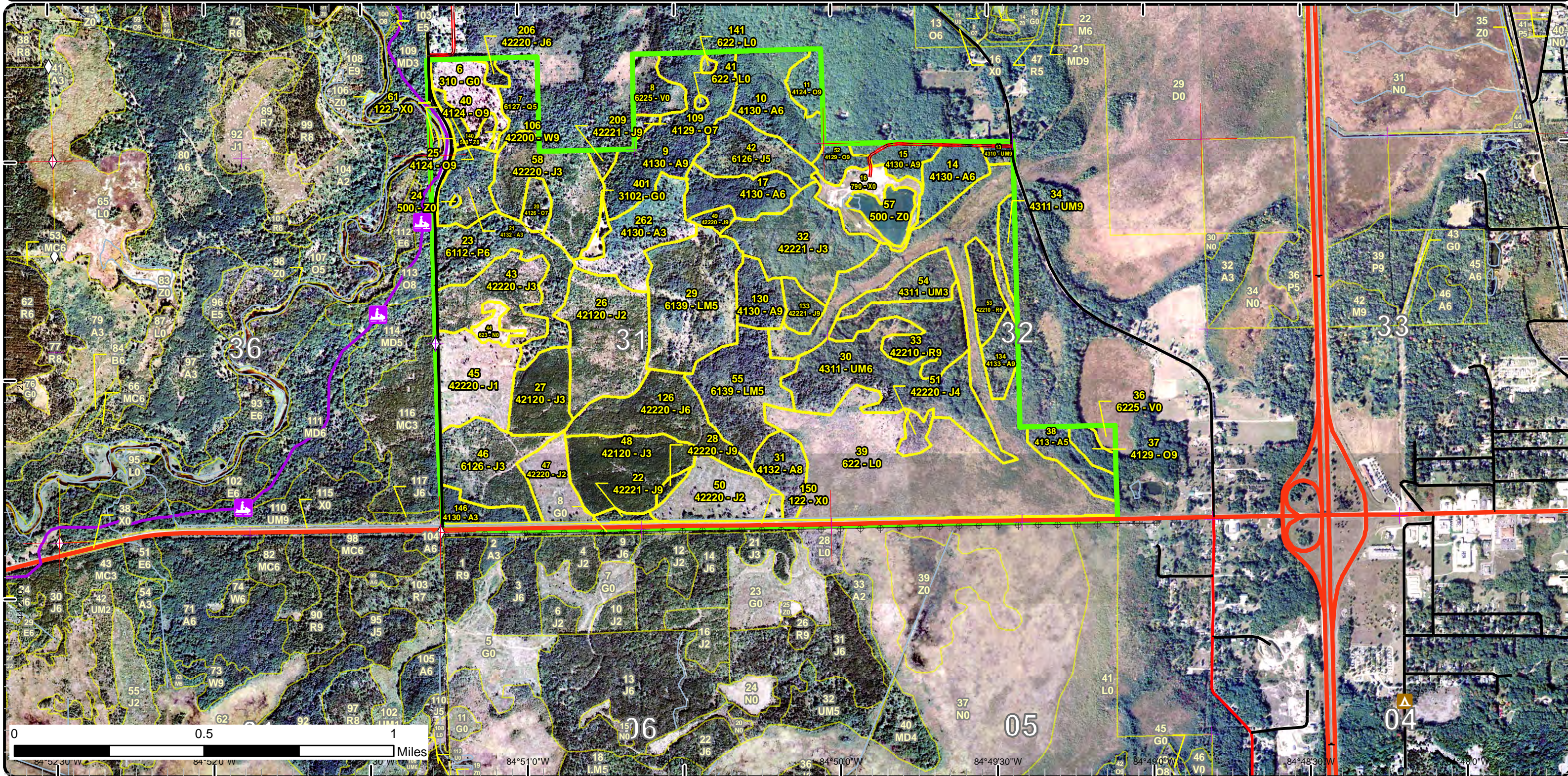


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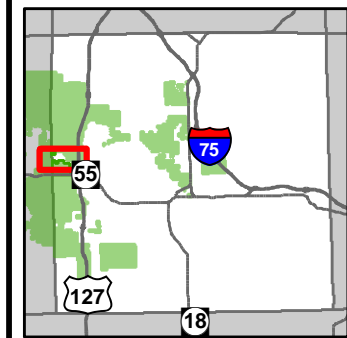


