



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71038

Entry Year 2021

Acreage: 6,537

County Roscommon

Management Area: Ogemaw Hills

Revision Date: 2019-06-12

Stand Examiner: Jason Lewicki

Legal Description:

T24N, R02W Sections 27 and 34.

T23N, R02W Sections 2, 3, 10, 11, 13, 14, 15, 22, 23, 24 and 26.

Identified Planning Goals:

Vegetation management in the AuSable Outwash management area (MA) (Figure 4.25.1) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including several state wildlife area floodings, the Roscommon Forest Fire Experiment Station, threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on improving the age-class structure of aspen, harvesting older jack pine and regeneration of red pine and oak to help balance age-classes. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity and management of the state wildlife management areas. Expected trends within this 10-year planning period are an increase in non-native exotic plants, especially Phragmites in the wetland areas and increased recreational pressure.

Soil and topography:

Topography is generally flat with some areas of rolling hills.

Soils in the uplands consist of Greycalm-Grayling, Greycalm-Klacking and Croswell sands.

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

Much of the compartment and surrounding area is under State ownership. Lake St. Helen lies just to the east of the compartment boundaries where much of the surrounding land is privately owned.

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

Compartment contains a large portion of the 9 Mile Complex Ecological Reference Area

Watershed and Fisheries Considerations:

Lake St. Helen, Russell Lake and the South Branch of the AuSable River lie just to the East of the compartment.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Sections 2-4, 10-11, 13-15, 22-24, & 26, T23N-R2W and sections 27 & 34, T24N-R2W, Roscommon County
Two active sand & gravel pits are in the area including the St. Helen/Carter Pit, which is in the compartment and currently leased by Payne & Dolan. Nine Mile Pit to the west is also leased to Payne & Dolan. There is good potential for additional sand & gravel within the compartment on the upland areas. The St. Helen oil and gas field is located about one mile northeast of the compartment. The St. Helen field, like most other Detroit River (Richfield) fields in this area, is structurally controlled. The field is undergoing secondary recovery operations currently and is unlikely to expand. All the state-owned mineral rights within the compartment and much of the surrounding area are currently under lease. These leases were originally acquired by Marathon in a 2014 auction as they pursued unconventional development of the Lucas Formation (Richfield zone). Marathon has since abandoned their plans. Marathon's remaining leases were recently acquired by CORE Energy. It is not known whether CORE intends to develop the leases in this area or let them expire next year. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral

rights. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access is very good on the uplands with multiple dirt county roads and forest access routes. There is an area within sections 23 and 24 that is closed to vehicular traffic and is blocked with a gate.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

The designated Geels 50" ATV Trails are present within most of the compartment. Dispersed recreation is popular throughout the compartment from the access to water resources and varying cover types offering hunting and gathering opportunities.

Fire Protection:

Fire occurrence history is low in this compartment with small amounts of high hazard fuel types. There is low land in this compartment that could cause accessibility issues for fire suppression but most of the high ground is accessible. There are some private holdings within the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

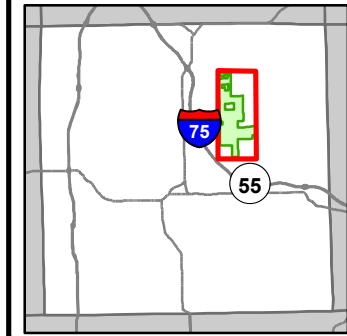
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

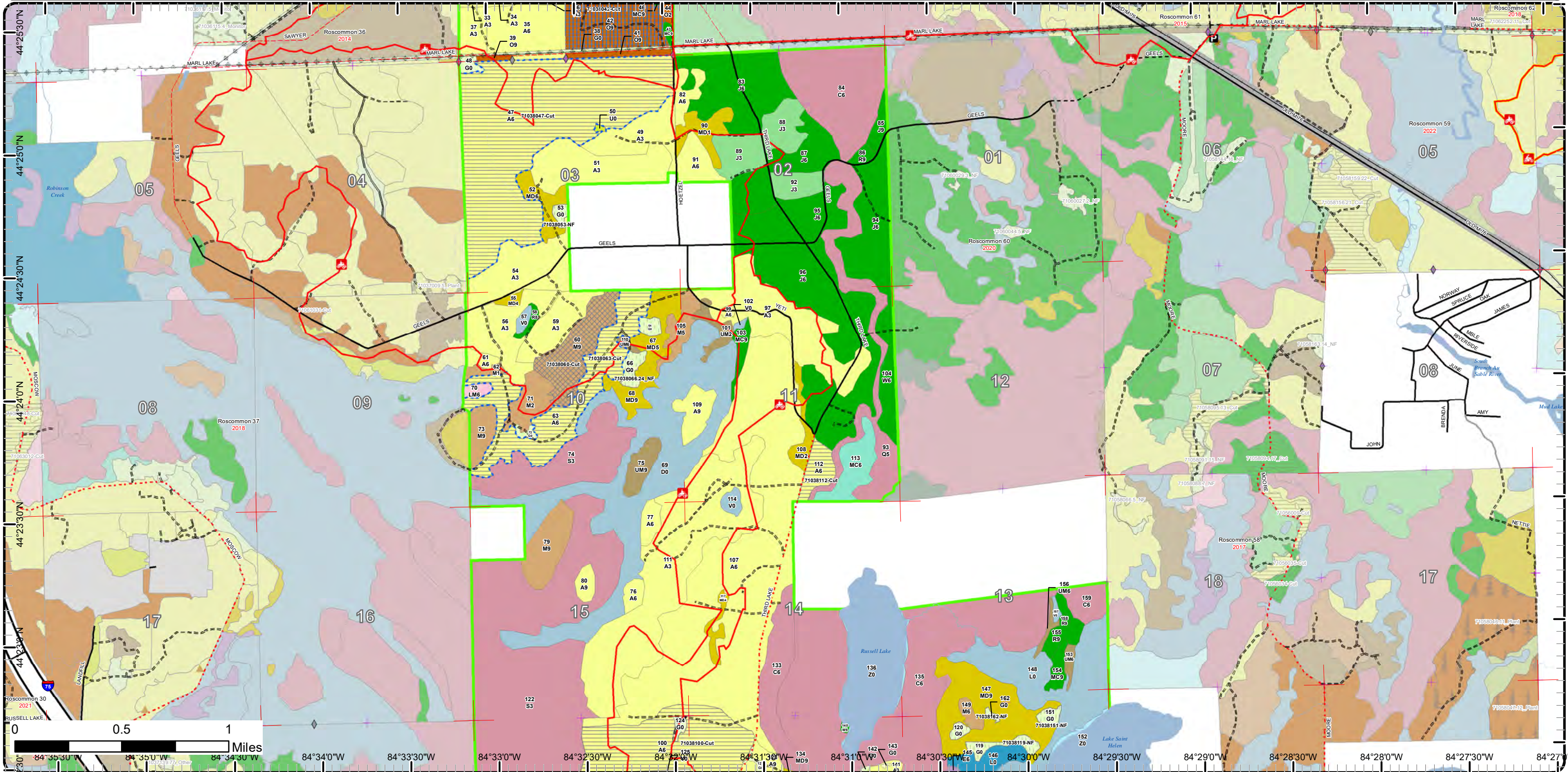
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 38
 T24N, R02W, Sec. 27, 34
 T23N, R02W, Sec. 2, 3, 10-11,
 13-15, 22-24, 26
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Ogemaw Hills
 YOE: 2021
 Acres: 6,538 GIS Calculated
 Examiner: Jason Lewicki
 Map Revised: 11/21/2019
 Map Phase: Post-Review

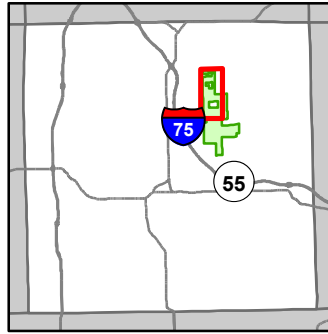


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Active Railroads
- ORV Trails
- Snowmobile Trails
- Designated ATV
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Coniferous Forest
- 612 - Lowland Mixed Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 710 - Sand/Soil

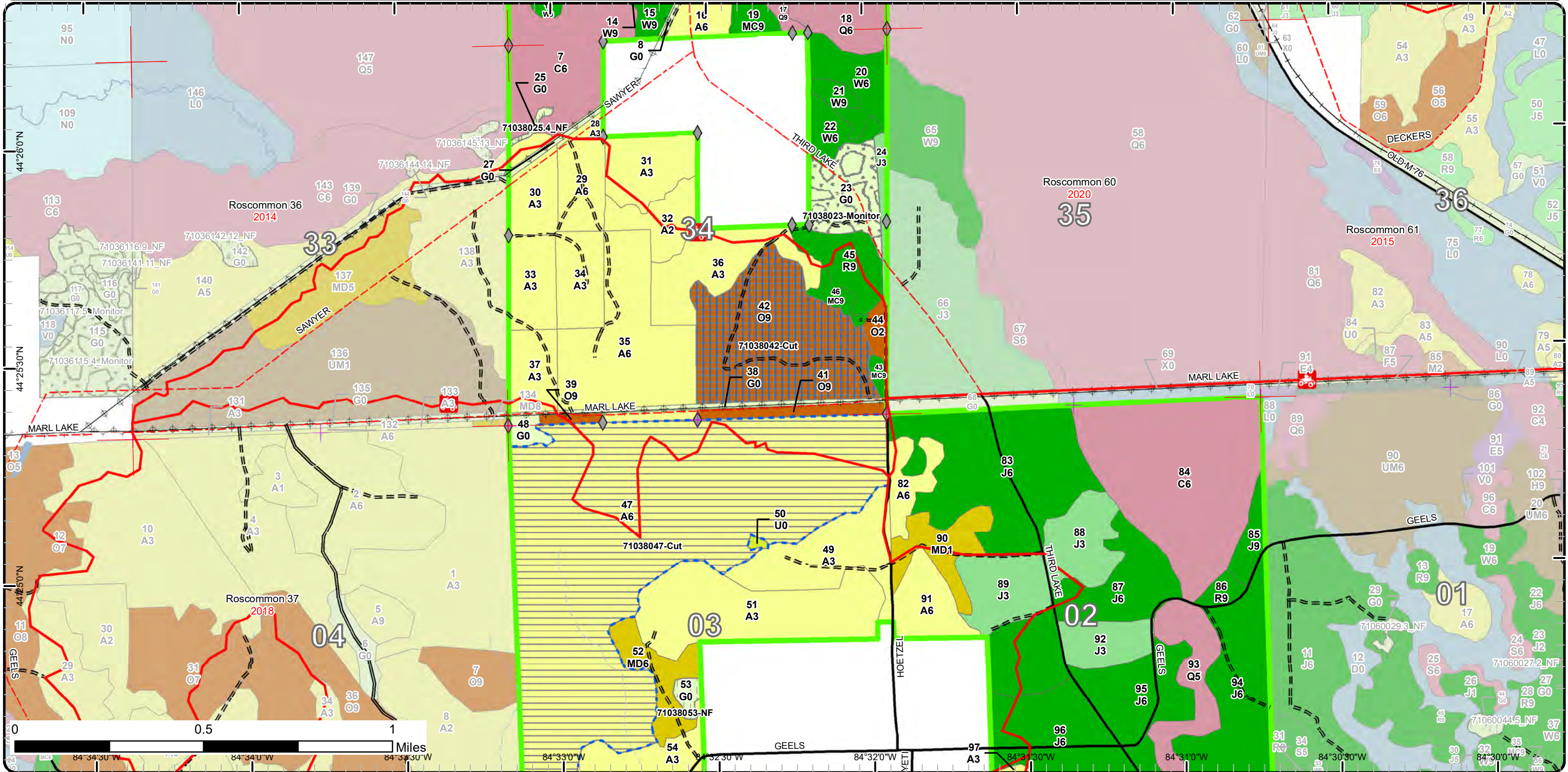


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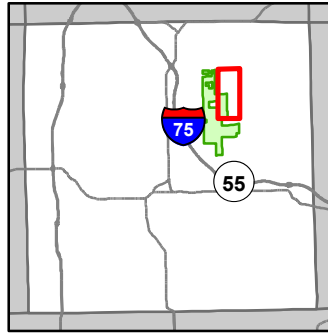


