



# Compartment Review Presentation

## Roscommon Forest Management Unit

Compartment 71059

Entry Year 2022

Acreage: 3,665

County Roscommon

Management Area: AuSable Outwash

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**Revision Date:** 2020-05-11

**Stand Examiner:** Brian Martell

**Legal Description:**

T23N R01W, sections 3-6, 9-11, 14-16.

**Identified Planning Goals:**

Vegetation management in the Ausable Outwash Management Area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including several state wildlife area floodings, the Roscommon Forest Fire Experiment Station, and threatened, endangered, and special concern species; and provide for forest-based recreational uses. Timber management for the next ten years 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.

**Soil and topography:**

The soils range from Crowell sands in the high ground to Tawas-Lupton mucks in the low ground. Overall, the compartment is mostly sandy outwash plain with not much topography change.

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

The compartment is one continuous block of state land and is mostly surrounded by state land in exception to a private 80 acres in section 14 and along the southern and southwest borders of the compartment.

**Unique Natural Features:**

The South Branch of the Ausable River flows through the northwest corner of the compartment in section 5 and is a "natural river." There is a Michigan Natural Features Inventory Element Occurrence of Kirtland's Warbler last observed in 2010 adjacent to the compartment in section 3.

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

There are archaeology sites within sections 6, 15, and 16.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

The South Branch of the Ausable River flows through the northwest corner of the compartment in section 5 and is a "natural river." Also, Cedar Creek and Marsh Creek run through the southeast portion of the compartment in sections 14 and 15 and eventually run into Lake Saint Helen.

**Wildlife Habitat Considerations:**

The compartment provides habitat for deer, turkey, grouse, woodcock and bear. This compartment sees heavy pressure for hunting. Management considerations include treatments that will promote hard and soft mast production for wildlife, including retention of large crown mast producing trees when possible and planting of mast producing trees and shrubs. Early successional species such as aspen should be managed to ensure young stands are always available for grouse and woodcock. To promote snowshoe hare and other small mammals, brush piles will be constructed in association with timber harvests along lowland edges. Brush pile specifications should follow recommendations provided by Wildlife Division. Aspen stands will be managed to promote young forests for early successional wildlife species. Whenever possible, aspen harvests will include drumming logs to enhance breeding habitat for ruffed grouse. Along F-97 there is an osprey nest on a power pole, which has been modified by Consumers Energy to accommodate the nest. Currently there are two managed wildlife openings within the compartment. One of those has difficult access do to flooding of the access road from beaver activity. When possible, this opening is managed with spring or fall plantings, mowing, and burning.

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

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is nearly five miles away. There appears to be some good potential for sand & gravel within the compartment, but the water table is shallow in places (and artesian conditions exist), which could inhibit surface

development. The nearest oil & gas production, past or present, is the St. Helen Field, one mile north. The field is in secondary recovery operations currently. There is currently no leasing activity within the compartment, and oil & gas potential appears to be low at this time. 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.

**Vehicle Access:**

Main vehicle access is off of F-97 and Old M-76. There are numerous state two-tracks on the high ground of the compartment that provide ample access.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Snowmobile trail 69 and St. Helen to Geels 50" ATV trail occur through much of the compartment. The Geels ORV Trailhead is also within the compartment in section 5. The trails and county roads are heavily utilized by recreational users year round for hunting, firewood collection, berry picking and wildlife viewing. The Iron Belle Trail is proposed to occur within the road right of way along old M-76.

**Fire Protection:**

This compartment has a low fire occurrence history with very little high hazard fuels. Large portion of the compartment is low ground with poor access.

**Additional Compartment Information:**

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

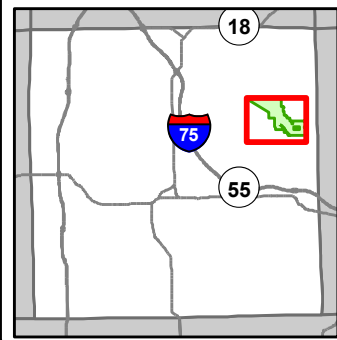
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

