



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71081

Entry Year 2019

Acreage: 1,094

County Roscommon

Management Area: Houghton Lake Wetlands

Revision Date: 2017-08-02

Stand Examiner: Jason Lewicki

Legal Description:

T23N, R03W Sections 26, 27, 34 and 35

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:

Soils on the uplands consist primarily Croswell sand while the lowlands are dominated by Dawson-Loxley peat and Tawas Lupton muck. The topography is very flat to slightly rolling.

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

This compartment is very fragmented with private property. There are several small subdivisions located along Co. Rd. 100. The county Airport lies just to the north of the compartment.

Unique Natural Features:

There is a potential for Bald Eagle nests within the compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None known.

Watershed and Fisheries Considerations:

Houghton Lake lies just to the west of this compartment.

Wildlife Habitat Considerations:

Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, and turkeys as well as non-game species.

Mineral Resource and Development Concerns and/or Restrictions

There are several sand/gravel pits in the general area but none within four miles of the compartment. Most of the pits in the area are confined to uplands, which are lacking in the compartment. Sand and gravel potential within the compartment may be limited. The nearest hydrocarbon production (past or present) is greater than eight miles away, and there has been sparse exploration in the area. There are no active oil and gas leases in the compartment. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access is poor throughout the compartment due to large areas of lowlands.

Survey Needs:

None known.

Recreational Facilities and Opportunities:

Recreation pressures exist in the compartment from the proximity of private land. Evidence of snowmobile, hunting, hiking and other dispersed recreation are popular in the area. There are no designated recreation trails within the compartment boundary. Continue forest management efforts to address resource damage areas.

Fire Protection:

No high hazards in the compartment.

Additional Compartment Information:

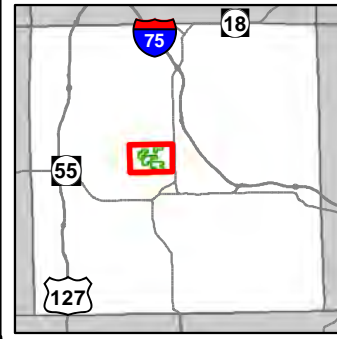
The following reports from the Inventory are attached:

- 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:

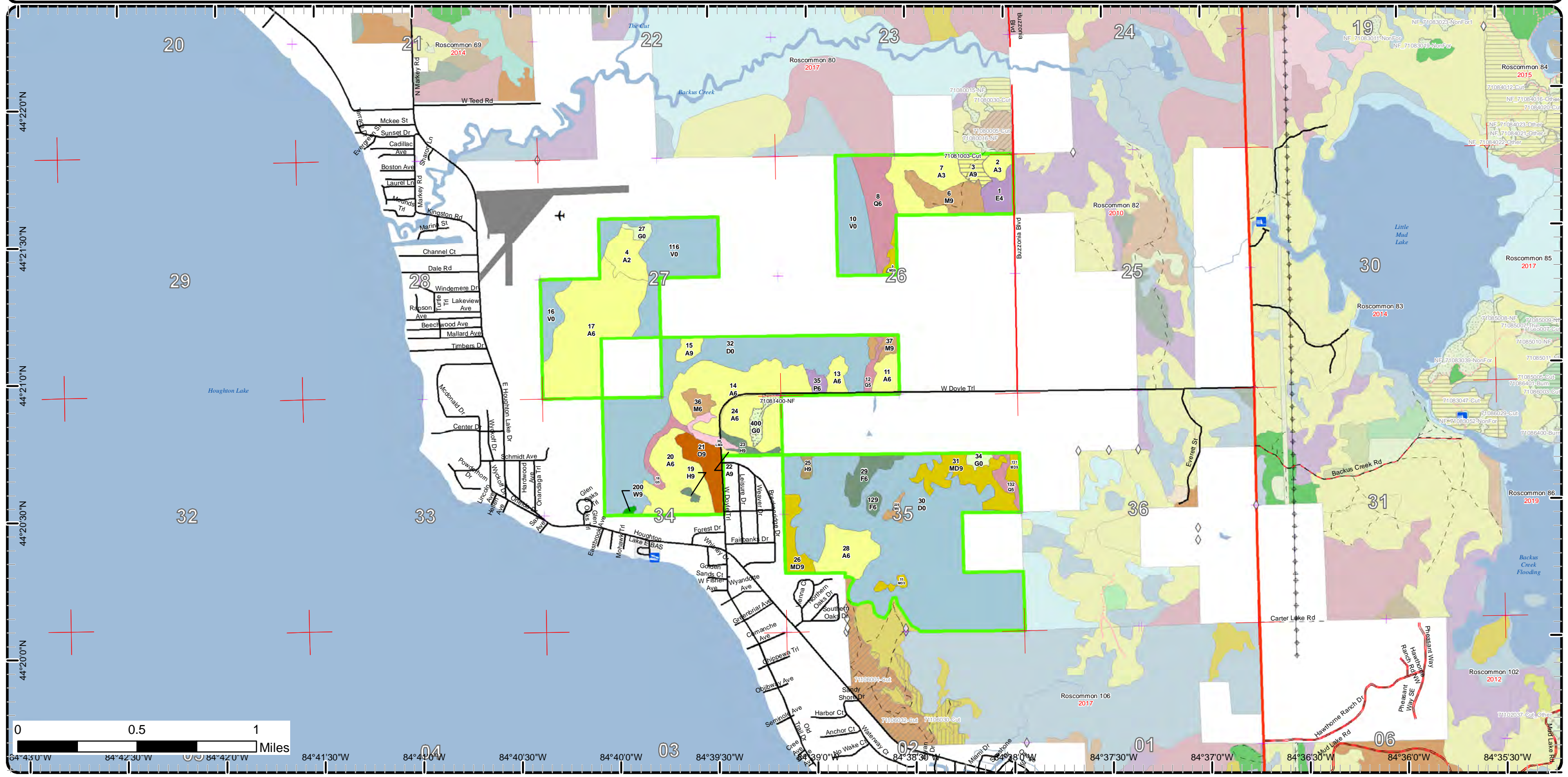
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