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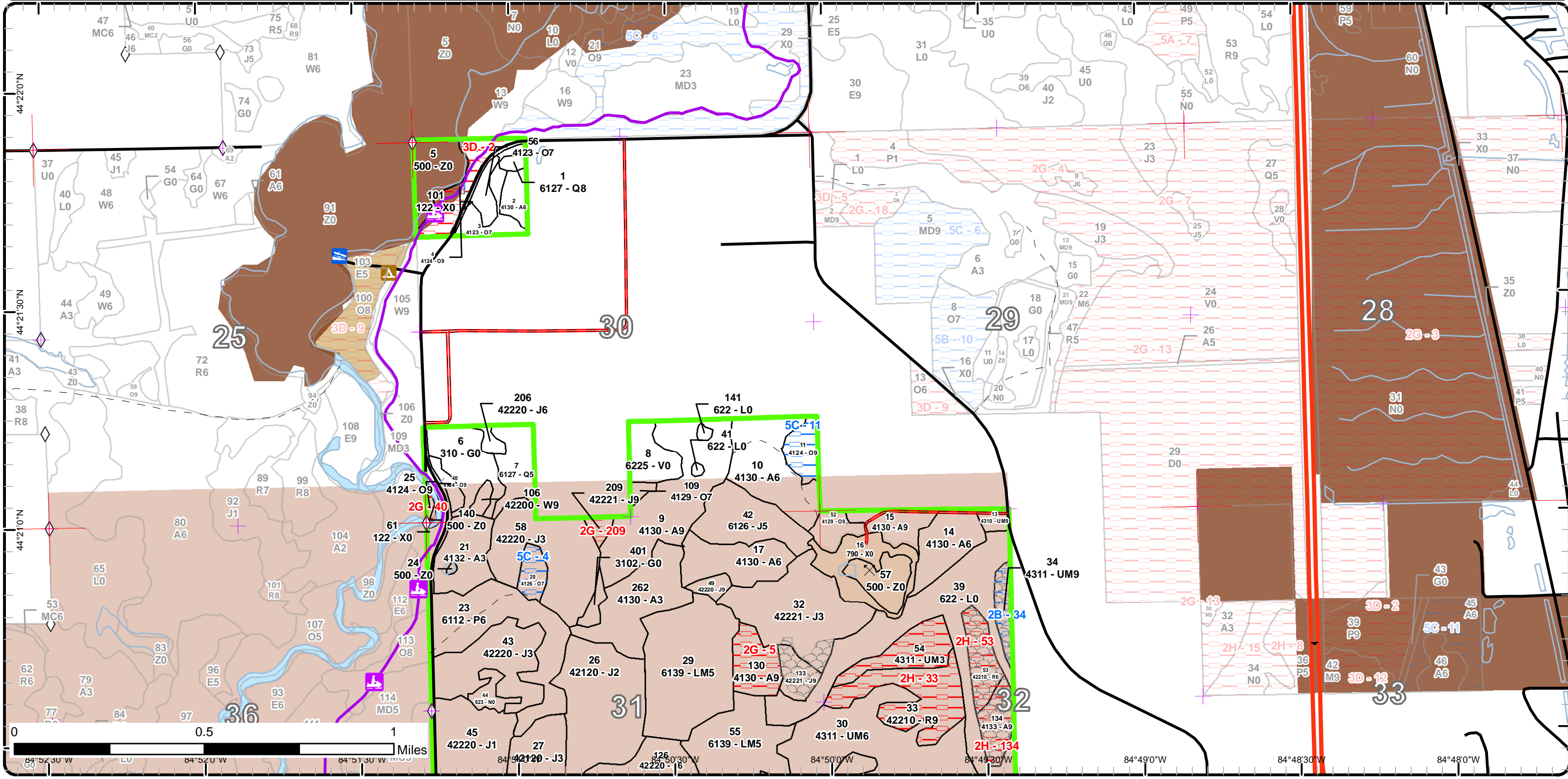