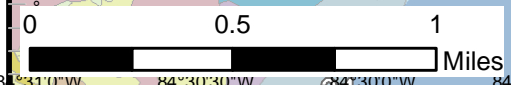
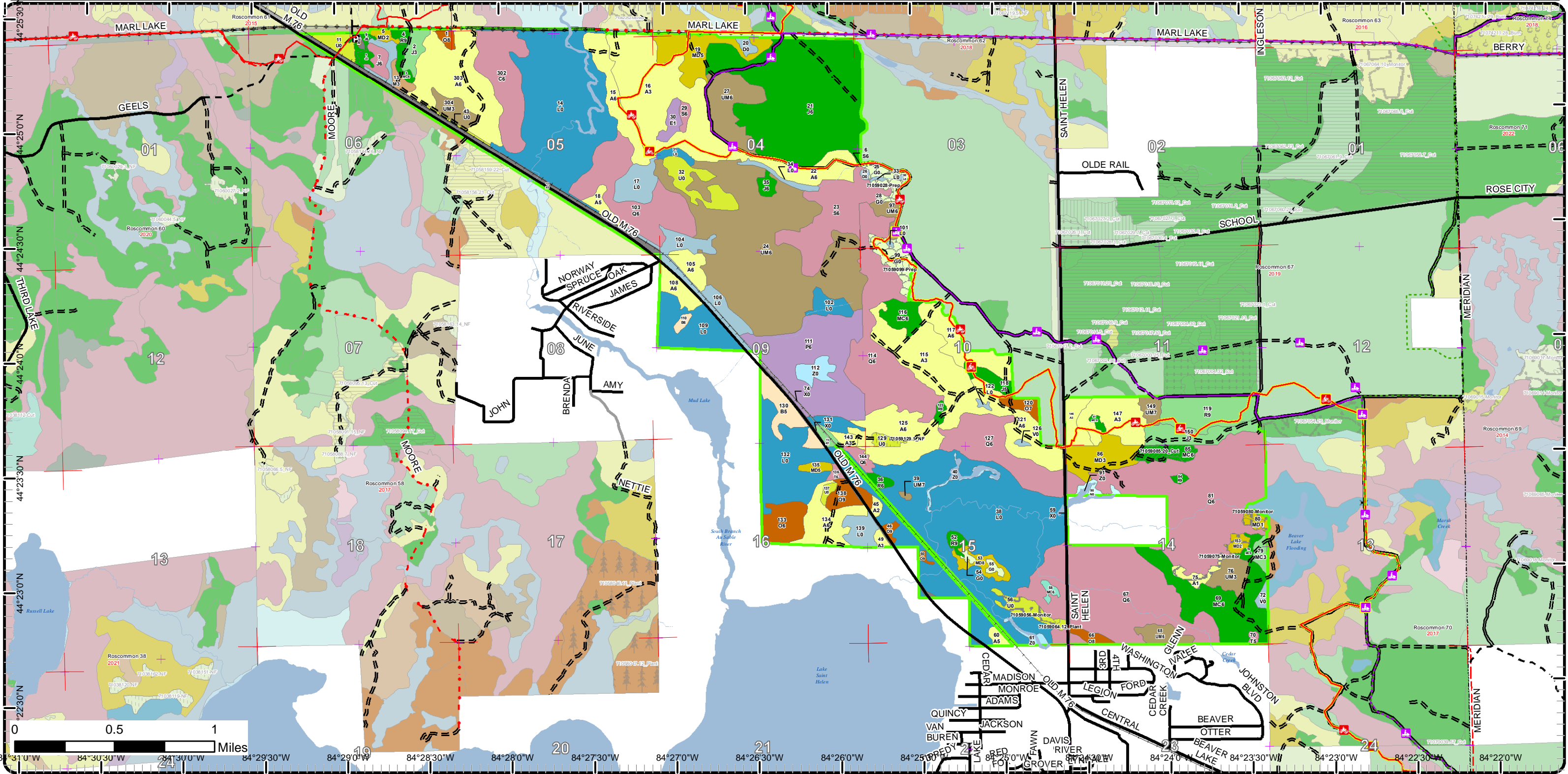
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 59  
 T23N, R01W, Sec. 3-6, 9-11, 14-16, 23  
 County: Roscommon  
 Unit: Roscommon  
 Mgmt Area: AuSable Outwash  
 YOE: 2022  
 Acres: 3665.4 GIS Calculated  
 Examiner: Brian Martell  
 Map Revised: 1/21/2021  
 Map Phase: Post-Review



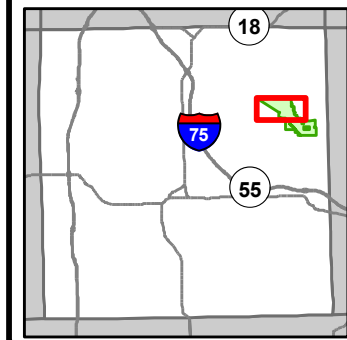
- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
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- Compartment Boundary
- Planting (tree species)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland
- 790 - Other Bare/Sparingly Vegetated