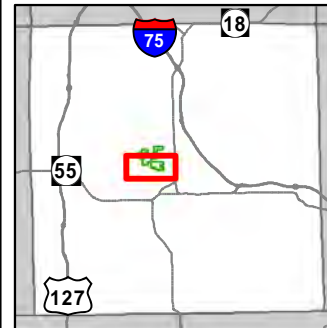
Compartment: 81
 T23N R03W 25-26, 34-35
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2019
 Acres: 1094.3 GIS Calculated
 Examiner: Jason Lewicki
 Map Revised: 8/2/2017
 Map Phase: Review

- Miris Corners
- + Remonumented Section Corners
- Field Grade GPS Corners
- Counties
- ✈ Airport
- 🚤 Boating Access Site
- County Paved Roads
- Paved Roads
- - Poor Dirt Roads
- ⋯ Closed
- Streams
- Lakes and Rivers All
- Airports
- Compartment Boundary
- Clearcut (w/Reserves)
- Mowing
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

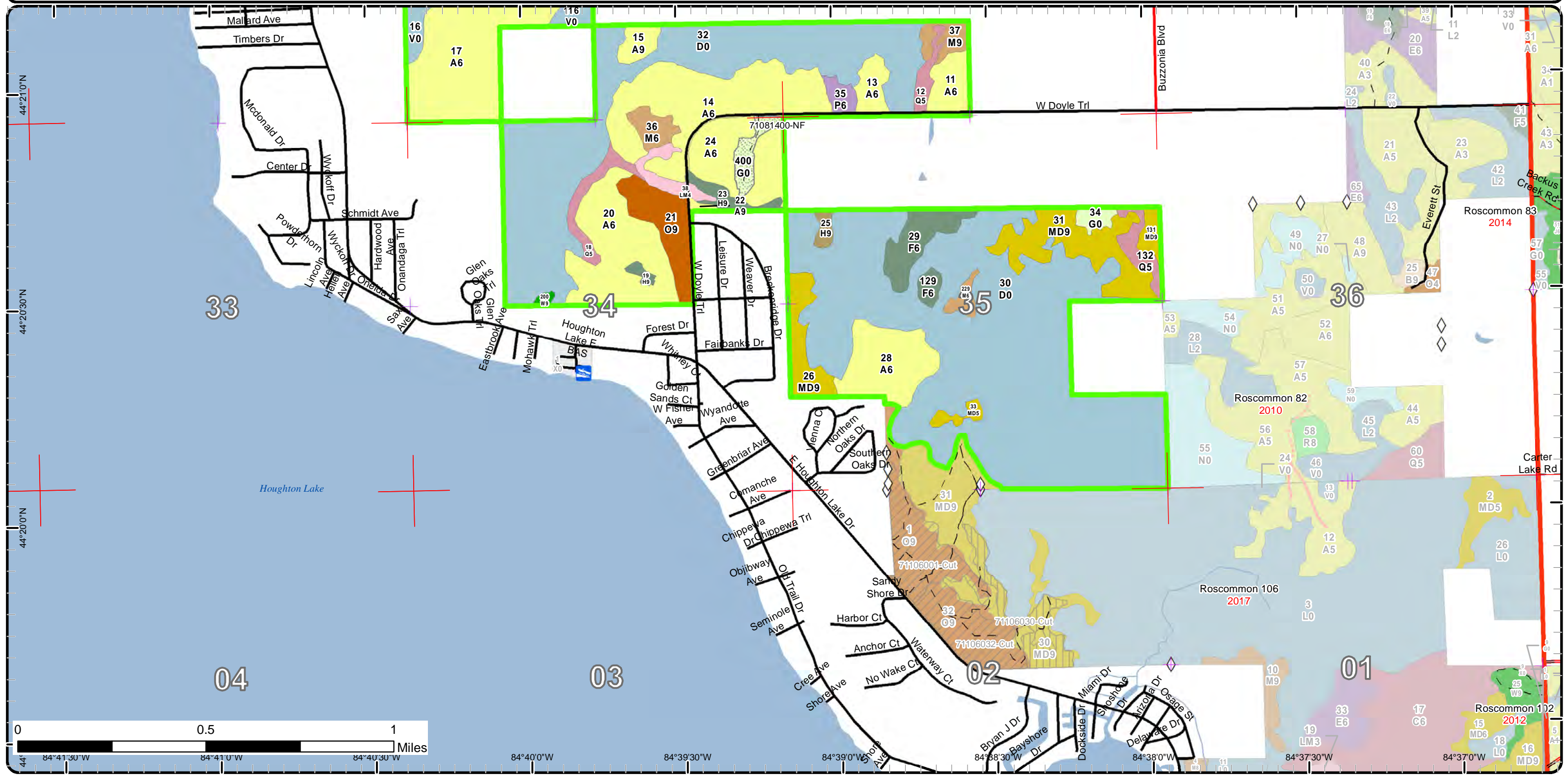


Cover Type & Treatments Map

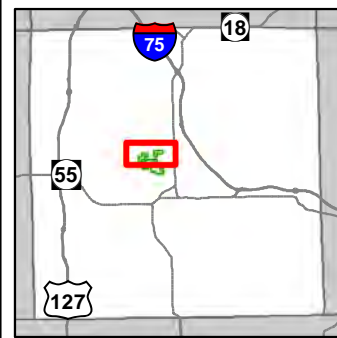
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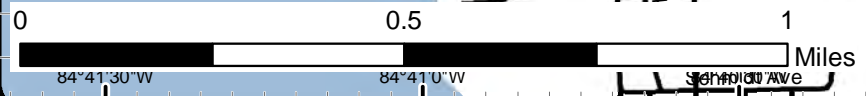
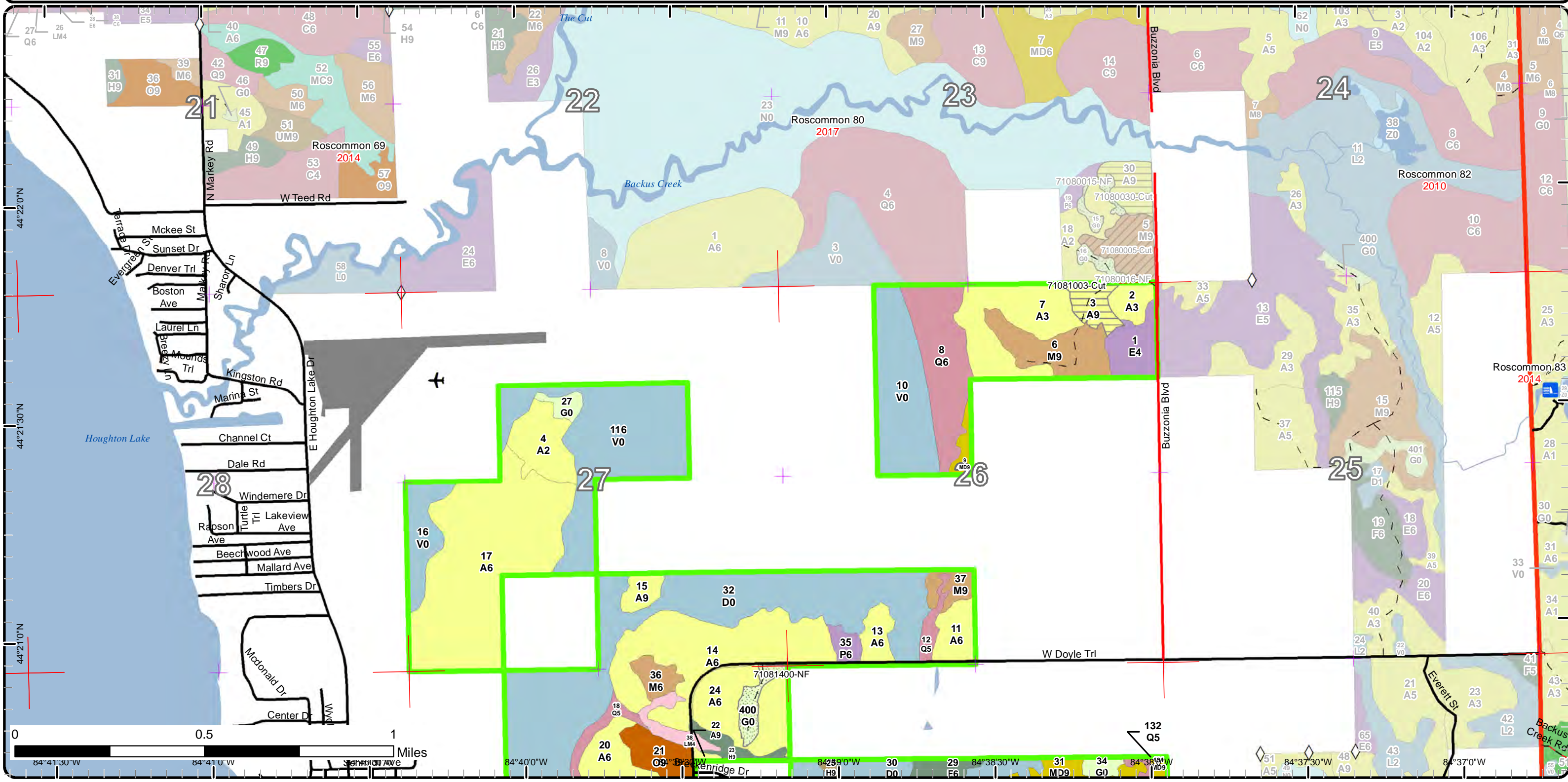