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- Powerline
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- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- Opening Maintenance
- 412 - Oak Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- Other Treatment - See Comments

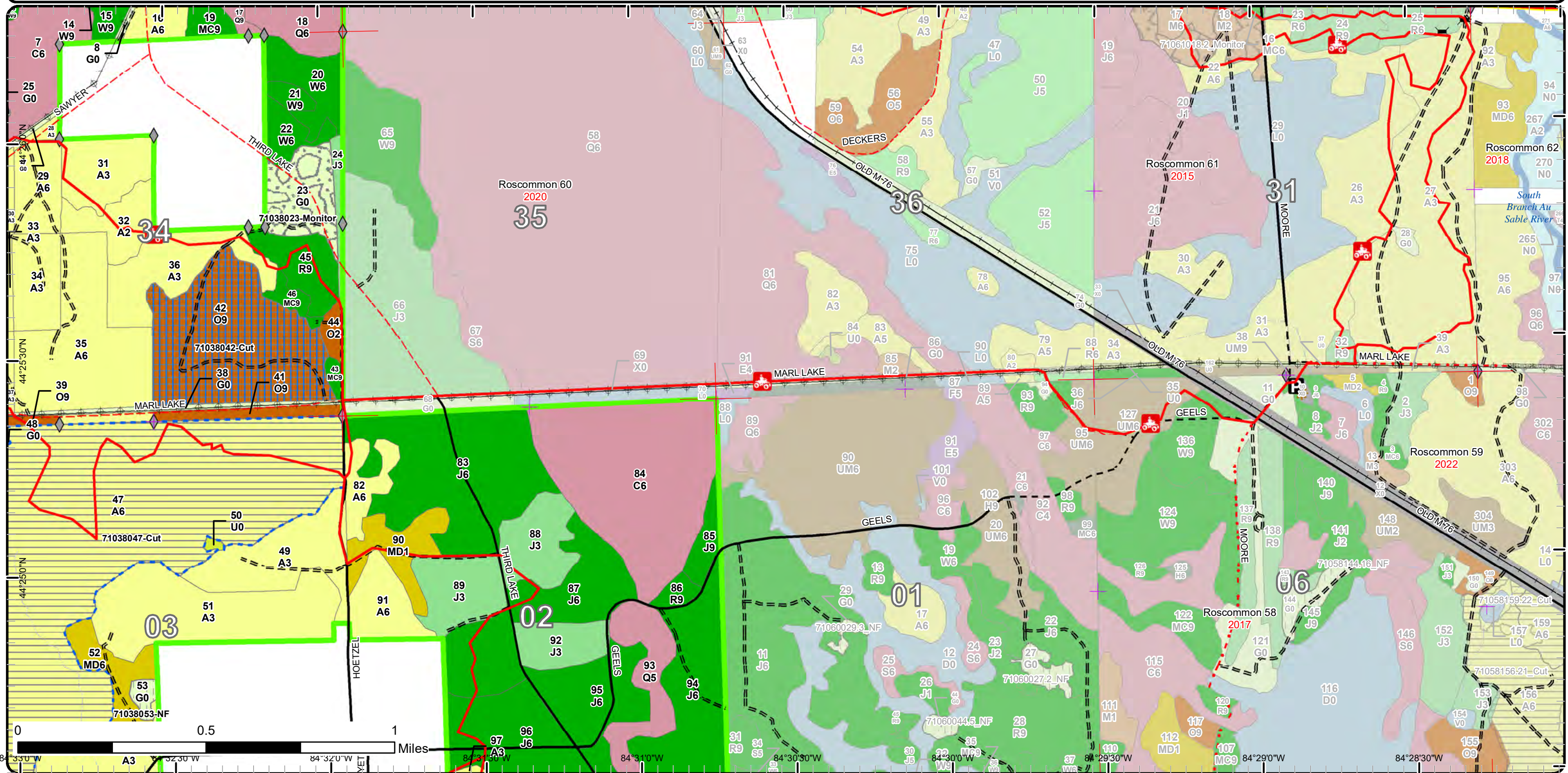


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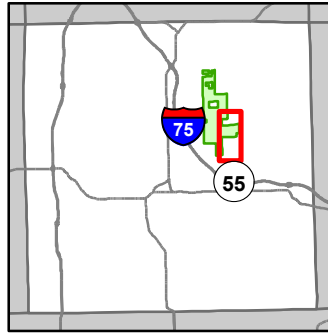


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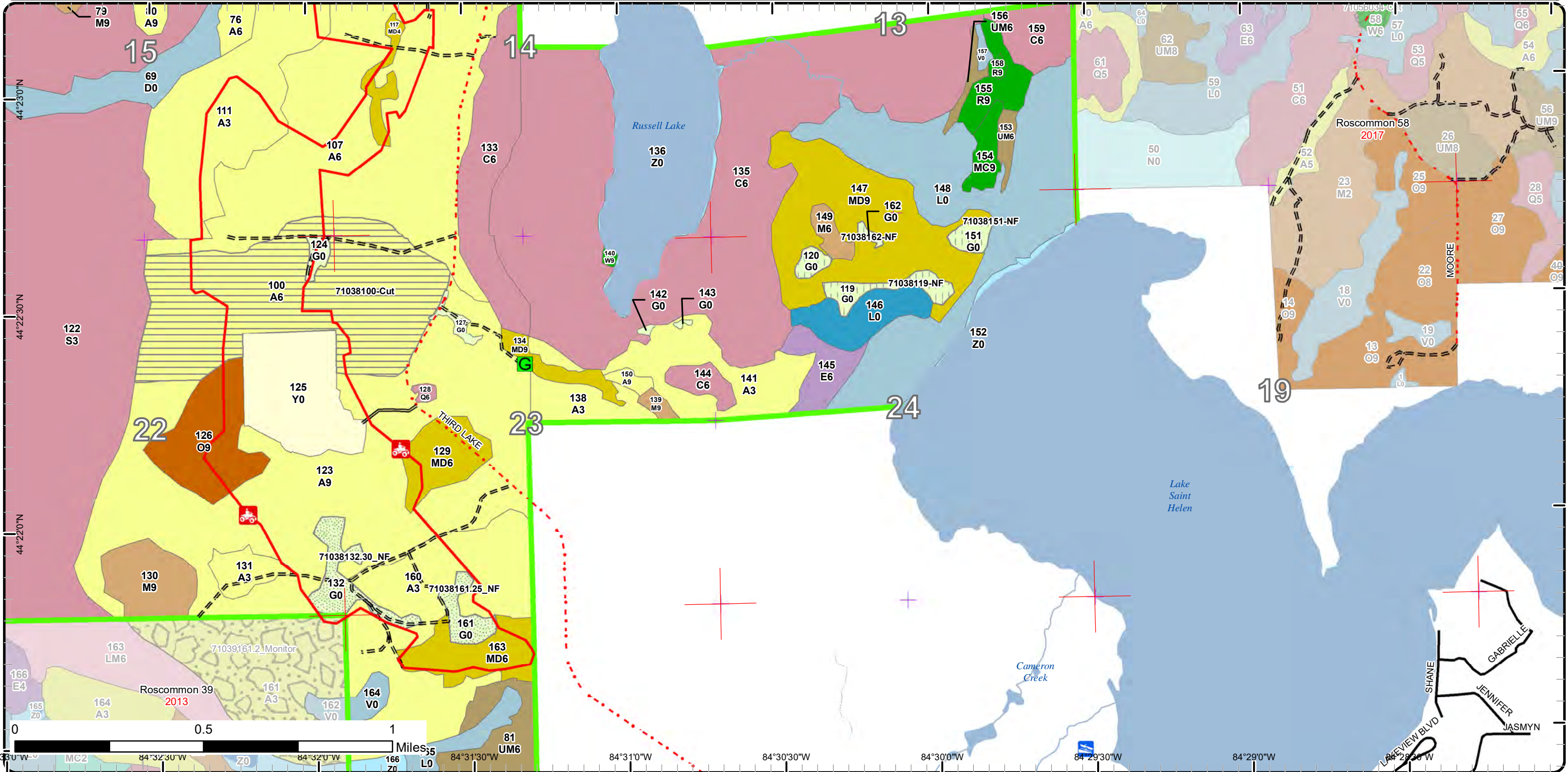


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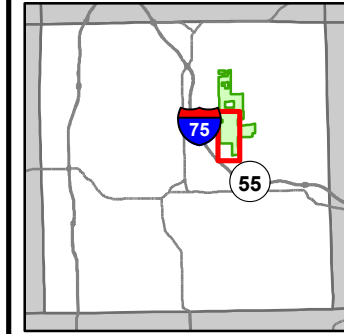