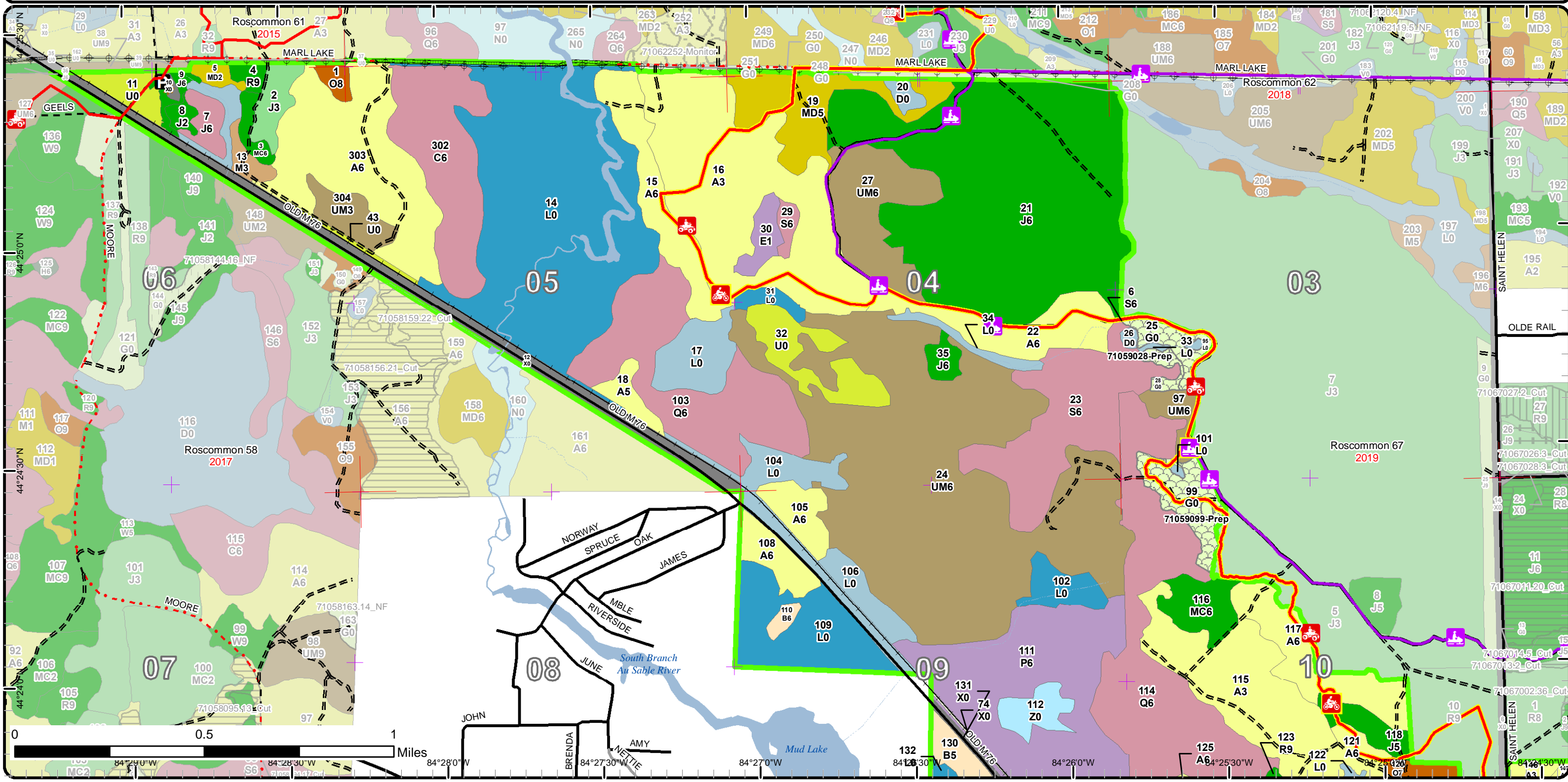
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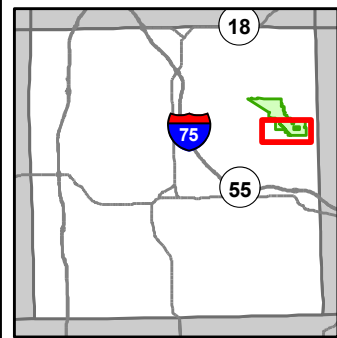