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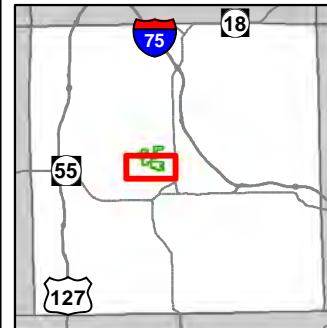
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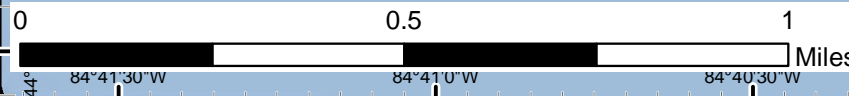
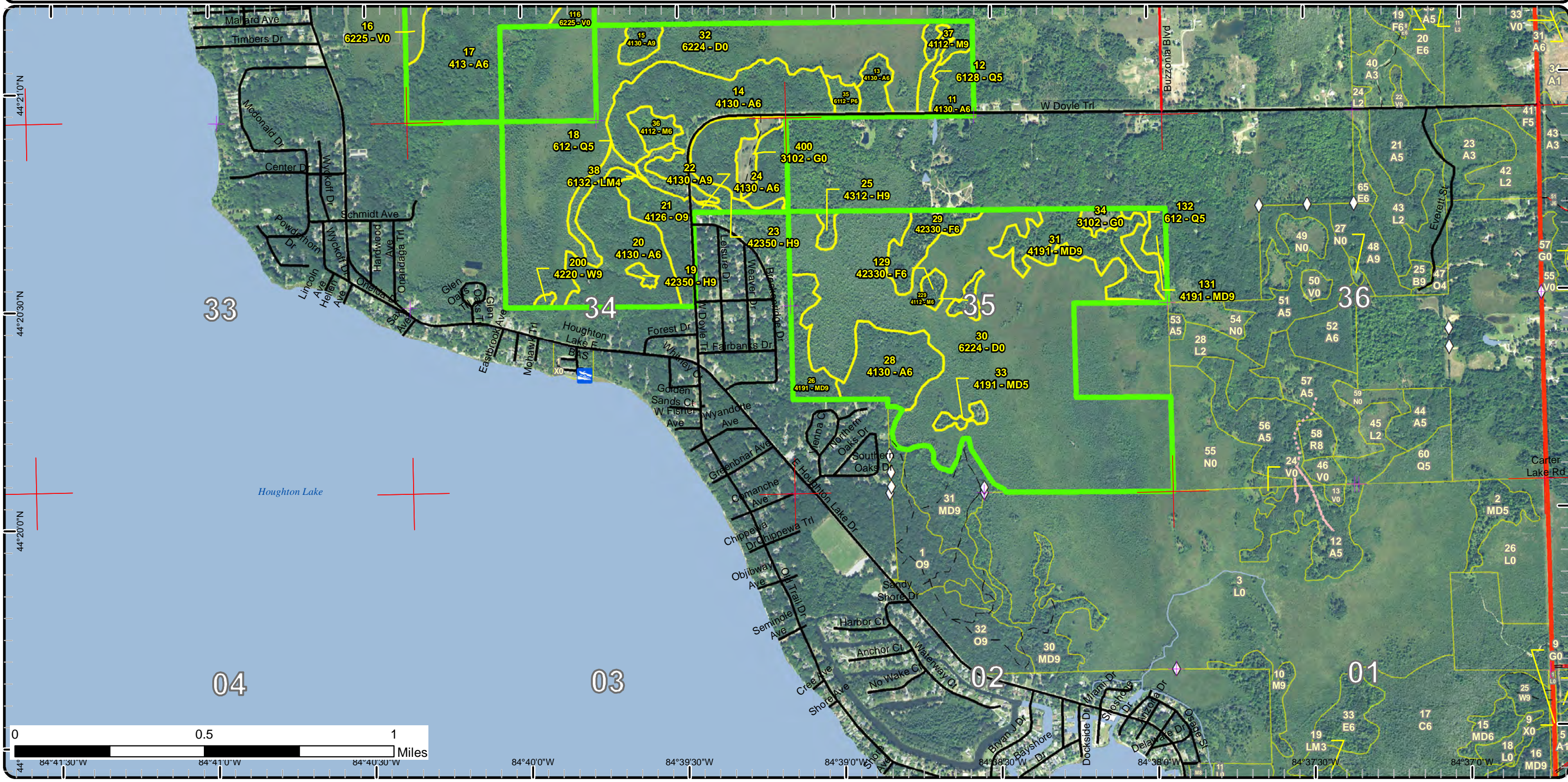
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 44°21'0"N 44°21'30"N 44°22'0"N

Stand Boundary Map

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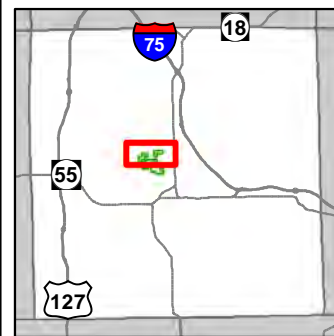