# Special Conservation Areas & Site Conditions Map

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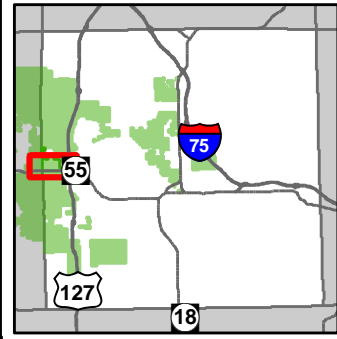


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- Rivers
- ▭ Compartment Boundary
- ▭ Available w/ Constraints
- ▭ Unavailable
- 2B: Unknown if access through adjacent landowner(s) is possible
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- ▭ Stand Boundaries
- ▭ Cold Water Lakes
- ▭ Wildlife Management Areas
- ▭ Wildlife Research Areas
- ▭ State Forest Campground
- ▭ Sand or Gravel Pit
- ▭ Sand or Gravel Pit

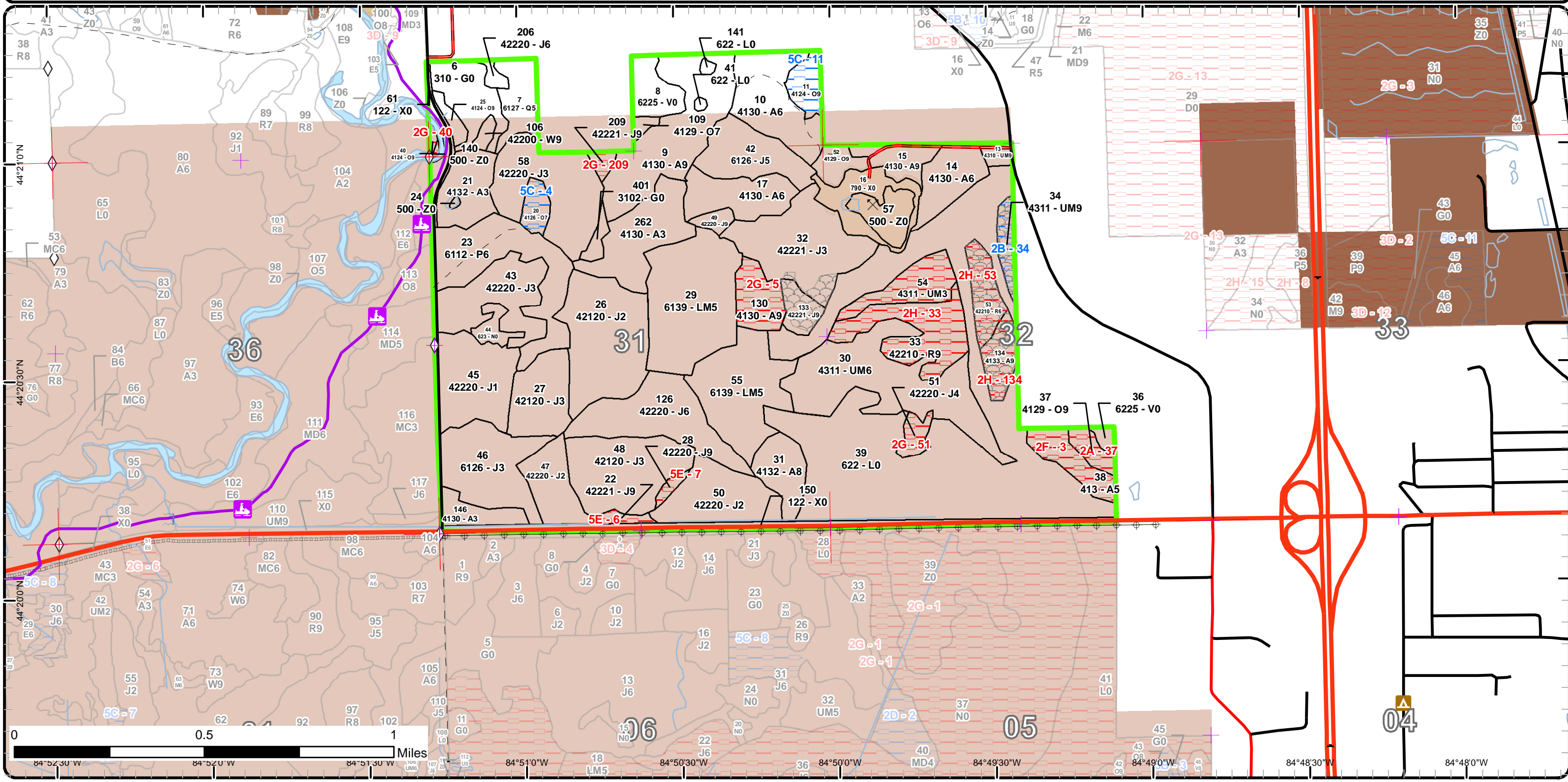


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- 2B: Unknown if access through adjacent landowner(s) is possible
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Lakes
- Wildlife Management Areas
- Wildlife Research Areas
- Sand or Gravel Pit
- Sand or Gravel Pit





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

Roscommon Mgt. Unit

Compartment 78

Year of Entry 2018

Charles VanKalker : Examiner



## 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	27	25	62	12	85	0	0	10	0	0	0	0	0	0	0	0	0	221
Bare/Sparsely Vegetated	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Jack Pine	0	71	234	0	34	31	3	2	5	5	0	0	0	0	0	0	0	0	384
Lowland Aspen/Balsam Poplar	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Lowland Conifers	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	2	14
Lowland Mixed Forest	0	0	0	49	0	37	0	0	0	0	0	0	0	0	0	0	0	0	86
Lowland Shrub	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Oak	0	0	0	0	0	0	0	0	0	8	6	0	0	0	0	0	23	19	55
Red Pine	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	37
Upland Mixed Forest	0	0	0	15	0	55	0	0	6	0	0	0	0	0	0	0	0	3	78
Urban	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