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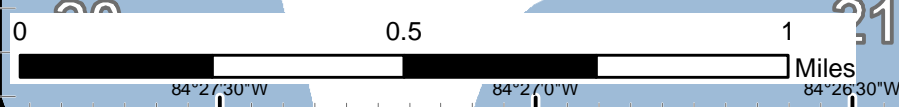
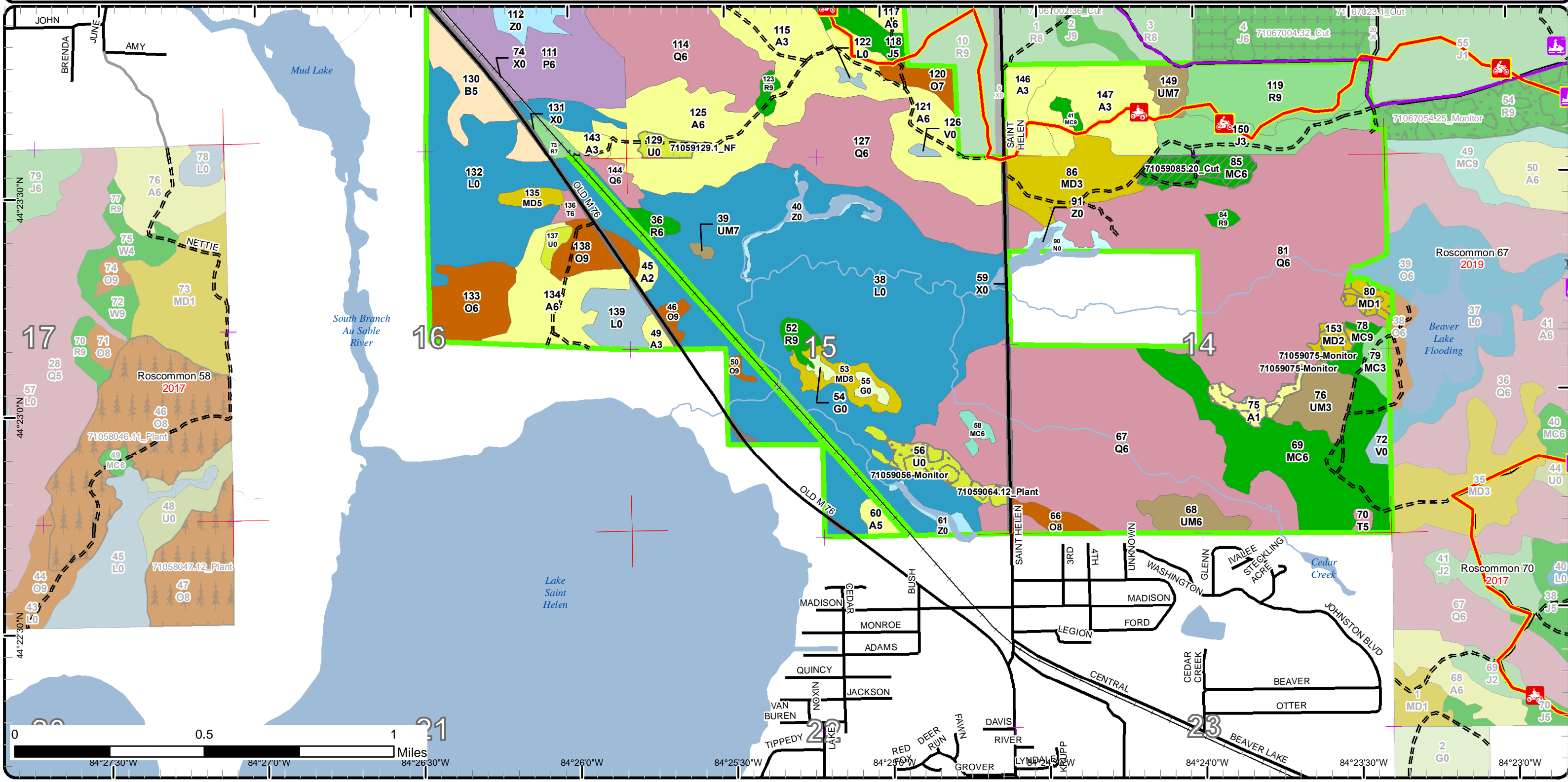


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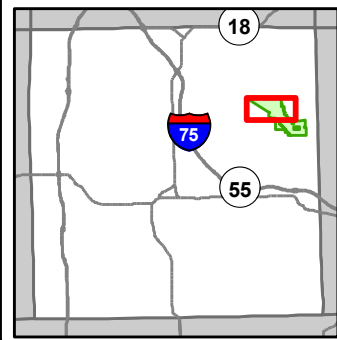