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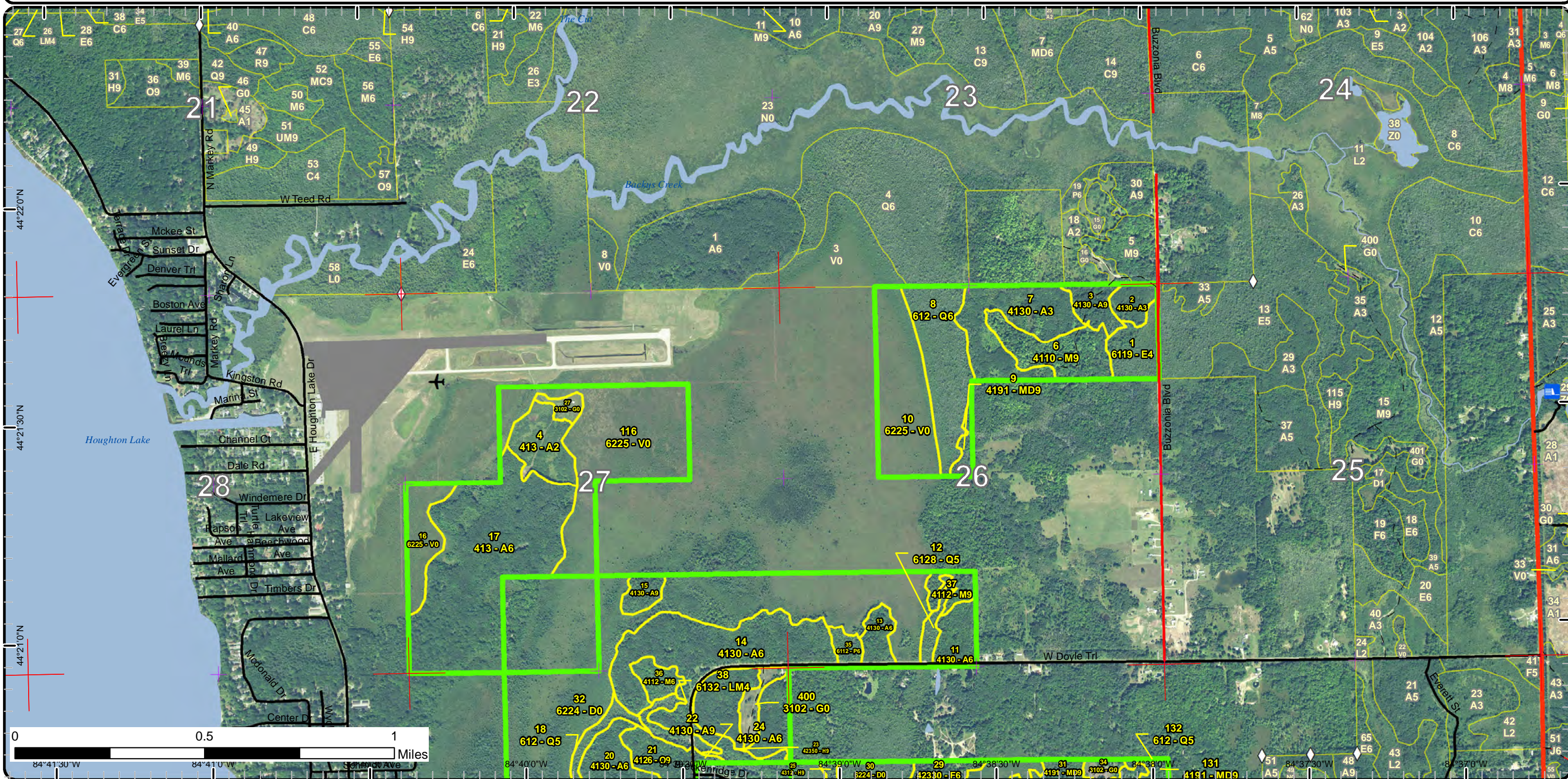


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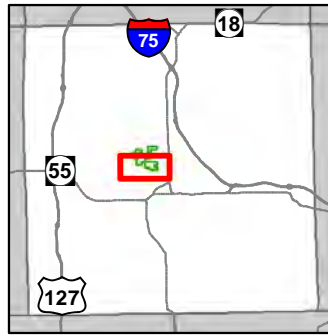