White Pine	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>285</b>	<b>98</b>	<b>259</b>	<b>163</b>	<b>46</b>	<b>220</b>	<b>3</b>	<b>39</b>	<b>23</b>	<b>13</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>24</b>	<b>1199</b>



## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2018

Acres of Harvest

Compartment 78  
Total Compartment Acres: 1,199

Commercial Harvest - 53  
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	53	0	0	0	0	0	0	0	0	53
<b>Total</b>	<b>53</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>53</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	53	0	0	0	0	0	0	3		56
Next Step	0	0	0	0	0	53	0	3		56
<b>Total</b>	<b>53</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>53</b>	<b>0</b>	<b>6</b>		<b>111</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
9	71078009-Cut	43.0	4130 - Aspen	Sawtimber Well	43	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

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

Prescription Clearcut with retention. Leave 3-5% retention in pockets and/or islands of timber representative of existing stand condition.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of aspen and hardwoods to a fully stocked stand.

Regen:

Other Leave 2 drumming logs per 1 acre.

Comment:

Proposed Start Date: 10/01/2017

15	71078015-Cut	9.7	4130 - Aspen	Sawtimber Well	43	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Leave 3-5% retention in pockets or islands representative of pre stand conditions. Also leave 2 drumming logs per 1 acre.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of aspen or hardwoods to a fully stocked stand.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

401	71078401-NF	3.0	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Draft Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Dead Stream Field 8.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment  
Acreage Proposed: 55.7**

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
Charles VanKalker : Examiner