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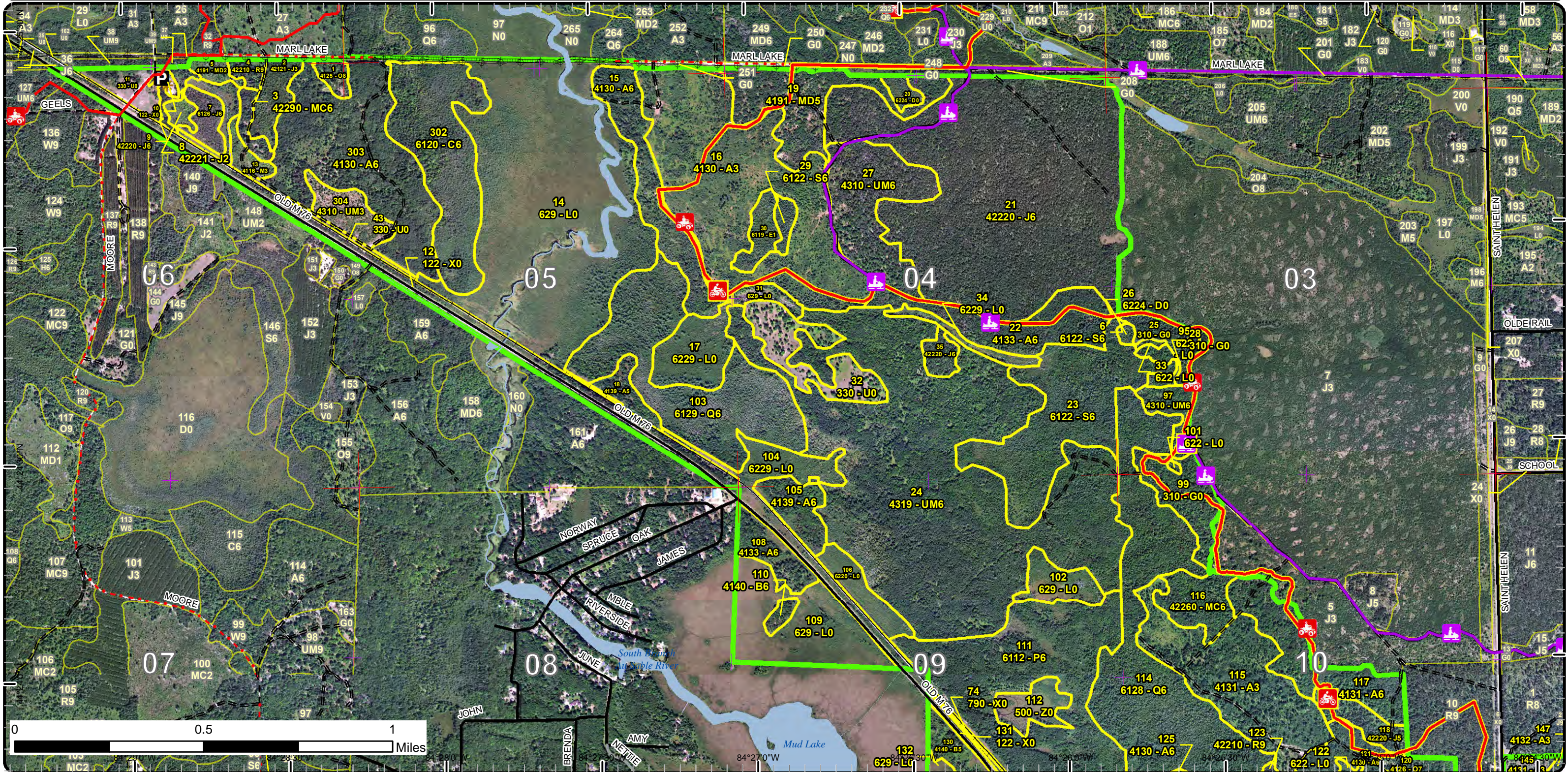


# Stand Boundary Map

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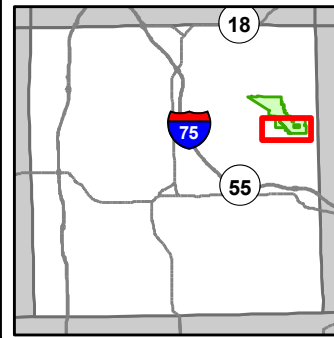


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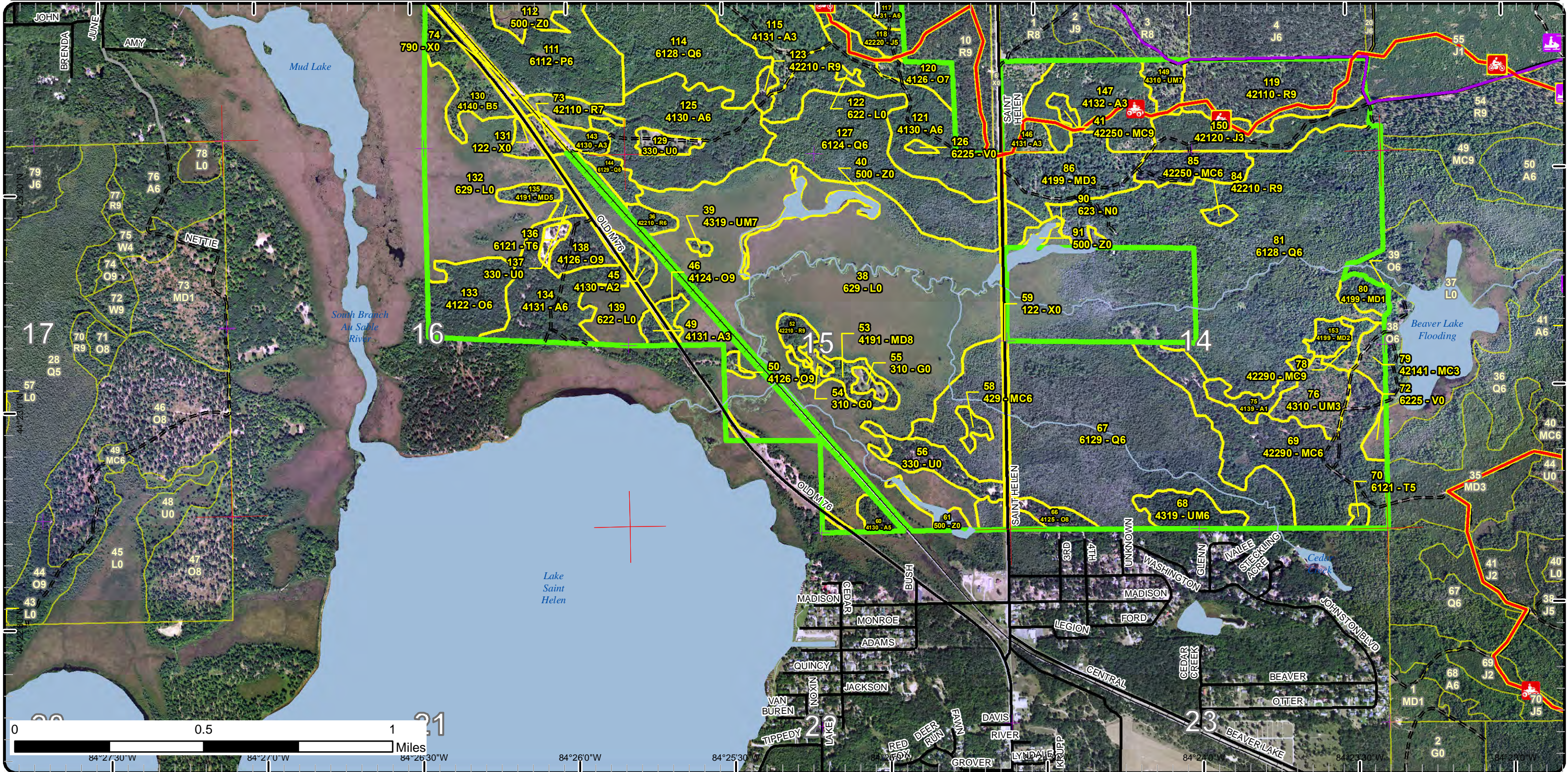