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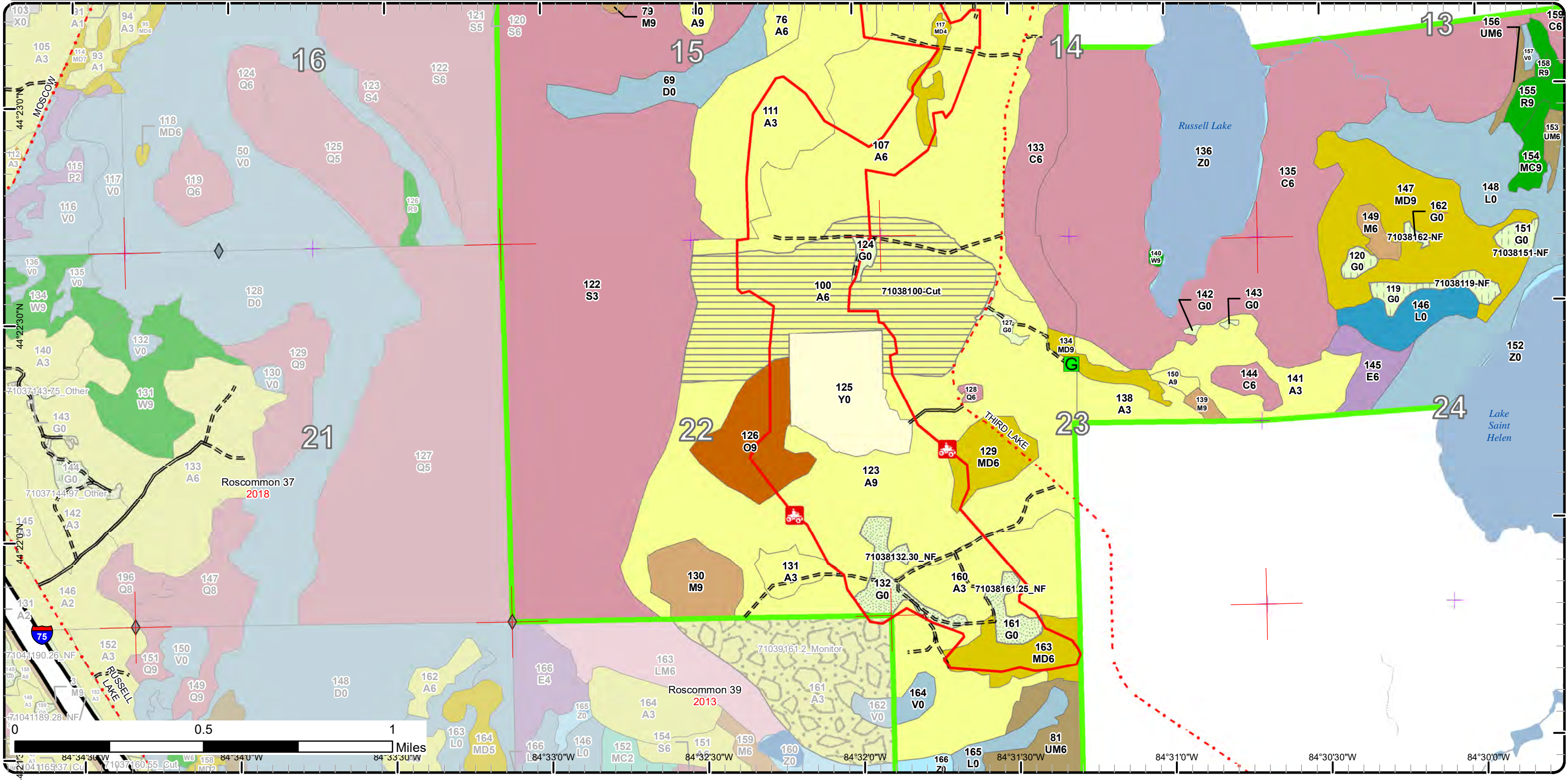


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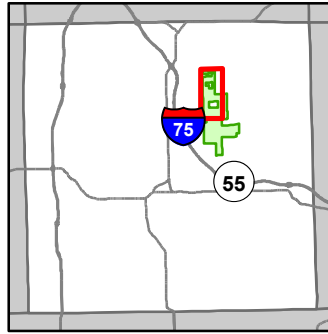


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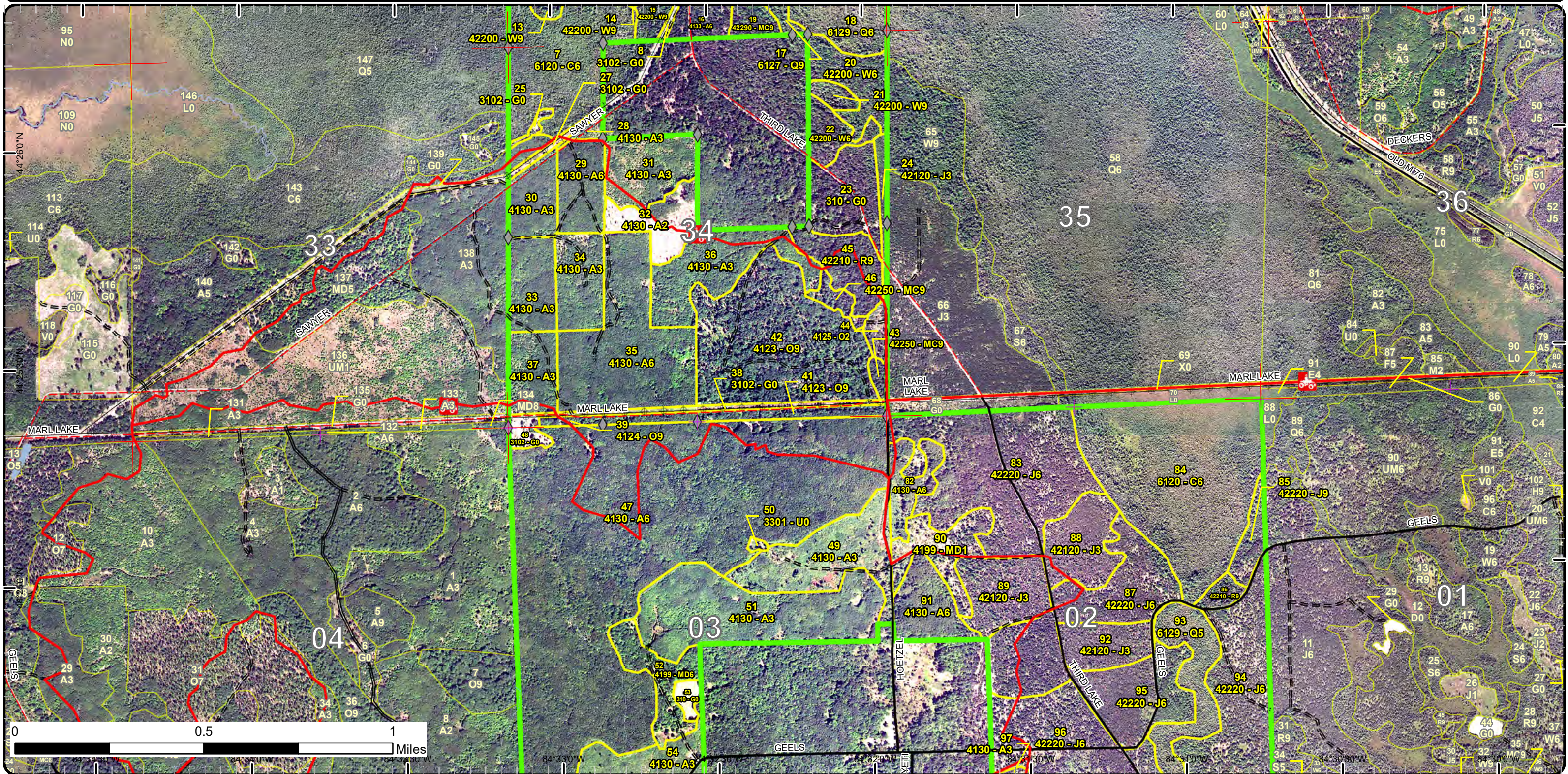


Stand Boundary Map

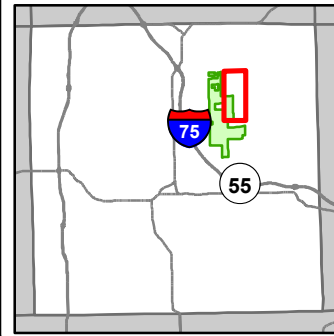
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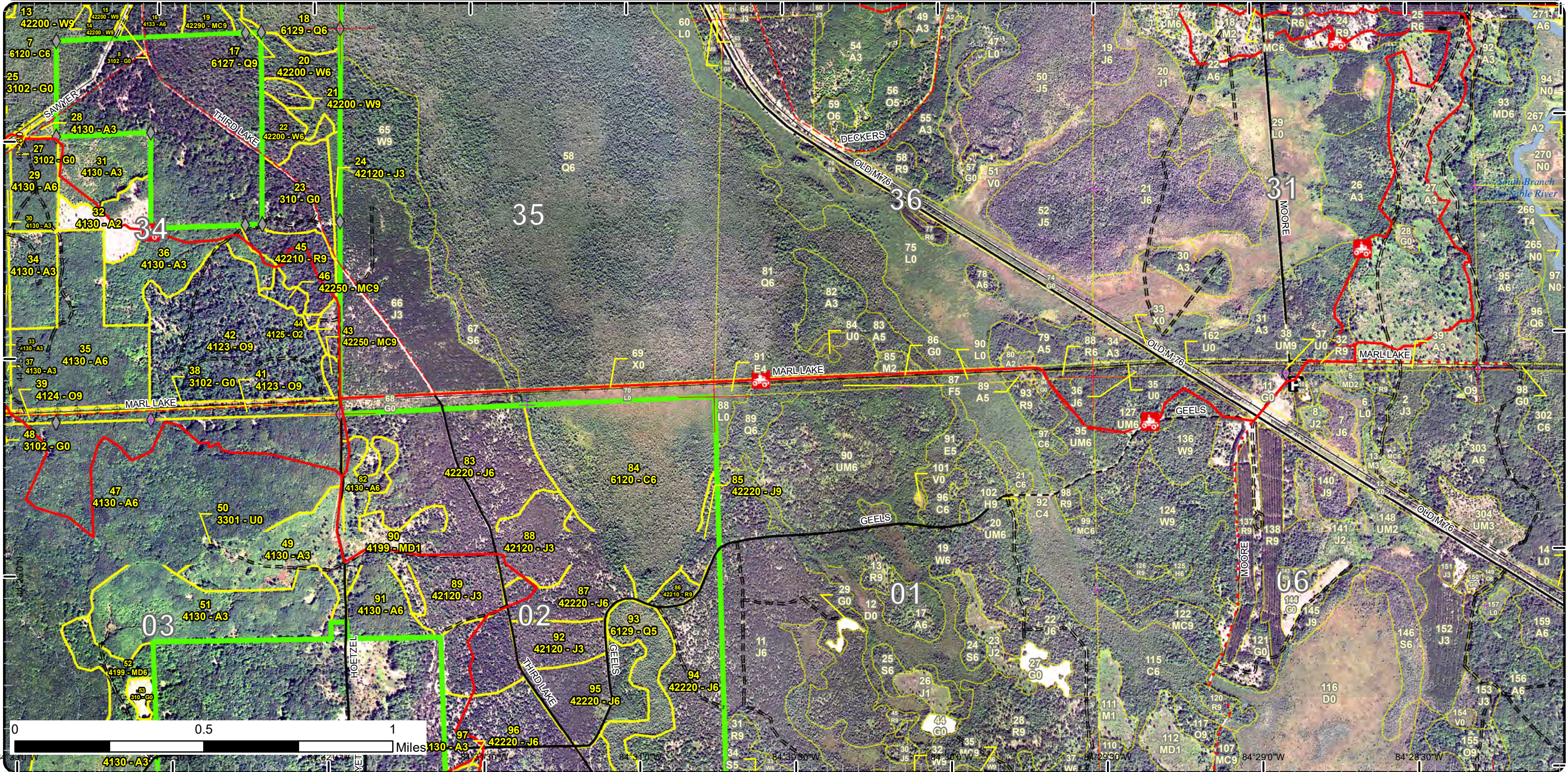