Compartment: 78  
Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions									
		With Condition			2B	5C	2A	2F	2G	2H	3D	5E		
220	186	0		34	Aspen				12	12	10			
15	15	0		0	Bare/Sparsely Vegetated									
13	13	0		0	Bog									
20	20	0		0	Herbaceous Openland									
384	373	0		11	Jack Pine					7				4
37	37	0		0	Lowland Aspen/Balsam Poplar									
14	14	0		0	Lowland Conifers									
86	86	0		0	Lowland Mixed Forest									
177	177	0		0	Lowland Shrub									
5	5	0		0	Marsh									
56	24	13		19	Oak		13	5		1			12	
37	0	0		37	Red Pine							37		
78	58	6		14	Upland Mixed Forest	6						14		
28	28	0		0	Urban					0				
26	26	0		0	Water									
2	2	0		0	White Pine									
1,198	1,063	20		115	Total Forested Acres	6	13	5	12	21	61	12		4
	89%	2%		10%	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
2	Unavailable	3D: Recreational / Scenic values	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	2F: Too steep	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
Charles VanKalker : Examiner

Compartment: 78  
Year of Entry: 2018

4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
Charles VanKalker : Examiner

Compartment: 78  
Year of Entry: 2018

34	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	<b>Unavailable</b>	<b>2A: Adjacent landowner denied access</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
40	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
51	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
53	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
134	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

# Report 4 – Site Conditions

Roscommon Mgt. Unit  
Charles VanKalker : Examiner

Compartment: 78  
Year of Entry: 2018

209	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**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
	Potential Old Growth		<b>SCA Removal</b>	6
<b>Comments</b>				
This area no longer meets the criteria to be classified as a Special Conservation Area.				
	Potential Old Growth		<b>SCA Removal</b>	9
<b>Comments</b>				
This area no longer meets the criteria to be classified as a Special Conservation Area.				
	Potential Old Growth		<b>SCA Removal</b>	20
<b>Comments</b>				
This area no longer meets the criteria to be classified as a Special Conservation Area.				