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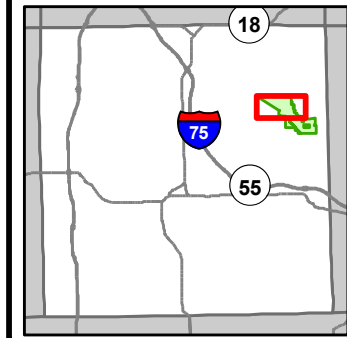


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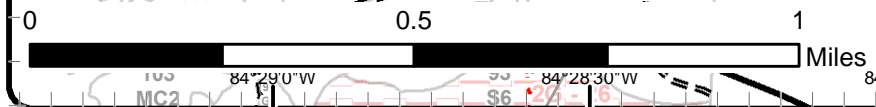
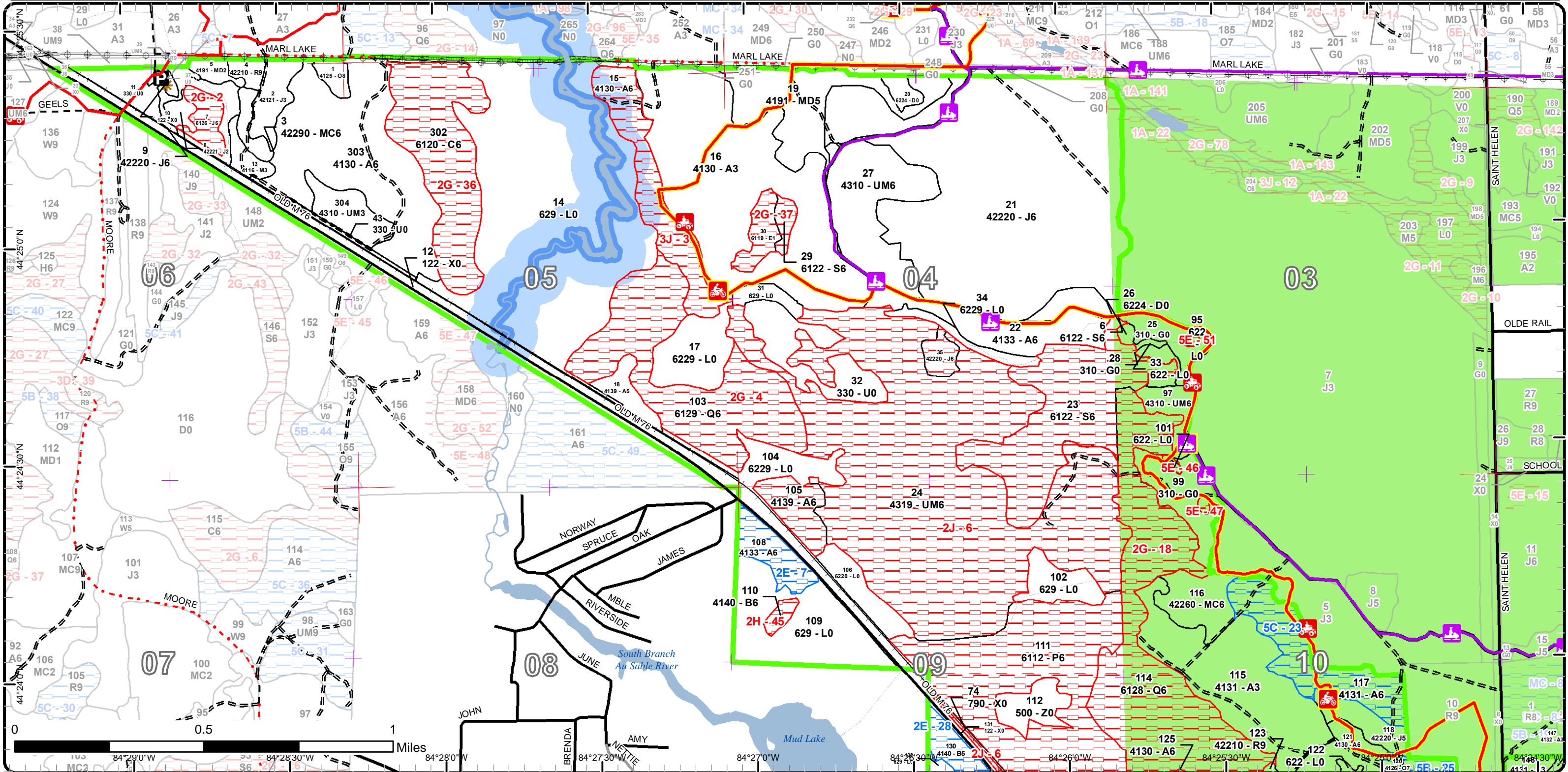