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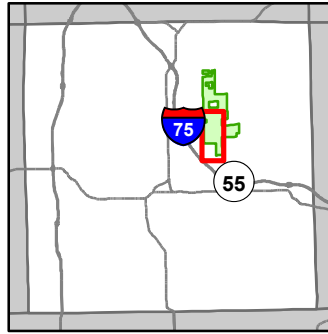
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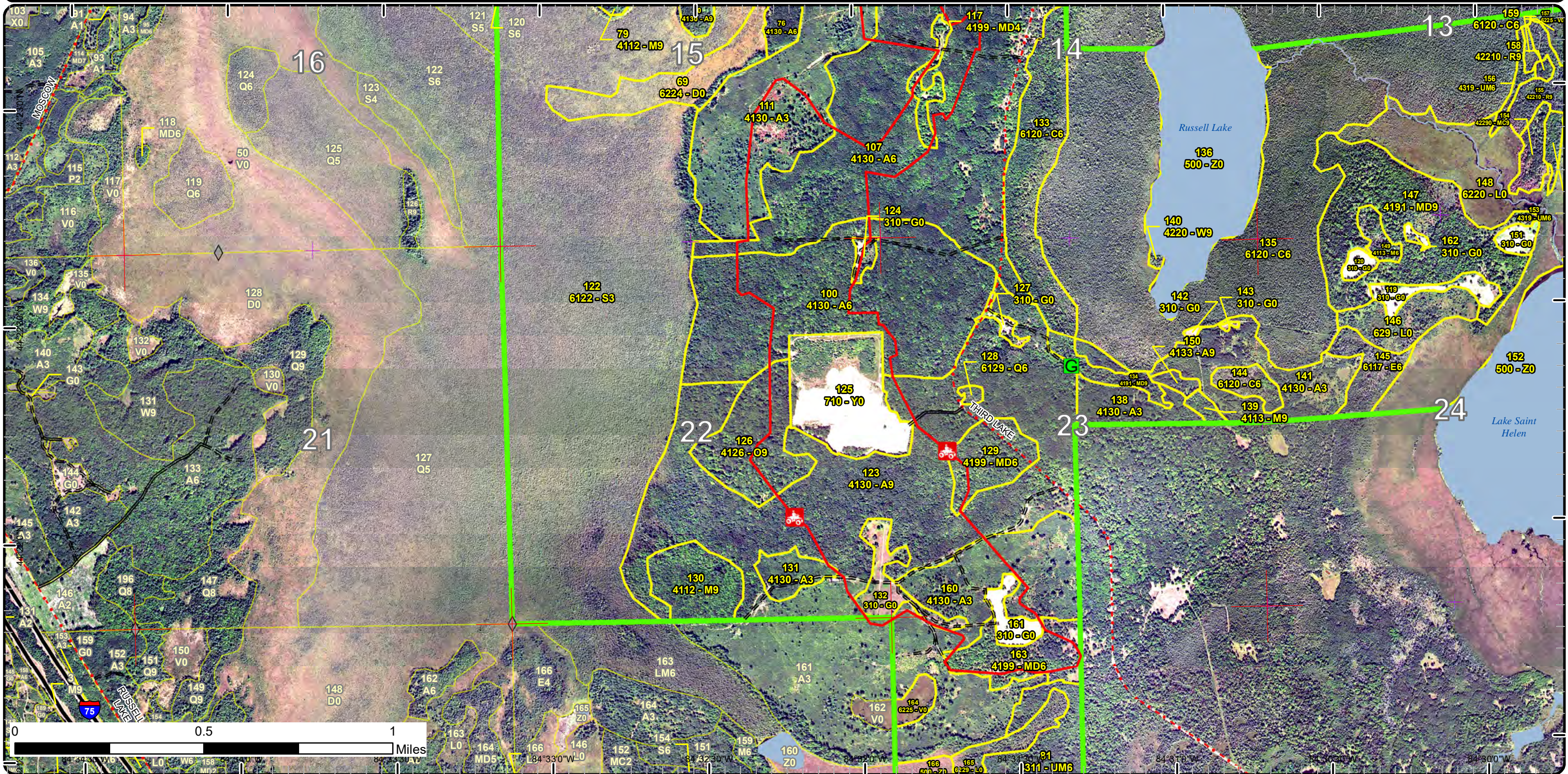


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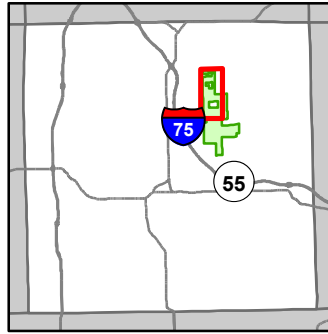


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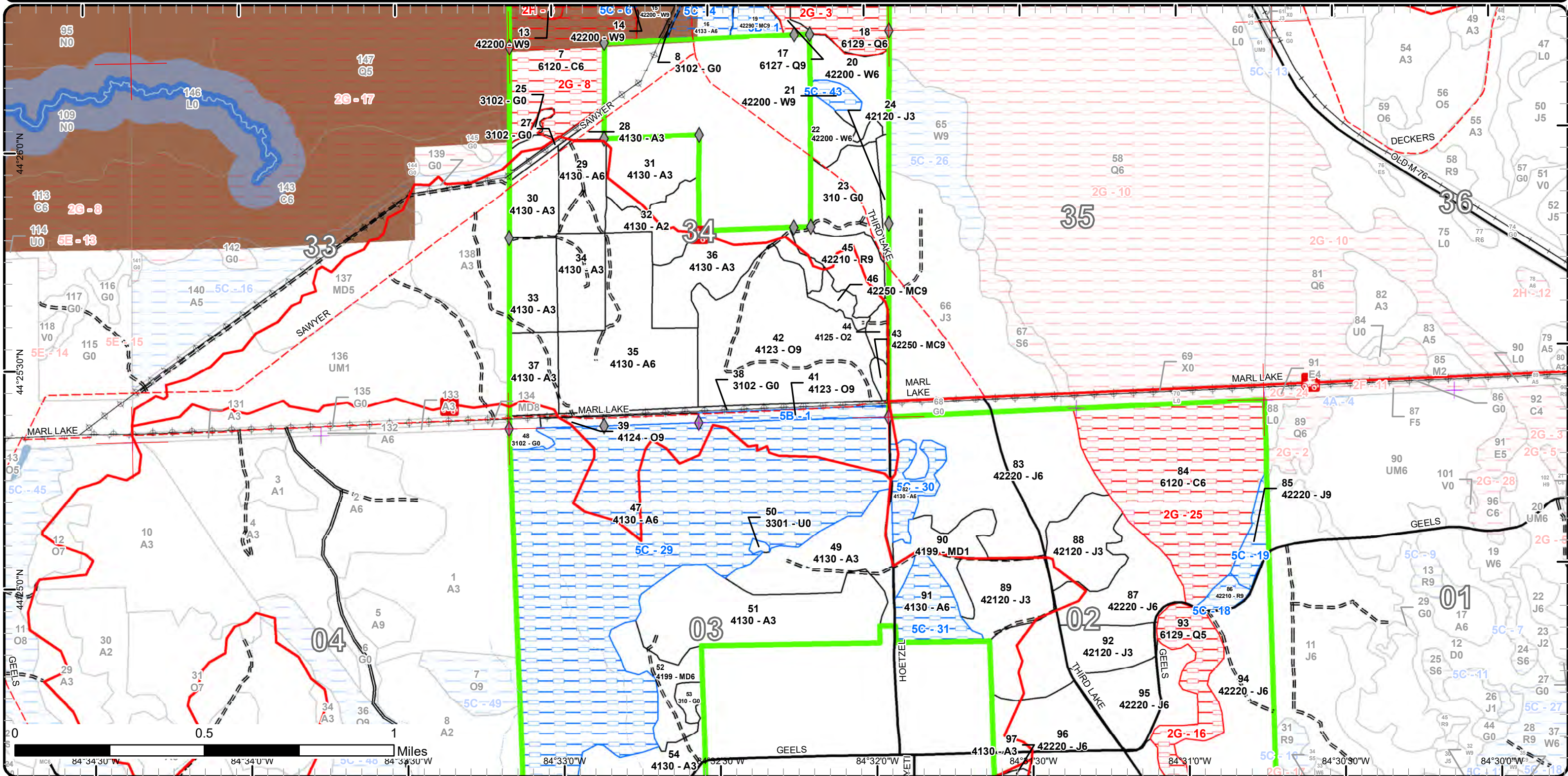


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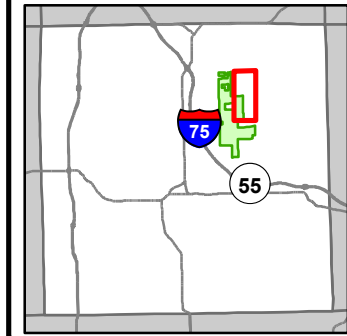


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- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Wildlife Management Areas

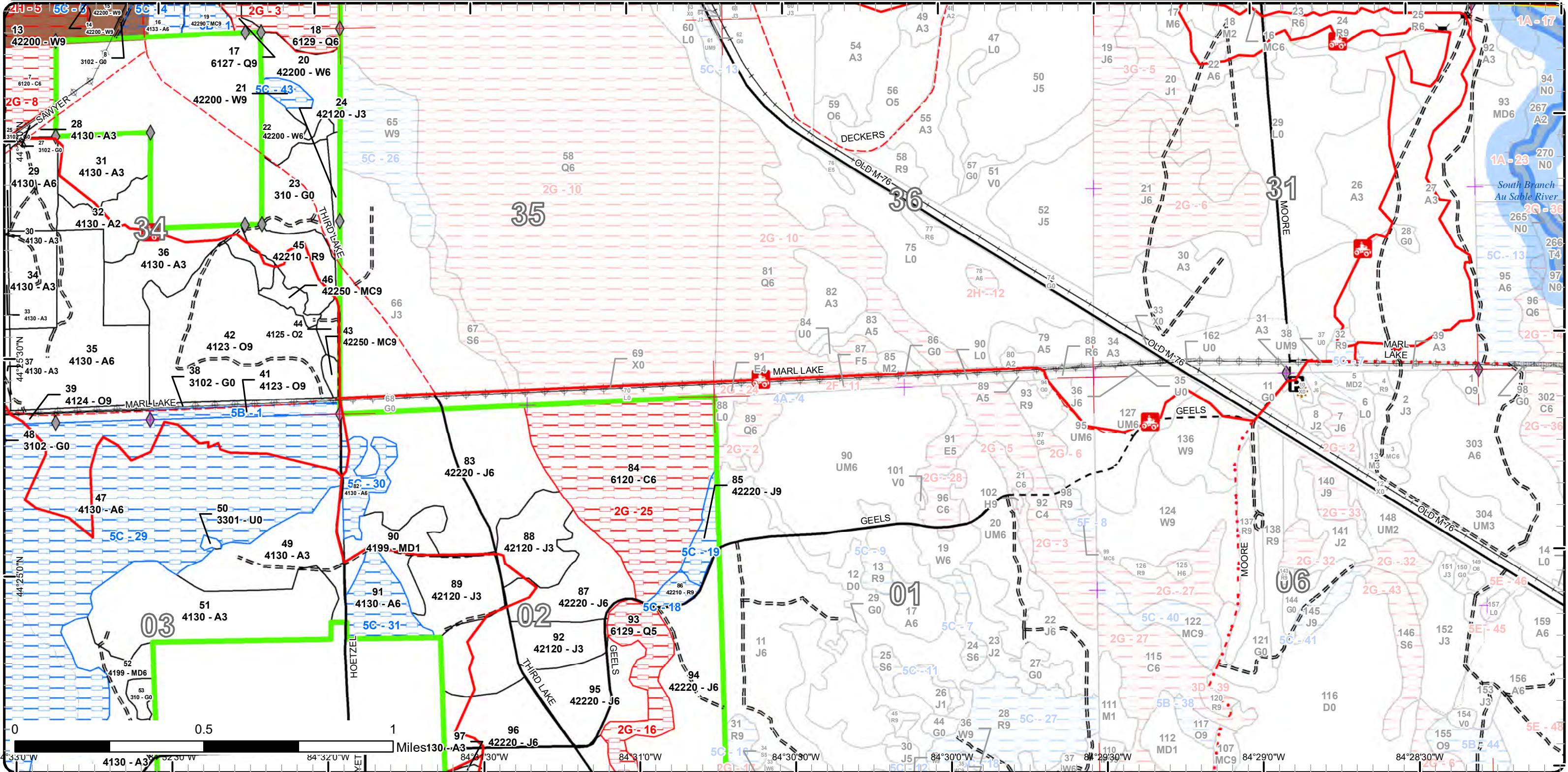


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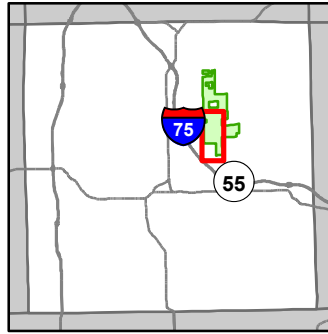