**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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.

Stand	Roscommon Mgt. Unit		Report 7 – Forested Stands			Compartment: 78	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2018	
1	6127 - Lowland Pine	Sawtimber Medium	1.7	51	51-80		
2	4130 - Aspen	Poletimber Well	5.5	40			
3	4123 - Red Oak	Sawtimber Poor	8.6	180	51-80		This is a lower quality and wetter site than stand 56. This stand borders the harvest done in stand 56 in 2014.
4	4124 - Red with White Oak	Sawtimber Well	12.1	180	81-110		Mixed age stand. Oak poletimber is about 60-70 yr old. Supercanopy is 1920 origin. Snowmobile trail passes through. Popular recreation area for lakeside access to Deadstream Flooding.
7	6127 - Lowland Pine	Poletimber Medium	12.4	43	51-80		Quaking aspen to the north mixed with bushy white pine and jack pine. South end more dry with a larger red maple component.
9	4130 - Aspen	Sawtimber Well	43.0	43	111-140		Mature aspen stand with more pine species mixed in to the north.
10	4130 - Aspen	Poletimber Well	27.3	27	Unspecified		Large red oak towards south of stand.
11	4124 - Red with White Oak	Sawtimber Well	7.7	88	51-80		Thinned in 1999. Healthy oak regen.
13	4310 - Pine, Oak Mix	Sawtimber Well	3.0	131	111-140		Treated in 2014. Red pine (18") cored at 127 years.
14	4130 - Aspen	Poletimber Well	15.7	27	Unspecified		Wet conditions towards south end.
15	4130 - Aspen	Sawtimber Well	9.7	43	Unspecified		Stand thins out towards the west end with more red maple present.
17	4130 - Aspen	Poletimber Well	19.0	27	Unspecified		
20	4126 - White, Black, N. Pin Oak	Sawtimber Poor	5.6	151	1-50		Scattered mast trees left from 2000 harvest.
21	4132 - Aspen, Jack Pine	Sapling Well	16.4	17	51-80		Stand is mixed with pockets of dense jack pine. Southern half of stand is wet and boggy. Large red and white oak mast trees scattered throughout.
22	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Well	2.6	71	81-110		Visual buffer strip left from previous harvest.
23	6112 - Lowland Aspen	Poletimber Well	37.2	27	Unspecified		Young aspen stand with pockets of jack pine. Mature oak is scattered though out the north end. South end is mainly young jack pine mixed with aspen and red maple.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4124 - Red with White Oak	Sawtimber Well	3.1	151	111-140	Retention island left after adjacent harvest. Mature oak with white pine in the understory.
26	42120 - Planted Jack Pine	Sapling Medium	43.0	17	Immature	Artificially regenerated with seeder in 1999. More open stand due to wet conditions.
27	42120 - Planted Jack Pine	Sapling Well	20.2	17	Immature	Artificially seeded in 1999. Dense regeneration.
28	42220 - Natural Jack Pine	Sawtimber Well	1.9	71	81-110	Buffer strip left from jack pine harvest to the east.
29	6139 - Mixed Lowland Forest	Poletimber Medium	49.1	26	Immature	Stand is mostly bog with scattered jack pine and quaking aspen. The drier islands have pure aspen.
30	4311 - Pine, Aspen Mix	Poletimber Well	54.6	49	51-80	Large complex of low quality quaking aspen and jack pine. More mature aspen to the east.
31	4132 - Aspen, Jack Pine	Sawtimber Medium	13.6	41	Unspecified	Pure quaking aspen to the north, mixed with jack pine to the south.
32	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	39.5	14	Immature	Mix of aspen and not much jack pine. Tops were not left in this stand. Heavy rutting. Very wet. South side of the stand did not regenerate well. Harvested in 2003.
33	42210 - Natural Red Pine	Sawtimber Well	26.1	66	141-170	Natural fire origin red pine stand. Thinned in 2002. Road was frozen in across L-type to the north. No good equipment access. Stand has frequent openings throughout where quaking aspen is regenerating well.
34	4311 - Pine, Aspen Mix	Sawtimber Well	6.3	73	81-110	Predominately quaking aspen in the north end and mixed with more pine species in the south. Small triangle of pure log sized red pine in the southern tip.
37	4129 - Mixed Oak	Sawtimber Well	5.3	92	81-110	OPIIC - FMD: OI Stand Year Origin was 1925
38	413 - Aspen	Poletimber Medium	11.7	39	Unspecified	Low quality Quaking Aspen transitions to upland toward O8. Stand is transitioning to poles.
40	4124 - Red with White Oak	Sawtimber Well	1.1	97	51-80	Stand Year Origin was 1920
42	6126 - Lowland Jack Pine	Poletimber Medium	21.8	41	1-50	Wet stand with pure jack pine in center where there is higher ground. No access to center of stand.
43	42220 - Natural Jack Pine	Sapling Well	28.0	17	Unspecified	
45	42220 - Natural Jack Pine	Sapling Poor	30.2	7	Immature	Jack pine naturally regenerated with red pine super canopy at 1-2/trees per acre.