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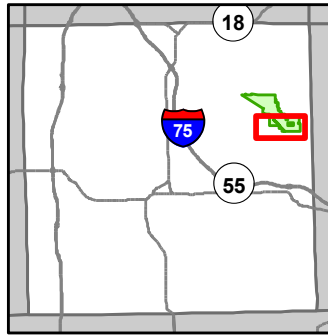
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2E: Road needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams



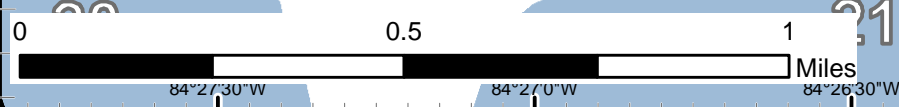
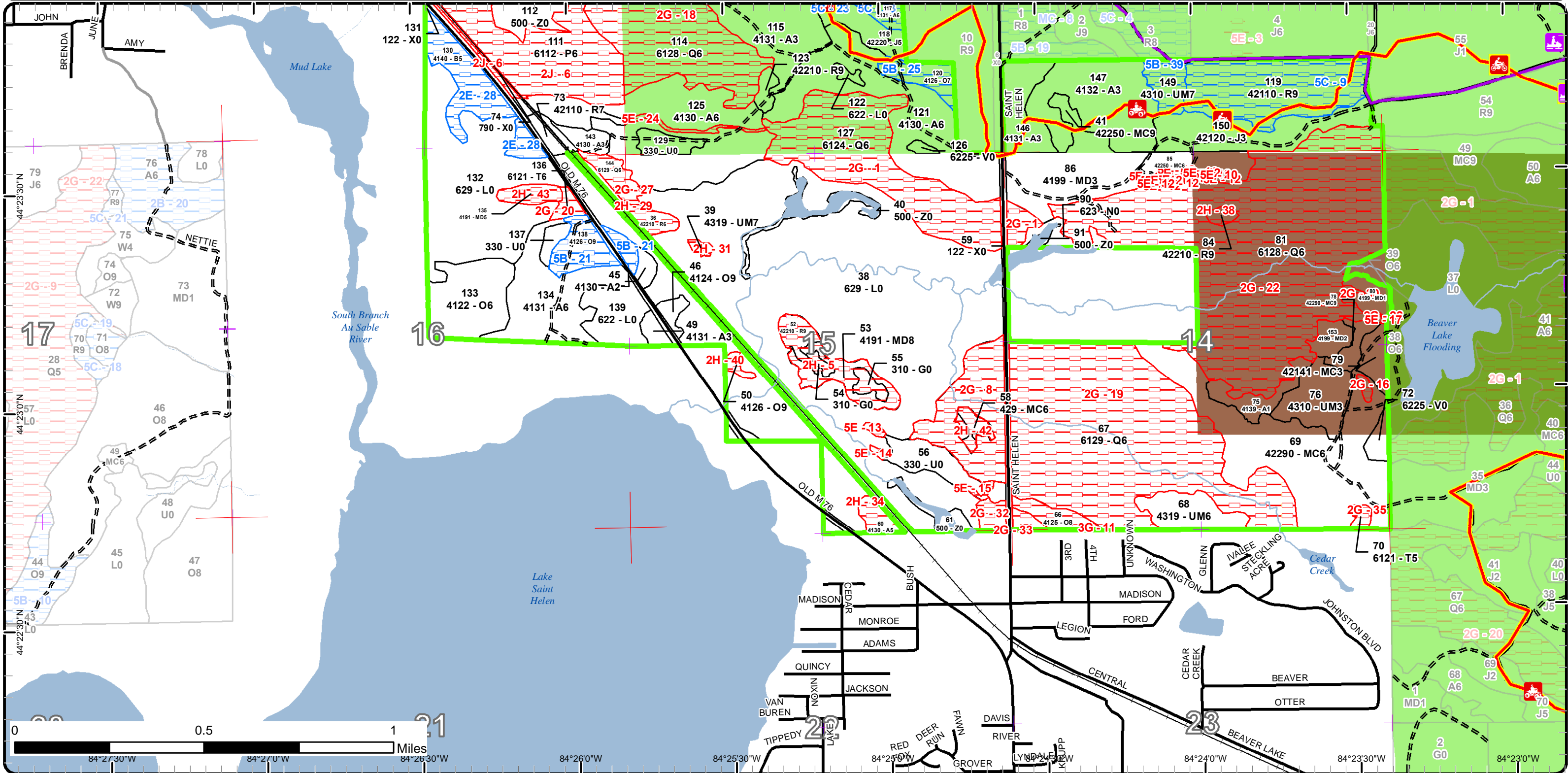