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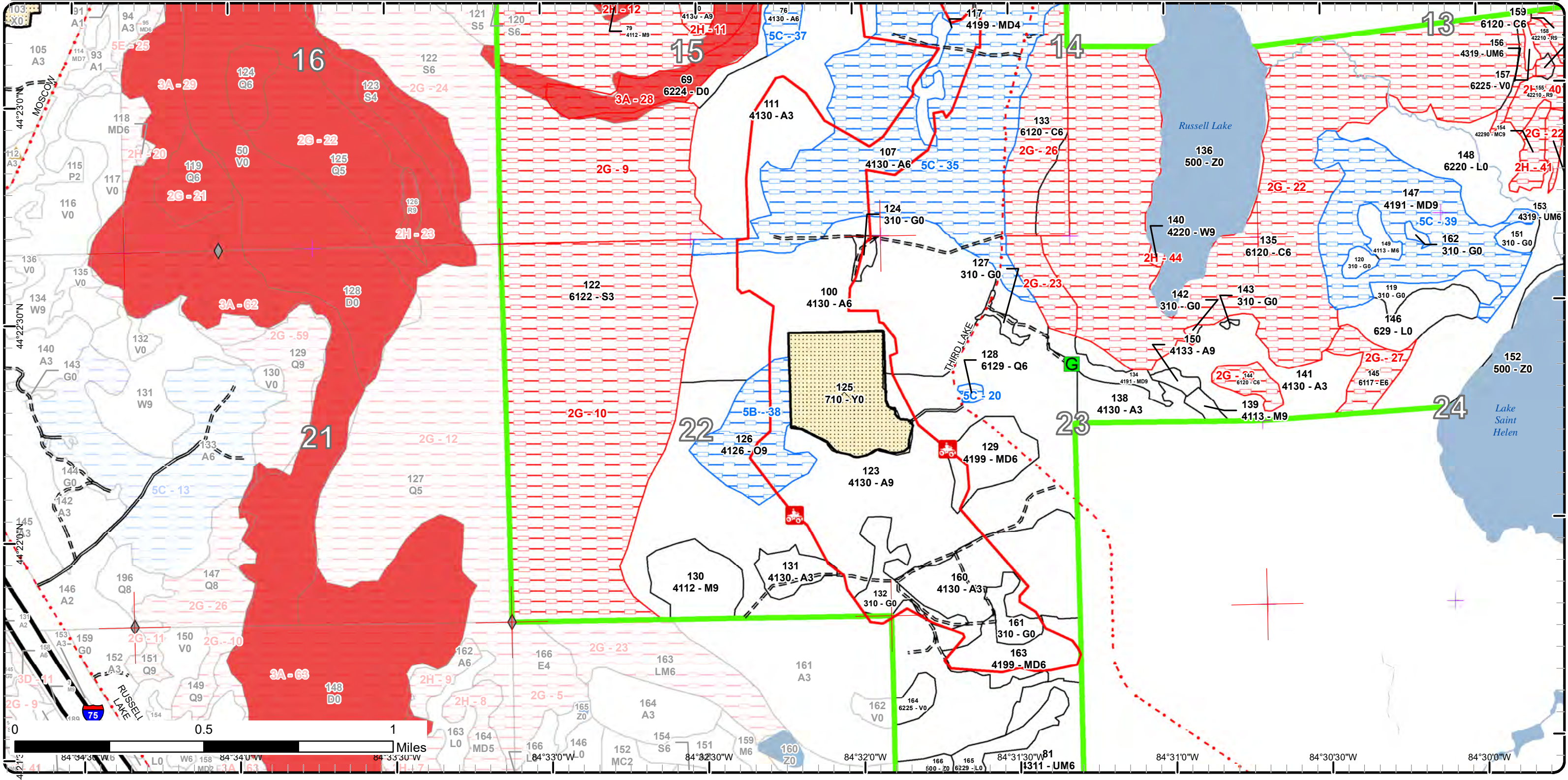


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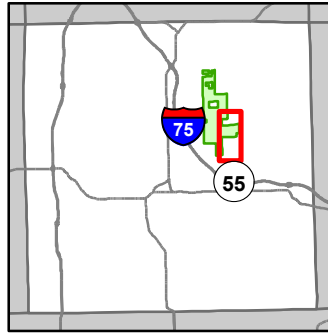


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- Unavailable
- Sand or Gravel Pit
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Sand or Gravel Pit

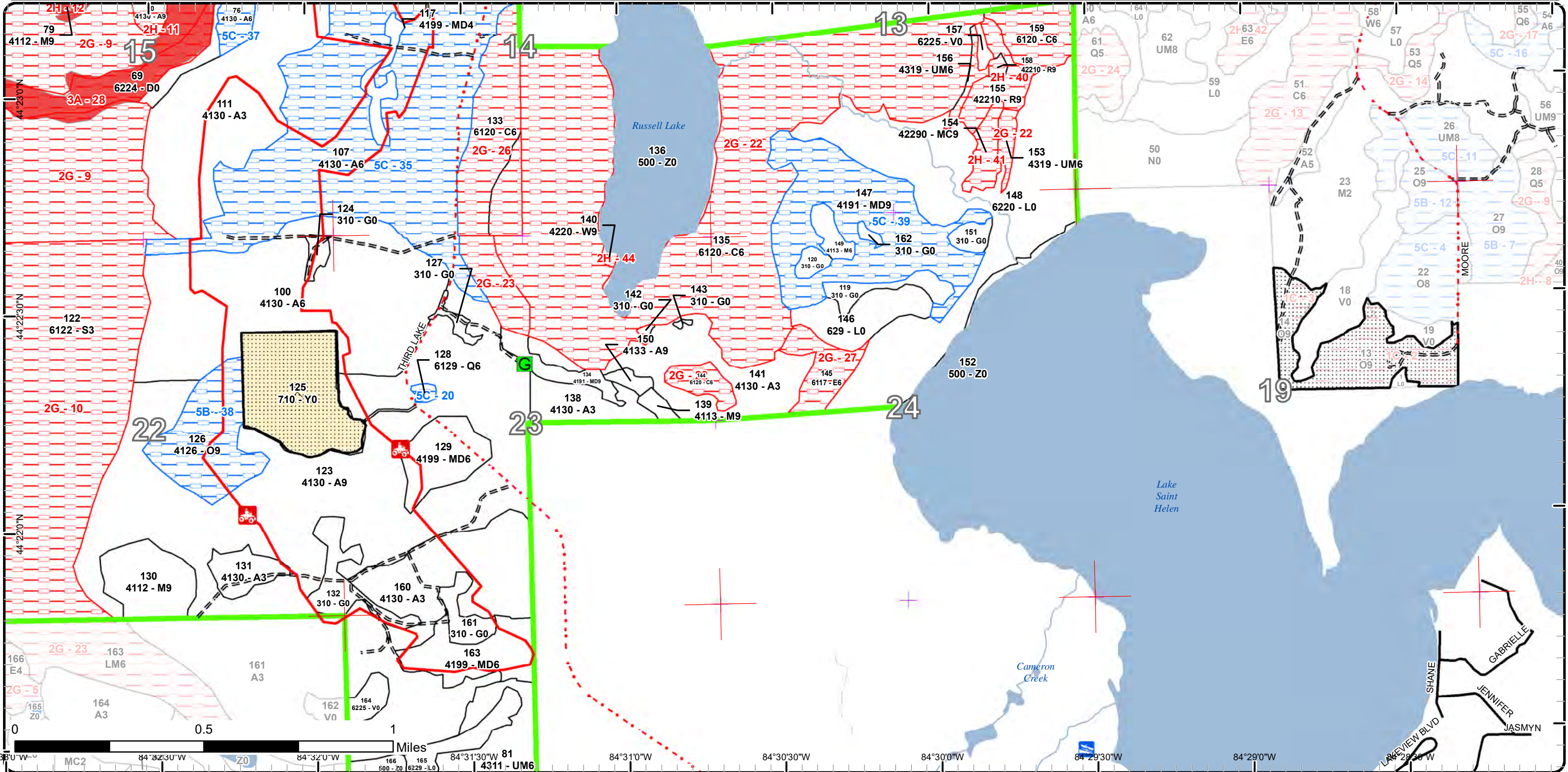


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- Stand Boundaries



Report 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment 38 Year of Entry 2021



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	581	185	162	165	434	963	0	3	21	8	0	0	0	0	0	0	0	2521
Bog	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Cedar	0	0	0	0	0	0	0	0	0	419	0	174	131	0	0	0	0	0	723
Herbaceous Openland	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
Jack Pine	0	0	0	89	122	439	0	0	9	0	0	0	0	0	0	0	0	0	658
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	0	0	0	0	0	56	0	0	0	179	0	0	0	0	0	235
Lowland Deciduous	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Lowland Mixed Forest	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	5	11
Lowland Shrub	217	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	536	0	93	0	0	0	0	0	0	629
Mixed Upland Deciduous	0	0	0	0	21	54	72	0	10	88	15	0	0	0	0	0	0	0	259
Natural Mixed Pines	0	0	0	0	0	0	5	17	0	9	3	0	0	0	0	0	0	0	34
Northern Hardwood	0	0	0	24	0	6	25	0	10	26	72	37	0	0	0	0	0	0	200
Oak	0	0	5	0	0	0	0	0	0	0	102	41	0	0	0	0	0	0	148
Red Pine	0	0	0	0	17	0	20	0	0	20	5	0	0	0	0	0	0	0	62
Sand, Soil	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Treed Bog	249	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	249
Upland Conifers	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	31
Upland Mixed Forest	0	0	12	0	36	0	3	0	0	9	0	16	0	0	0	0	0	0	76
Water	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
White Pine	0	0	0	0	0	0	71	0	0	3	0	5	33	1	0	0	0	0	113
Total	823	581	202	275	361	933	1190	17	110	1131	205	366	343	1	0	0	0	5	6539