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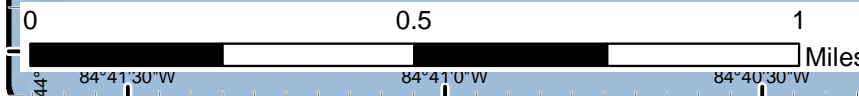
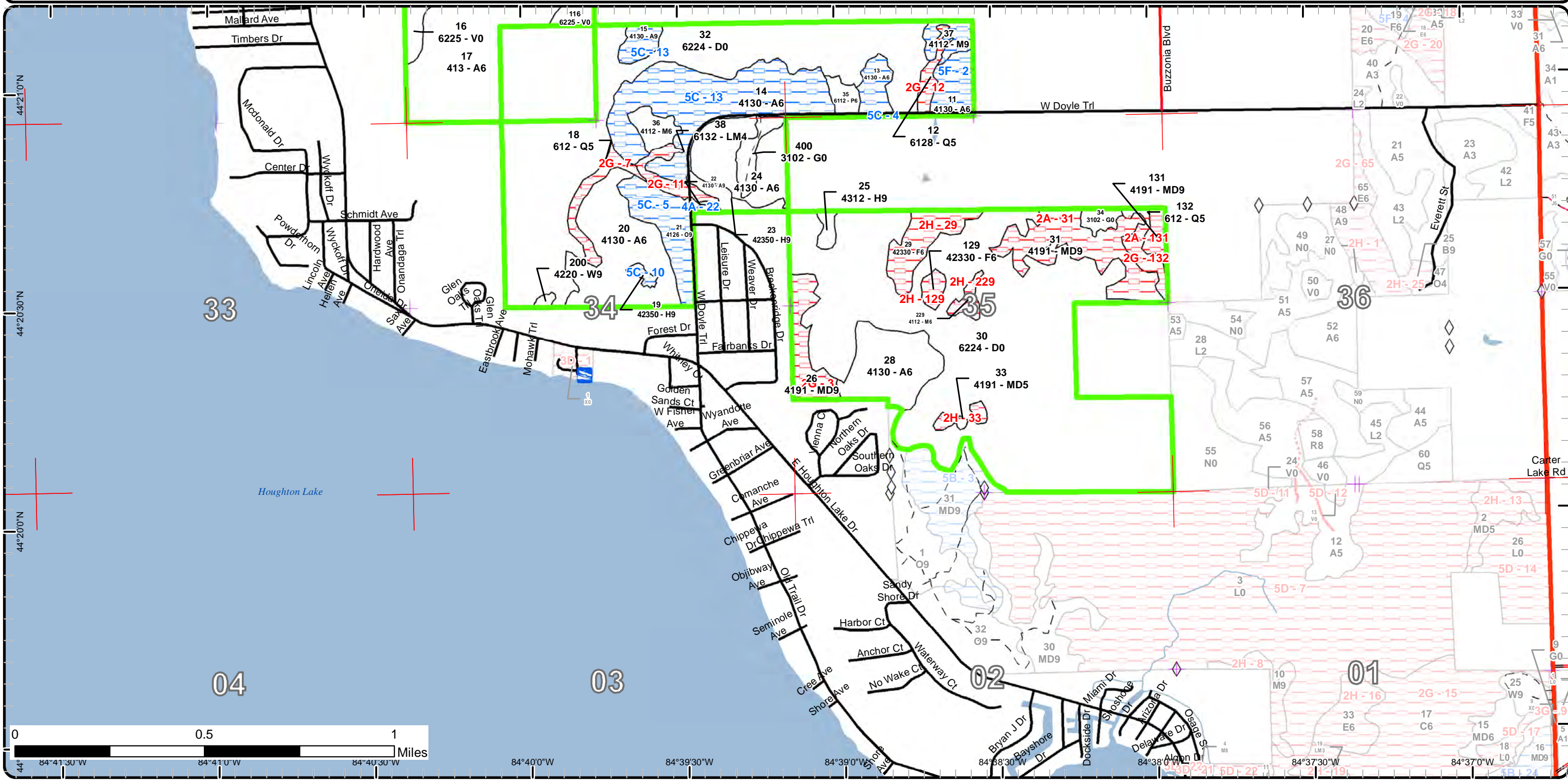


Special Conservation Areas & Site Conditions Map

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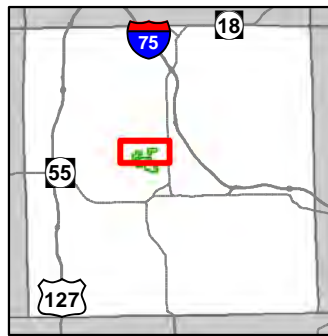
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- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries



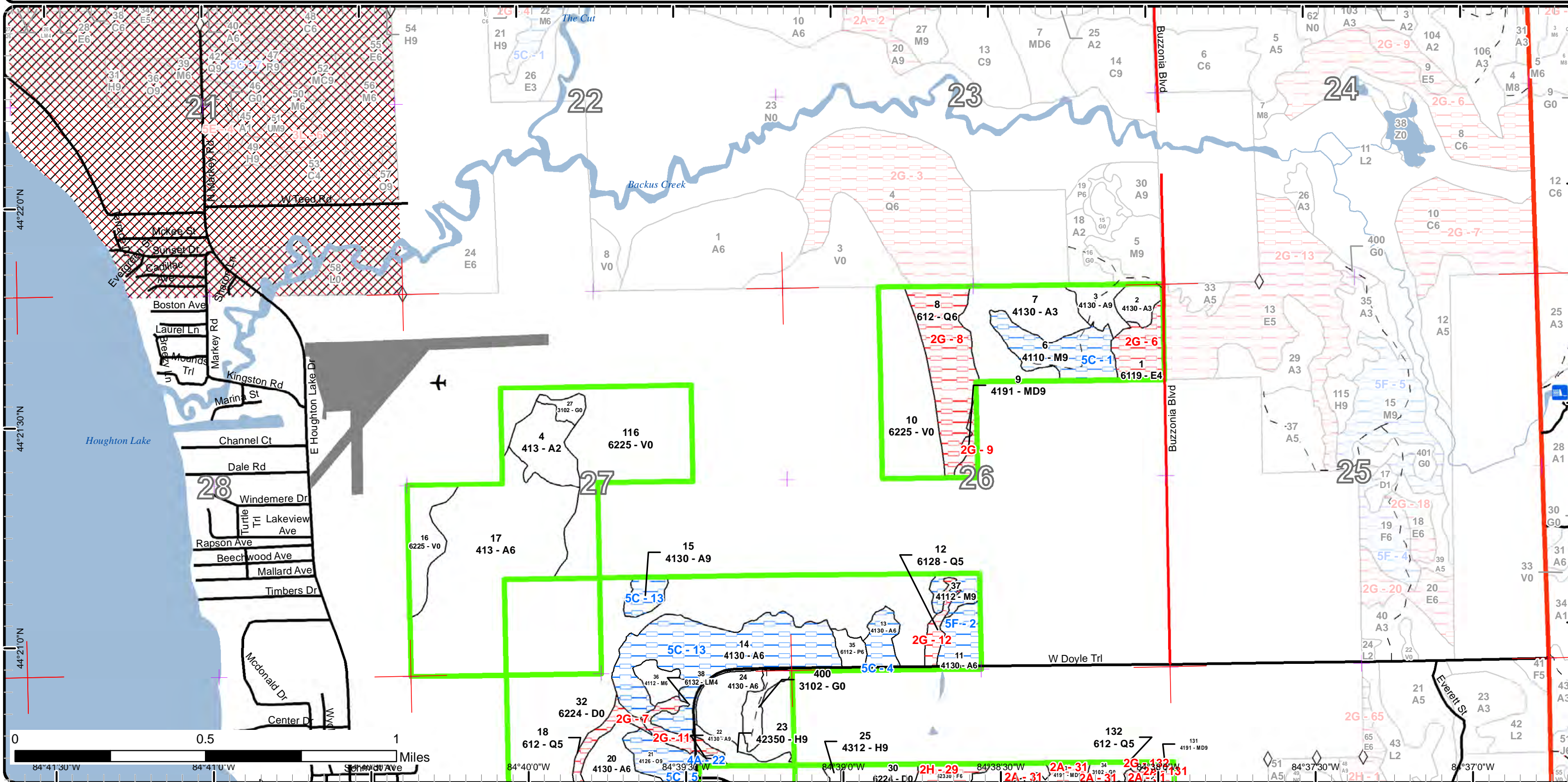
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Report 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment 81 Year of Entry 2019



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	40	17	190	0	84	6	1	0	0	0	0	0	0	0	0	0	338
Bog	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	10
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Lowland Mixed Forest	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	25	0	29	0	0	0	0	0	54
Northern Hardwood	0	0	0	0	0	0	6	0	10	0	0	0	21	0	0	0	0	0	37
Oak	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	19
Treed Bog	405	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	405
Upland Spruce/Fir	0	0	0	0	0	0	0	3	14	0	0	0	0	0	0	0	0	0	17
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total	544	0	40	17	190	0	100	9	25	0	90	0	80	0	0	0	0	0	1095



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 81
Total Compartment Acres: 1,094

Commercial Harvest - 8
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		8	0	0	0	0	0	0	0	0	8
	Total	8	0	0	0	0	0	0	0	0	8

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		8	0	0	0	0	0	0	6		15
Next Step		0	0	0	0	0	8	0	6		15
	Total	8	0	0	0	0	8	0	13		29



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
3	71081003-Cut	8.3	4130 - Aspen	Sawtimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut stand and manage for aspen. Apply retention along the swamp edge. Use brush pile and drumming log spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen at fully stocked levels.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

400	71081400-NF	6.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, East Markey Field 10.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 14.6**

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 81
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		4A	5C	5F	2A	2G	2H	
337	255	83	0	Aspen	1	71	11				
126	126	0	0	Bog							
10	8	2	0	Hemlock		2					
13	13	0	0	Herbaceous Openland							
4	4	0	0	Lowland Aspen/Balsam Poplar							
52	0	0	52	Lowland Conifers					52		
13	0	0	13	Lowland Deciduous					13		
6	0	0	6	Lowland Mixed Forest					6		
54	0	0	54	Mixed Upland Deciduous				33	18	3	
37	6	27	3	Northern Hardwood		21	6				3
19	0	19	0	Oak		19					
405	405	0	0	Treed Bog							
17	0	0	17	Upland Spruce/Fir							17
1	1	0	0	White Pine							
1,094	818	131	145	Total Forested Acres	1	113	17	33	88	24	
	75%	12%	13%	Relative Percent							

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5F: Evaluated for Forest Health Considerations	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Probably will be treated in 2019 for aspen management							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 81
Year of Entry: 2019

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 81
Year of Entry: 2019

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 81
Year of Entry: 2019

13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	4A: No Markets Available for these Forest Products	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2A: Adjacent landowner denied access	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
129	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 81
Year of Entry: 2019