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## Roscommon Mgt. Unit

## Report 7 – Forested Stands

Compartment: 78  
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	6126 - Lowland Jack Pine	Sapling Well	31.8	16	Immature	Wet jack pine site with higher stocking in the driest areas.
47	42220 - Natural Jack Pine	Sapling Medium	15.8	7	Immature	Naturally regenerated jack pine stand with scattered red maple and jack pine in the over story.
48	42120 - Planted Jack Pine	Sapling Well	35.0	17	Immature	Artificially seed in 1999.
49	42220 - Natural Jack Pine	Sawtimber Well	3.1	51	111-140	Small stand of mature jack pine. Possibly old retention area.
50	42220 - Natural Jack Pine	Sapling Medium	25.3	9	Immature	Immature jack pine stand with a few scattered mature jack pine left.
51	42220 - Natural Jack Pine	Poletimber Poor	4.7	82	1-50	Mature stand with 50% dieback due to old age or rising water table.
52	4129 - Mixed Oak	Sawtimber Well	6.4	151	51-80	Large wolf tree white oak scattered throughout stand. Large berms in place to prevent access to the road commission pit.
53	42210 - Natural Red Pine	Poletimber Well	10.7	67	171-200	Natural fire origin red pine stand. Fire scarred monarchs present in many spots. Pure red pine except wet portion to the south that is intermixed with quaking aspen.
54	4311 - Pine, Aspen Mix	Sapling Well	14.5	28	1-50	Evenly mixed jack pine and quaking aspen site with red pine super canopy. Thinned in 2002. Road was frozen in across L- type to the north. No good equipment access.
55	6139 - Mixed Lowland Forest	Poletimber Medium	37.3	49	1-50	Large complex of low quality quaking aspen and jack pine. North end has more bog and lower BA. South end more dry with larger trees and higher BA.
56	4123 - Red Oak	Sawtimber Poor	4.5	180	1-50	Seed tree cut in 2014.
58	42220 - Natural Jack Pine	Sapling Well	36.2	16	Immature	Stand is well stocked with jack pine to south. The north half is more boggy and sparse to jack pine.
106	42200 - Natural White Pine	Sawtimber Well	2.1	77	81-110	Pocket of mature pine/oak left after harvest.
109	4129 - Mixed Oak	Sawtimber Poor	1.7	151	1-50	Harvested last year of entry. Oak stumps are spouting with scattered white pine filling in.
126	42220 - Natural Jack Pine	Poletimber Well	33.8	31	Unspecified	Stand more sparse and open grown than surrounding jack pine stands. Small pockets of quaking aspen in the north end.

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## Roscommon Mgt. Unit

## Report 7 – Forested Stands

Compartment: 78  
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>130</b>	4130 - Aspen	Sawtimber Well	12.5	49	111-140	OPIC - FMD: North part of stand 30 that has better aspen, but is still very wet. Pushing it to call it an A6. Be careful on regenerating this stand. The south edge of stand 32 did not come in well at all. We may want to consider adding it to the SCA due to access considerations.
<b>133</b>	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Well	6.9	43	81-110	
<b>134</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	9.5	79	81-110	
<b>146</b>	4130 - Aspen	Sapling Well	8.4	16	Immature	East side of stand is mixed aspen and transitions into pure aspen to the west.
<b>206</b>	42220 - Natural Jack Pine	Poletimber Well	2.2	43	81-110	
<b>209</b>	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Well	2.4	67	51-80	Small triangle of mature jack pine.
<b>262</b>	4130 - Aspen	Sapling Well	27.4	5	Immature	Final harvest done in 2012. Roughly 5 BA of seed tree red and white oak were left. Dense regen of aspen and red maple.



Stand	Cover Type	Acres	Managed Site	General Comments:
5	500 - Water	13.6	No	REEDSBURG FLOODING
6	310 - Herbaceous Openland	17.0	No	Big tooth aspen harvest in 2014. Around 10 BA of oak was left for seed trees. Lower regeneration in the north where it is more wet. Higher regeneration of white pine to the south where it is drier and closer to retention island of mature white pine.
8	6225 - Bog	10.6	No	
16	790 - Other Bare/Sparsely Vegetate	14.9	No	BORROW PIT.
24	500 - Water	0.4	No	
36	6225 - Bog	2.0	No	
39	622 - Lowland Shrub	175.3	No	
41	622 - Lowland Shrub	0.6	No	
44	623 - Emergent Wetland	4.6	No	
57	500 - Water	10.6	No	
61	122 - Road/Parking Lot	6.6	No	Most of the acres for this stand are road and sno-trail surface. It also contains the bank to the river and some oak that is being managed from Missaukee Co.
101	122 - Road/Parking Lot	2.1	No	OPIC - FMD: Aqua Rd.
140	500 - Water	1.3	No	Muskegon River.
141	622 - Lowland Shrub	0.9	No	
150	122 - Road/Parking Lot	20.4	No	OPIC - FMD: M-55
401	3102 - Grass	3.0	Yes	OPIC - FMD: maintained opening