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 38
Total Compartment Acres: 6,537

Commercial Harvest - 318
Harvests with Site Condition - 447
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	620	0	0	0	0	0	0	0	0	620
Northern Hardwood	0	54	0	0	0	0	0	0	0	54
Oak	0	0	0	91	0	0	0	0	0	91
Total	620	54	0	91	0	0	0	0	0	765

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	765	0	0	0	0	26	0	62		853
Next Step	0	91	0	0	0	145	620	91	62	1009
Total	765	91	0	0	0	145	647	91	124	1862



Stand	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:

23	71038023-Monitor	26.2	310 - Herbaceous Openland	Nonstocked	0	Immature	Monitoring	Artificial Regen(3yr)	42121 - Planted Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> third year check</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine with mixed deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
25	71038025.4_N F	1.7	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Rosco/St. Helen #11.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/30/2019</p>											
42	71038042-Cut	90.8	4123 - Red Oak	Sawtimber Well	99	51-80	Harvest	Seed Tree with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Harvest all damaged trees leaving a mix of undamaged red and white oak. Include a 1 inch spec to address the regeneration in the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Pesticide, Skidder - Site Prep; Other, Other</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak would be the primary target regeneration for this stand.</p> <p><u>Regen:</u> Following the additional treatments aspen, Maple and a conifer component would be acceptable.</p> <p><u>Other</u> Add a chipping spec to facilitate future treatments.</p> <p><u>Comment:</u> Add this series of treatments to the silviculture experiment page which is located on the intranet.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
47 71038047-Cut	330.3	4130 - Aspen	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand and manage for aspen age class distribution per the MA plan. Leave islands of aspen for retention. Orv trail runs through the stand. Protect ORV trail with appropriate specs. Use drumming log specs in contract.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen at fully stocked levels.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
53 71038053-NF	3.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Rosco/St. Helen #21.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
60 71038060-Cut	54.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	99	81-110	Harvest	Group Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Salvage beech before heavy mortality sets in from b.b.d. Mark large beech to leave for den trees when possible. Create large gaps to perpetuate regeneration. Apply herbicide to gaps to address beech brush. ORV trail runs through stand. Protect the trail with appropriate specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Accept a mix of oak and northern hardwood regeneration after beech brush is eliminated.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
63 71038063-Cut	116.9	4130 - Aspen	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest and regenerate aspen to meet Management area goals. ORV trail runs through the stand. Use appropriate specs to protect the trail. Use drumming log spec and place brush piles along swamp conifer edges.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen at fully stocked levels.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2020</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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64	71038064.51_NF	5.2	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Rosco/St. Helen #22. <u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2010</p>										

64	71038064-NF	0.0	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Rosco/St. Helen #22. <u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

66	71038066.24_NF	8.3	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous	No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Rosco/St. Helen #23. <u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2010</p>										

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
100	71038100-Cut	155.4	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand and manage for aspen age class distribution within the management area. Adjust southern boundary if needed to get most of the beech resource. Leave a buffer along western swamp edge and maybe an island or two for retention. Retain 1-3 large crowned oak per acre for mast purposes where possible. ORV trail runs through stand. Protect the trail with appropriate specs. Use drumming log specs. Apply brush pile specs</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen at fully stocked levels.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
112	71038112-Cut	17.7	4130 - Aspen	Poletimber Well	50	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand. Manage for aspen sustainability within the management area. No retention due to size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen at fully stocked levels.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
119	71038119-NF	9.2	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Rosco/St. Helen #27.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
120	71038120-NF	3.4	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Rosco/St. Helen #28.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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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132	71038132.30_NF	15.8	310 - Herbaceous Openland	Nonstocked		NonForestMgt	Mowing	31021 - Cool Season Grass		No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Rosco/St. Helen #7.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 7 /4 /2019

151	71038151-NF	4.7	310 - Herbaceous Openland	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Rosco/St. Helen #26

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

161	71038161.25_NF	8.6	310 - Herbaceous Openland	Nonstocked		NonForestMgt	Mowing	310 - Herbaceous Openland		No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Rosco/St. Helen #19.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 7 /7 /2019

162	71038162-NF	1.4	310 - Herbaceous Openland	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Rosco/St. Helen #29.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

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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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Total Treatment
Acreage Proposed: 853.4

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 38
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions							
		With Condition				4A	5B	5C	5F	2G	2H	3A	3G
2521	1547	945		29	Aspen	0	0	945		20	8		
21	21	0		0	Bog	0				0			
723	1	0		722	Cedar			0		722	0		
124	123	0		1	Herbaceous Openland		0	0		1			
659	649	9		0	Jack Pine			9		0			0
1	1	0		0	Low-Density Trees								
235	0	2		233	Lowland Conifers		0	2		233			
16	0	0		16	Lowland Deciduous					16			
11	0	0		11	Lowland Mixed Forest					11			
217	217	0		0	Lowland Shrub					0			
629	0	0		629	Lowland Spruce/Fir					629			
258	155	103		0	Mixed Upland Deciduous			103		0			
33	17	8		9	Natural Mixed Pines		7	0		0	9		
200	163	0		37	Northern Hardwood		0			0	37		
148	98	50		0	Oak		50						
62	37	8		16	Red Pine	4		5		0	16		0
53	53	0		0	Sand, Soil								
249	160	0		89	Treed Bog					0		89	
31	31	0		0	Upland Conifers								
75	50	0		25	Upland Mixed Forest					9	16		
158	158	0		0	Water					0			
113	74	21		17	White Pine			21	0	0	17		
6,537	3,557	1,147		1,834	Total Forested Acres	4	58	1,085	0	1,642	103	89	0
	54%	18%		28%	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	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 38
Year of Entry: 2021

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	92	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 38
Year of Entry: 2021

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	193	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	361	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	267	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 38
Year of Entry: 2021

13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	4A: No Markets Available for these Forest Products	4	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	87	Unspecified	Unspecified	Unspecified	Unspecified
Comments: wet cedat drainage with muck soils							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 38
Year of Entry: 2021

18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	362	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 38
Year of Entry: 2021

23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	112	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 38
Year of Entry: 2021

28	Unavailable	3A: Conservation Values incompatible with harvest at this time	89	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	330	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 38
Year of Entry: 2021

33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	117	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	425	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	5B: Maintain for regeneration purposes	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Jason Lewicki : Examiner

Compartment: 38
Year of Entry: 2021

39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	88	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	5A: Not able to obtain desirable regeneration	3	2B: Unknown if access through adjacent landowner(s) is possible	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
Comments:							
43	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Jason Lewicki : Examiner