131	Unavailable	2A: Adjacent landowner denied access	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
132	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
229	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	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
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Stand	Roscommon Mgt. Unit		Report 7 – Forested Stands			Compartment: 81	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2019	
1	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	12.6	92	1-50		
2	4130 - Aspen	Sapling Well	6.6	13	Immature		Mostly quaking aspen with a few big tooth aspen. Some ash regeneration present. Some balsam fir, red maple poles left from harvest.
3	4130 - Aspen	Sawtimber Well	8.3	52	81-110		Mix of bigtooth and quaking aspen. Quaking showing signs of decline. Some hard maple mixed in. Clay soils may cause operability issues when the ground is soft
4	413 - Aspen	Sapling Medium	16.8	25	Immature		Area was Illegally cleared by the Roscommon Co. Airport
6	4110 - Sugar Maple Association	Sawtimber Well	21.0	110	81-110		Nice quality northern hardwoods site. Sugar maple, beech, yellow birch and baswood present. All species showing good form. Little to no hard maple seedlings in understory. Little recruitment throughout stand. CUT IN FALL 2002/WINTER 2003. Old sale also indicate it was thinned around the mid 1940's and again in the mid 1960's.= Ash was salvaged in the winter of 13, 14. Beech on the west end shows signs of BBD.
7	4130 - Aspen	Sapling Well	33.0	13	Immature		Mixed aspen stand with some beech regen. A few beech mast/den trees left after harvest. Somm areas regenerated poorly due to high water table. They are now filled with grass and some raspberry. Clay soils.
8	612 - Lowland Coniferous Forest	Poletimber Well	33.1	97	141-170		
9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	4.1	97	1-50		
11	4130 - Aspen	Poletimber Well	10.7	56	81-110		Heavy balsam fir understory. More red maple component to the north. Cedar and hemlock along west swamp edge.
12	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	4.6	97	51-80		
13	4130 - Aspen	Poletimber Well	7.5	56	81-110		Bigtooth aspen pole timber and small log stand with older red pine scattered about. Balsam fir and a few white pine in understory. Aspen is in good shape and can easily hold. Appears younger than 56 years old.
14	4130 - Aspen	Poletimber Well	57.8	56	111-140		A mix of Bigtooth and quaking aspen with soft maple. Quaking is showing signs of decline. A few older red oaks in overstory possibly left from last cut.
15	4130 - Aspen	Sawtimber Well	5.7	65	81-110		Older quaking aspen stand in decline. Balsam understory. A few wet pockets within the stand.
17	413 - Aspen	Poletimber Well	95.2	37	1-50		



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Roscommon Mgt. Unit

Report 7 – Forested Stands

Compartment: 81
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	612 - Lowland Coniferous Forest	Poletimber Medium	7.4	97	51-80	
19	42350 - Upland Hemlock	Sawtimber Well	1.6	110	111-140	Small pocket of hemlock.
20	4130 - Aspen	Poletimber Well	42.1	37	81-110	Some pockets of white pine present.
21	4126 - White, Black, N. Pin Oak	Sawtimber Well	19.1	110	81-110	Some large, old red and white oaks scattered about with younger 40-50 year old oak, red maple and bigtooth aspen sub canopy. White pine and balsam fir understory. Heavier, older oak component on south end. Some mature aspen on north west side. Large, healthy white oaks. Hold for visuals along subdivision.
22	4130 - Aspen	Sawtimber Well	1.2	75	81-110	Small acreage along private property.
23	42350 - Upland Hemlock	Sawtimber Well	5.5	110	81-110	Mixed stand of hemlock and cedar. Some red maple and a few old rotten aspen. A couple large white pine. Balsam fir understory. Tag alder present in lower wetter ground areas.
24	4130 - Aspen	Poletimber Well	25.4	39	51-80	Mixed stand of aspen pole timber. A few red maple and white pine scattered about. Balsam fir and a few white pine in understory.
25	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	2.7	110	111-140	
26	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.0	97	111-140	There is a small pocket of hemlock within stand.
28	4130 - Aspen	Poletimber Well	27.1	39	51-80	
29	42330 - Upland Fir	Poletimber Well	14.3	75	81-110	Balsam fir , maple and birch. Has illegal org trails and a small 1/4-1/2 acre food plot on north end.
31	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	29.2	110	81-110	
33	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	2.9	92	51-80	
35	6112 - Lowland Aspen	Poletimber Well	4.3	56	51-80	
36	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.1	56	81-110	
37	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.3	75	81-110	Some wet areas within stand especially to the north.

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Roscommon Mgt. Unit

Report 7 – Forested Stands

Compartment: 81
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	6.2	56	81-110	Dead ash swale with maple, cedar and tag alder.
129	42330 - Upland Fir	Poletimber Well	3.1	65	81-110	Balsam fir and birch stand. Birch is in heavy decline
131	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	4.3	92	51-80	
132	612 - Lowland Coniferous Forest	Poletimber Medium	6.6	97	51-80	
200	4220 - Natural White Pine	Sawtimber Well	1.0	110	81-110	
229	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.2	75	81-110	island



Stand	Cover Type	Acres	Managed Site	General Comments:
10	6225 - Bog	40.8	No	
16	6225 - Bog	15.5	No	
27	3102 - Grass	3.5	No	
30	6224 - Treed Bog	266.4	No	
32	6224 - Treed Bog	138.6	No	
34	3102 - Grass	3.5	No	
116	6225 - Bog	69.3	No	
400	3102 - Grass	6.3	Yes	