Compartment: 38

Year of Entry: 2021

44	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	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
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
1	42120 - Planted Jack Pine	Sapling Well	42.2	21	Immature	N/A																												
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2	42110 - Planted Red Pine	Sapling Well	17.2	33	Immature	N/A	Red pine plantation with some natural jack pine mixed in. Some red pine reaching pole timber size.																											
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3	42120 - Planted Jack Pine	Sapling Well	21.3	33	Immature	N/A	Just entering pole timber size on some stems.																											
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7	6120 - Lowland Cedar	Poletimber Well	174.0	101	81-110	N/A																												
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12	42200 - Natural White Pine	Sawtimber Well	12.0	111	111-140	N/A																																				
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15	42200 - Natural White Pine	Sawtimber Well	11.1	56	51-80	N/A	Most aspen is closer to the powerline. A small, couple acre patch of natural red pine on the east side of third lake road.																																			
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16	4133 - Aspen, Mixed Pine	Poletimber Well	13.7	54	51-80	N/A	Low quality quaking aspen stand with white pine scattered about. A few oak. Heavier to pine west of the road.																																			
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17	6127 - Lowland Pine	Sawtimber Well	23.2	111	141-170	N/A	White pine sawtimber stand mixed with some swamp conifers and red maple. Found on high water table with pockets of lowland. Some large white pine throughout. Some hemlock on north east side.																																			
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19	42290 - Natural Mixed Pine	Sawtimber Well	7.6	65	81-110	N/A																																						
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20	42200 - Natural White Pine	Poletimber Well	20.4	56	81-110	N/A	Old notes indicate that this stand was cut in 1964 leaving the understory at that time.																																					
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21	42200 - Natural White Pine	Sawtimber Well	4.6	101	141-170	N/A	Stand of large red and white pine on low ground. Leatherleaf ground cover.																																					
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22	42200 - Natural White Pine	Poletimber Well	11.1	55	51-80	N/A	White pine pole timber stand with scattered oak and red pine sawtimber.																																					
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23	310 - Herbaceous Openland	Nonstocked	26.2	0	Immature	4212 - Planted Jack Pine	Clearcut Winter 2017, left scattered pine and oak and 3 small retention islands, brush piles left also for rabbit. Trenched summer of 2018. Planted in 2019. Have 52% average mortality. Replant now or wait to see how much natural comes in between now and third year check?																																					
24	42120 - Planted Jack Pine	Sapling Well	5.4	27	Immature	N/A																																						
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25	3102 - Grass	Nonstocked	1.7		Unspecified	Managed Opening																																						
27	3102 - Grass	Nonstocked	3.3			No																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
28	4130 - Aspen	Sapling Well	2.5	11	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		20	Sapling	1					
Bigtooth Aspen		70	Sapling	1	11				
Black/Red (Hybrid) Oak		10	Sapling	1					
29	4130 - Aspen	Poletimber Well	19.5	30	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		93	Pole	5	30	Red Maple	Medium	10 - 20 feet	Sapling
						Witch Hazel	Low	5 - 10 feet	Tall Shrub
30	4130 - Aspen	Sapling Well	19.8	22	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		90	Sapling/Pole	2	22				
31	4130 - Aspen	Sapling Well	25.6	12	Immature	N/A	Cut in fall of 2006		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Sapling	1		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		80	Sapling	1	12	Red Maple	Low	< 5 feet	Sapling
32	4130 - Aspen	Sapling Medium	18.8	3	Immature	N/A	Cut Late Summer/Fall 2016, Left scattered large crowned oak for mast and retention. Retention focused along trail. Some blowdown already of oaks that were left.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Sapling	1					
Bigtooth Aspen		88	Sapling	1	3				
33	4130 - Aspen	Sapling Well	20.1	30	1-50	N/A	Stand is just entering pole timber size.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		8	Sapling/Pole	4		Red Maple	Medium	10 - 20 feet	Sapling
Bigtooth Aspen		90	Sapling/Pole	4	30	Witch Hazel	Low	5 - 10 feet	Tall Shrub
34	4130 - Aspen	Sapling Well	20.9	20	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	3		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		90	Sapling/Pole	3	20	Witch Hazel	Low	5 - 10 feet	Tall Shrub
35	4130 - Aspen	Poletimber Well	75.0	30	1-50	N/A	Transitioning to A6		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		8	Pole/Sapling	5		Red Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen		90	Pole/Sapling	5	30	Witch Hazel	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
36	4130 - Aspen	Sapling Well	35.9	21	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	3		Red Maple	Low	< 5 feet	Sapling
Bigtooth Aspen		90	Sapling/Pole	3	21	Pin Cherry	Low	< 5 feet	Sapling
37	4130 - Aspen	Sapling Well	18.2	20	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		8	Sapling	2		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		90	Sapling	3	20				
38	3102 - Grass	Nonstocked	8.1			No	Powerline		
39	4124 - Red with White Oak	Sawtimber Well	2.6	99	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	6		Red Maple	Medium	5 - 10 feet	Sapling
Red Oak		58	Log	14	99	Beech	Low	5 - 10 feet	Sapling
White Oak		30	Log/Pole	12		Bigtooth Aspen	Low	10 - 20 feet	Sapling
						Witch Hazel	Low	5 - 10 feet	Tall Shrub
41	4123 - Red Oak	Sawtimber Well	9.0	99	81-110	N/A	Stand had red maple and aspen cut out of it in January of 2009.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		93	Log/Pole	12	99	Red Maple	Medium	10 - 20 feet	Sapling
						White Oak	Low	< 5 feet	Sapling
						Bigtooth Aspen	Low	10 - 20 feet	Sapling
						White Pine	Low	Variable	Sapling
						Witch Hazel	Low	5 - 10 feet	Tall Shrub
42	4123 - Red Oak	Sawtimber Well	90.8	99	51-80	N/A	Decent quality red oak stand that has been understory burned twice(2005 and 2008). Many oak have recieved fire damage to the butt logs. Some mortality. Understory is generally thick with maple, aspen and witch hazel. Drop RX burning prescription.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		95	Log/Pole	12	99	Red Maple	High	10 - 20 feet	Sapling
						Bigtooth Aspen	Low	10 - 20 feet	Sapling
						Witch Hazel	Medium	5 - 10 feet	Tall Shrub
43	42250 - Pine, Oak	Sawtimber Well	2.6	99	81-110	N/A	Small stand of mixed oak and pine. Thinned/shelterwooded 2 entries ago		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak		25	Log/Pole	13		Red Maple	Medium	5 - 10 feet	Sapling
White Pine		20	Log/Pole	13		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Red Pine		45	Log/Pole	12	99	White Pine	Medium	>20 feet	Sapling
White Oak		10	Log	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
44	4125 - Black, N. Pin Oak	Sapling Medium	4.7	10	Immature	N/A	Stand was clearcut with a 4" spec. Good oak regeneration. Some scattered pine.																																													
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45	42210 - Natural Red Pine	Sawtimber Well	20.1	55	81-110	N/A	Natural red pine stand. A few old, large, fire scarred red pine present - thinned winter 2017 by removing most jack pine and aspen and a few smaller oak and thinning the R/W pine.																																													
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47	4130 - Aspen	Poletimber Well	330.3	53	81-110	N/A	Large stand of primarily bigtooth aspen.																																													
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48	3102 - Grass	Nonstocked	5.2			No	RDR site																																													
49	4130 - Aspen	Sapling Well	41.6	7	Immature	N/A																																														
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50	3301 - Low Density Deciduous Trees	Nonstocked	0.9			No																																														
51	4130 - Aspen	Sapling Well	69.3	16	Immature	N/A																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
52	4199 - Other Mixed Upland Deciduous	Poletimber Well	19.8	53	51-80	N/A	Stand of maple and oak. Much of it in stump sprout form.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		40	Pole	6	53	Red Maple	Medium	10 - 20 feet	Sapling
Red Oak		55	Pole	7	53	Witch Hazel	Low	5 - 10 feet	Tall Shrub
						White Pine	Low	Variable	Sapling
						Pin Cherry	Low	Variable	Sapling
53	310 - Herbaceous Openland	Nonstocked	3.8		Unspecified	Managed Opening			
54	4130 - Aspen	Sapling Well	83.1	7	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling	1					
Quaking Aspen		15	Sapling	1					
Bigtooth Aspen		75	Sapling	1	7				
55	4199 - Other Mixed Upland Deciduous	Poletimber Poor	3.5	40	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry		90	Pole/Sapling	6	40	Pin Cherry	Low	5 - 10 feet	Sapling
Red Maple		10	Pole/Sapling	5					
56	4130 - Aspen	Sapling Well	37.4	16	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		80	Sapling	2	16	Pin Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen		10	Sapling	2					
57	6225 - Bog	Nonstocked	3.7			No			
58	42210 - Natural Red Pine	Sawtimber Medium	3.7	89	111-140	N/A	Thinned with surrounding clear-cut in 2003.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		30	Log/Pole	10		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Red Pine		70	Log	14	89	White Pine	Low	Variable	Sapling
59	4130 - Aspen	Sapling Well	36.5	16	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling	1		Pin Cherry	Low	Variable	Sapling
Red Oak		10	Sapling	1		Witch Hazel	High	5 - 10 feet	Tall Shrub
Bigtooth Aspen		75	Sapling	1	16	Red Maple	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
60	4119 - Mixed Northern Hardwoods	Sawtimber Well	54.0	99	81-110	N/A	Mixed stand of oak and mixed hardwoods. Stand was thinned last entry. some scattered aspen were left. Stand contains a fair amount of beech poles and sawtimber sized trees. Evidence of heavy beech bark disease.																																													
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61	4133 - Aspen, Mixed Pine	Poletimber Well	6.5	53	51-80	N/A	Stand of awpen wnd mixed pine. An area of mature red pine on western swamp edge. An area of jack pine poletimber to the east. Scattered white pine. Small bog found in the center of the stand.																																													
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62	4110 - Sugar Maple Association	Sapling Poor	5.7	53	1-50	N/A																																														
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63	4130 - Aspen	Poletimber Well	116.9	53	51-80	N/A	Long stand spread along two track. Road is wet in spots and decent wp/hardwood understory in several areas.																																													
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64	310 - Herbaceous Openland	Nonstocked	5.2		Unspecified	Managed Opening																																														
66	310 - Herbaceous Openland	Nonstocked	8.3		Unspecified	Managed Opening																																														
67	4199 - Other Mixed Upland Deciduous	Poletimber Medium	29.1	53	1-50	N/A	Lots of old white pine stumps. Cherry and red maple with scattered clones of aspen.																																													
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68	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.8	94	81-110	N/A	There is a jack pine piece on the peninsula all the way to south.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
69	6224 - Treed Bog	Nonstocked	249.2			No	Black spruce mixed with a little tamarack and white pine scattered through leatherleaf.			
70	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	4.9	104	1-50	N/A				
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	40	Log/Pole	12		Balsam Fir	High	Variable	Sapling
		Northern White Cedar	45	Pole/Log	9	104	White Pine	Low	Variable	Sapling
		White Pine	10	Log/XLog	14					
71	4112 - Maple, Beech, Cherry Association	Sapling Medium	24.3	24	Immature	N/A	Mostly red maple stump sprouts.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	85	Sapling	2	24	Beech	Low	5 - 10 feet	Sapling
		Bigtooth Aspen	10	Sapling	2					
72	3102 - Grass	Nonstocked	2.7			No				
73	4119 - Mixed Northern Hardwoods	Sawtimber Well	18.4	99	81-110	N/A	Stand was thinned with compartment to the west last entry. Beech has b.b.d. Not enough volume to salvage.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Sugar Maple	20	Pole	6		Red Maple	Medium	Variable	Sapling
		Red Maple	35	Log/Pole	12	99	Beech	Medium	Variable	Sapling
		Beech	10	Log/Pole	10	99				
		Red Oak	30	Log	14					
74	6122 - Black Spruce	Sapling Well	92.7	100	1-50	N/A				
		Canopy Species	% Cover	Size Class	DBH	Age				
		Black Spruce	100	Sapling/Pole	4	100				
75	4310 - Pine, Oak Mix	Sawtimber Well	16.4	105	81-110	N/A	Becoming multi-storied. Not many gaps, but several age classes present. Big monarch red pine with some pole and log-sized regeneration. Heavy red maple understory with white pine coming in various ages classes. Small aspen clone at the north end of the island.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	15	Log/Pole	10		Red Maple	High	10 - 20 feet	Sapling
		Black/Red (Hybrid) Oak	25	Log/XLog	16		Beech	Low	Variable	Sapling
		White Pine	10	Log/Pole	10		White Pine	Medium	Variable	Sapling
		Red Pine	48	Log/Pole/XLog	14	105				
76	4130 - Aspen	Poletimber Well	7.8	53	111-140	N/A	Some mixed pine on western swamp edge.			
		Canopy Species	% Cover	Size Class	DBH	Age				
		Bigtooth Aspen	93	Pole/Log	8	53				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
77	4130 - Aspen	Poletimber Well	10.3	53	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		98	Pole/Log	9	53	Red Maple	High	10 - 20 feet	Sapling
						Beech	Low	< 5 feet	Sapling
79	4112 - Maple, Beech, Cherry Association	Sawtimber Well	37.0	104	141-170	N/A	Island of northern hardwoods surrounded by treed bog. Has some hemlock and pine around the perimeter and more birch and black spruce to the north. Very open understory with little structure and knee high beech regen. BBD present		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		40	Log	15	104	Beech	Medium	Variable	Sapling
Red Maple		10	Log/Pole	12					
80	4130 - Aspen	Sawtimber Well	8.1	94	111-140	N/A	Island of mature aspen.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak		10	Log	16		White Pine	Low	Variable	Sapling
Bigtooth Aspen		82	Log	14	94	Red Pine	Low	10 - 20 feet	Sapling
81	4311 - Pine, Aspen Mix	Poletimber Well	35.9	35	81-110	N/A	Qaking aspen stand mixed withwhite pine and balsam fir. Aspen appears younger than stands to the north. Most aspen is under 6". Some large scattered white pine. Look at again next entry for harvest.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		40	Pole	5	35	Pin Cherry	Low	5 - 10 feet	Sapling
Red Maple		10	Pole	5		Balsam Fir	Medium	Variable	Sapling
White Pine		30	Pole/Log	9		White Pine	Low	Variable	Sapling
Balsam Fir		20	Pole	5					
82	4130 - Aspen	Poletimber Well	13.9	50	51-80	N/A	OI Stand Year Origin was 1969		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		85	Pole/Log	8	50	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak		10	Pole/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
83	42220 - Natural Jack Pine	Poletimber Well	90.5	44	1-50	N/A	Natural jack pine stand. Some oak from stumpsprouts. Some cherry brush in open areas.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		92	Pole/Sapling	5	44	Pin Cherry	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak		8	Pole/Sapling	5					
84	6120 - Lowland Cedar	Poletimber Well	112.4	119	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		75	Pole	6	119	Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce		10	Pole	6		Balsam Fir	Low	Variable	Sapling
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
85	42220 - Natural Jack Pine	Sawtimber Well	9.0	75	81-110	N/A	Variable stand of mixed pine along the swamp edge. Harvest with compartment to the east.																											
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86	42210 - Natural Red Pine	Sawtimber Well	4.8	95	81-110	N/A	Small stand of mixed red and white pine. White pine understory with some balsam fir.																											
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87	42220 - Natural Jack Pine	Poletimber Well	57.2	44	1-50	N/A	Natural jack pine stand. Some oak from stump sprouts. Some cherry brush in open areas.																											
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88	42120 - Planted Jack Pine	Sapling Well	25.3	35	1-50	N/A	Jack pine stand that was seeded in 1984. Nearing pole timbersize. Thick and stunted																											
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89	42120 - Planted Jack Pine	Sapling Well	25.9	35	1-50	N/A	Jack pine stand nearing pole timber size that was seeded in 1984.																											
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90	4199 - Other Mixed Upland Deciduous	Sapling Poor	21.3	30	Immature	N/A	Open area filled with cherry brush and some oak and jack pine.																											
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92	42120 - Planted Jack Pine	Sapling Well	18.0	35	1-50	N/A	Jack pine stand nearing pole timber size that was seeded in 1984.																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
93	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	87.2	110	51-80	N/A																																					
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94	42220 - Natural Jack Pine	Poletimber Well	69.6	44	51-80	N/A	Jack pine stand mixed with some oak and white pine. More white pine to the south. Fire origin???																																				
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95	42220 - Natural Jack Pine	Poletimber Well	34.5	44	1-50	N/A	Thick stand of natural jack pine. Some oak from stump sprouts. Some cherry brush in open areas. Some mixed pine and aspen on the east side of the road.																																				
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96	42220 - Natural Jack Pine	Poletimber Well	186.7	44	51-80	N/A	Mixed jack pine and aspen stand. Areas north of the road contains some scattered pine and oak.																																				
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97	4130 - Aspen	Sapling Well	102.9	8	Immature	N/A																																					
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99	4131 - Aspen, Oak	Poletimber Well	1.9	19	1-50	N/A																																					
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100	4130 - Aspen	Poletimber Well	155.4	44	81-110	N/A	Aspen poletimber stand with some oak and beech left from previous harvest. Many oaks are of good quality with large crowns. Beech is heavily infected with beech bark disease.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
101	4311 - Pine, Aspen Mix	Sapling Medium	11.7	17	Immature	N/A	There is a small island of mature jack pine on the south end.																																				
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102	6225 - Bog	Nonstocked	1.3			No																																					
103	42290 - Natural Mixed Pine	Sawtimber Well	9.1	60	51-80	N/A																																					
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Red Pine	40	Log	12																																								
104	42200 - Natural White Pine	Poletimber Well	28.5	50	81-110	N/A	White pine stand transitioning to sawtimber. Some larger pine scattered about as well as along the west swamp edge.																																				
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105	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	18.9	53	1-50	N/A																																					
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107	4130 - Aspen	Poletimber Well	425.1	50	81-110	N/A	Nice stand of big tooth aspen on higher better soils. Some red oak stump sprouts present. Quaking aspen present in transition areas. Stand is transitioning to sawtimber in many areas.																																				
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108	4199 - Other Mixed Upland Deciduous	Sapling Medium	13.4	50	1-50	N/A																																					
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109	4130 - Aspen	Sawtimber Well	20.6	80	81-110	N/A	Island of aspen found out in the middle of a large bog. No access. Stand is primarily made up of aspen and red maple. The highest ground in the middle of the stand has some red and white oak mixed in. A small area on the west side contains jack pine.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
110	4311 - Pine, Aspen Mix	Poletimber Well	2.7	53	51-80	N/A																																									
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111	4130 - Aspen	Sapling Well	225.2	8	Immature	N/A																																									
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112	4130 - Aspen	Poletimber Well	17.7	50	51-80	N/A	Low quality quaking aspen stand.																																								
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113	429 - Mixed Upland Conifers	Poletimber Well	31.2	50	51-80	N/A	Stand of mixed pine and fir with aspen. Some patches of natural mature red pine.																																								
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114	6225 - Bog	Nonstocked	6.0			No																																									
117	4199 - Other Mixed Upland Deciduous	Poletimber Poor	8.8	52	1-50	N/A	OPIC - FMD: Grass\cherry brush opening																																								
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119	310 - Herbaceous Openland	Nonstocked	9.2			No																																									
120	310 - Herbaceous Openland	Nonstocked	3.4		Unspecified	No																																									
122	6122 - Black Spruce	Sapling Well	535.9	85	1-50	N/A																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
123	4130 - Aspen	Sawtimber Well	278.4	44	81-110	N/A	Large aspen stand that was cut in the mid 70's. Primarily bigtooth aspen. Some quaking aspen, red maple and oak mixed mixed in. Stand is growing on a good site. Hold for aspen sustainability and age class diversity.																																								
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124	310 - Herbaceous Openland	Nonstocked	3.4			No																																									
125	710 - Sand, Soil	Nonstocked	52.7			No	Carter Pit. Leased to Reith Riley for sand and gravel mining.																																								
126	4126 - White, Black, N. Pin Oak	Sawtimber Well	41.4	105	81-110	N/A	Large, old oak with some red maple and big tooth aspen mixed in. Stand appears to have been "species thinned" in the past. Red maple and aspen are of younger age class. Hold for mast within area.																																								
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127	310 - Herbaceous Openland	Nonstocked	2.8			No	Used heavily for deer camps.																																								
128	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	1.7	75	51-80	N/A																																									
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129	4199 - Other Mixed Upland Deciduous	Poletimber Well	23.1	44	81-110	N/A	White birch stand mixed with red maple, bigtooth aspen and and some sawtimber oaks. Some beech in understory. Birch is starting to show signs of decline and mortality. More oak and less birch to the west.																																								
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130	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.3	85	81-110	N/A	Nice red maple stand with some hard maple and beech mixed in . Many beech are large with numerous nesting cavities. Beech bark disease present. Some scattered large white pines.																																								
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131	4130 - Aspen	Sapling Well	11.3	15	Immature	N/A																																									
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132	310 - Herbaceous Openland	Nonstocked	15.8			Managed Opening																																											
133	6120 - Lowland Cedar	Poletimber Well	54.5	85	81-110	N/A	Stand transitions to lowland cedar stand																																										
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134	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	9.5	75	81-110	N/A	East end contains more aspen.																																										
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135	6120 - Lowland Cedar	Poletimber Well	335.7	85	111-140	N/A	Large cedar/conifer swamp. Some small cedar regen found.																																										
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136	500 - Water	Nonstocked	102.5			No	Russell Lk.																																										
138	4130 - Aspen	Sapling Well	22.1	25	Immature	N/A	Mixed aspen stand with some large oak and beech left after the harvest. Balsam fir and red maple understory. Most of balsam fir is on lower north end. Transitioning to pole timber stand.																																										
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139	4113 - R.Maple, Conifer	Sawtimber Well	3.2	75	51-80	N/A	.Small stand of red maple and white pine.																																										
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140	4220 - Natural White Pine	Sawtimber Well	1.1	120	141-170	N/A	Can see large white pine from southern shore																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
141	4130 - Aspen	Sapling Well	45.3	24	Immature	N/A	Aspen stand that has areas of excellent paper birch regeneration, especially on the southwest end of the stand where it becomes wetter. East side of the stand is somewhat open and very wet.																																
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142	310 - Herbaceous Openland	Nonstocked	0.6			No																																	
143	310 - Herbaceous Openland	Nonstocked	0.4			No																																	
144	6120 - Lowland Cedar	Poletimber Well	8.3	85	171-200	N/A	Small pocket of cedar.																																
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145	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	16.1	75	51-80	N/A																																	
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146	629 - Mixed non-forested wetland	Nonstocked	21.8			No																																	
147	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	87.9	85	81-110	N/A	Red maple , white pine stand mixed with some birch and balsam fir. Balsam fir and white pine understory. Stand fades into a "E" type on the north edge.																																
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148	6220 - Alder/willow	Nonstocked	143.5			No																																	
149	4113 - R.Maple, Conifer	Poletimber Well	5.9	40	81-110	N/A	Scotch pine planted throughout stand. Scotchpine appears to be in poor shape. High mortality. Could leave scotch pine to die or could cut/girdle them.																																
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150	4133 - Aspen, Mixed Pine	Sawtimber Well	3.1	75	111-140	N/A																																						
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151	310 - Herbaceous Openland	Nonstocked	4.7			No																																						
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153	4319 - Mixed Upland Forest	Poletimber Well	4.6	85	81-110	N/A																																						
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154	42290 - Natural Mixed Pine	Sawtimber Well	8.9	85	111-140	N/A	High water table red and jack pine stand.																																					
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155	42210 - Natural Red Pine	Sawtimber Well	14.4	85	81-110	N/A	Some wetter areas that contain some spruce.																																					
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156	4319 - Mixed Upland Forest	Poletimber Well	4.0	85	51-80	N/A	Thin narrow stand.																																					
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157	6225 - Bog	Nonstocked	2.0			No																																						
158	42210 - Natural Red Pine	Sawtimber Well	1.5	85	81-110	N/A	Natural red pine stand.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
159	6120 - Lowland Cedar	Poletimber Well	20.0	85	1-50	N/A	Cedar/maple stand. Some open areas with tag alder.																												
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160	4130 - Aspen	Sapling Well	108.9	7	Immature	N/A	Cut winter of 2012, 2013.																												
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161	310 - Herbaceous Openland	Nonstocked	8.6			Managed Opening																													
162	310 - Herbaceous Openland	Nonstocked	1.4			Managed Opening																													
163	4199 - Other Mixed Upland Deciduous	Poletimber Well	26.8	44	1-50	N/A	Pin cherry/red maple stand.																												
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164	6225 - Bog	Nonstocked	6.2			No																													
165	6229 - Mixed lowland shrub	Nonstocked	40.6			No																													
166	500 - Water	Nonstocked	14.2			No																													
167	4130 - Aspen	Poletimber Well	50.5	37	51-80	N/A	Aspen stand mixed with white pine. Heavier white pine towards south end.																												
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168	42200 - Natural White Pine	Sawtimber Well	3.4	85	81-110	N/A	White pine stand with a balsam fir understory. A few 20"+ white pines.																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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169 6125 - Lowland Black Spruce, Jack Pine Poletimber Well 15.8 75 81-110 N/A Wet jack pine/spruce stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	40	Pole	4	75	Red Maple	Low	Variable	Sapling
Tamarack	10	Pole	4		Balsam Fir	Low	Variable	Pole
White Pine	10	Pole	5		Black Spruce	Low	Variable	Sapling
Jack Pine	40	Pole	5	75				

170 6127 - Lowland Pine Poletimber Medium 38.4 75 1-50 N/A Wet white pine stand mixed with balsam fir and black spruce. Somewhat open in areas with hummocky ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling/Pole	4		Red Maple	Low	Variable	Sapling
Black Spruce	10	Pole	6		Balsam Fir	Medium	Variable	Sapling
Tamarack	10	Pole	6		White Pine	Medium	Variable	Sapling
White Pine	70	Pole/Log	8	75				

171 622 - Lowland Shrub Nonstocked 1.7 No

172 4113 - R.Maple, Conifer Poletimber Well 6.5 75 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	60	Pole	8	75	Red Maple	Low	Variable	Sapling
Quaking Aspen	20	Pole	8		Balsam Fir	High	Variable	Sapling
Balsam Fir	20	Pole	8					

173 6220 - Alder/willow Nonstocked 5.5 No

174 6139 - Mixed Lowland Forest Poletimber Medium 6.2 75 51-80 N/A

175 622 - Lowland Shrub Nonstocked 4.2 No