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- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Wildlife Management Areas



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	11	219	0	127	77	107	56	35	0	14	0	0	0	0	0	0	4	650
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	62
Herbaceous Openland	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Jack Pine	0	0	14	27	231	11	0	6	0	4	8	0	0	0	0	0	0	0	301
Low-Density Trees	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Lowland Aspen/Balsam Poplar	0	0	0	0	0	116	0	0	0	0	0	0	0	0	0	0	0	0	116
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	208	71	191	0	0	0	0	198	668
Lowland Deciduous	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	765	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	765
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	4	0	72	0	0	0	0	0	0	0	76
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	12	4	34	0	41	5	0	0	0	0	11	0	0	0	0	0	0	107
Natural Mixed Pines	0	0	0	0	0	17	82	0	0	0	20	0	3	0	0	0	0	0	122
Northern Hardwood	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Oak	0	0	0	0	0	26	0	0	0	0	15	23	0	0	0	0	0	0	63
Paper Birch	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	26
Planted Mixed Pines	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Red Pine	0	0	0	0	0	0	0	7	5	0	51	0	2	0	0	0	0	5	68
Tamarack	0	0	0	0	0	0	2	0	0	0	0	3	0	0	0	0	0	0	5
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Conifers	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	31	0	9	285	0	45	0	14	1	0	9	0	0	0	0	0	394
Urban	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
<b>Total</b>	<b>983</b>	<b>23</b>	<b>279</b>	<b>61</b>	<b>379</b>	<b>573</b>	<b>196</b>	<b>114</b>	<b>44</b>	<b>18</b>	<b>415</b>	<b>170</b>	<b>205</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>207</b>	<b>3664</b>



## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2022

Compartment 59  
Total Compartment Acres: 3,665

### Acres of Harvest

Commercial Harvest - 168  
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	110	0	0	0	0	0	0	0	0	110
Natural Mixed Pines	0	0	0	0	0	13	0	0	0	13
Upland Mixed Forest	45	0	0	0	0	0	0	0	0	45
<b>Total</b>	<b>155</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>169</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	169	35	1	0	0	0	30	0	31	266
Next Step	0	76	35	13	0	0	242	0	31	397
<b>Total</b>	<b>169</b>	<b>111</b>	<b>36</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>273</b>	<b>0</b>	<b>62</b>	<b>663</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

<b>27</b>	<b>71059027-Cut</b>	44.9	4310 - Pine, Oak Mix	Poletimber Well	66	51-80	Harvest	Clearcut with Retention	42250 - Pine, Oak	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inch DBH and larger. Do not chip and leave tops scattered and encourage scarification if possible. Scarify or disc areas not heavy to oak or aspen regeneration after harvest. Leave 3% retention focused in areas of smaller jack pine. Include snowmobile trail protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Other - Specify; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked stand of jack pine, oak, and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand gradually transitions to the stand to the east so try to include large oaks with dieback within the sale and exclude areas with smaller jack pine along the eastern edge.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>32</b>	<b>71059032-NF</b>	25.4	330 - Low-Density Trees	Nonstocked			Immature	NonForestMgt /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Keno Field 14.</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> Access may be difficult due to nearby beaver dam and resulting flooding.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>121</b>	<b>71059121-Cut</b>	56.2	4130 - Aspen	Poletimber Well	61		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 in. DBH and greater. Leave appropriate buffers along lowland edge and bogs. Possibly leave some retention on west side of stand to break up the continuous cut with stand 125. Include brush pile, drumming log, and ORV protection 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> Fully stocked stand of aspen mixed with red maple.</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>											

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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
<b>125 71059125-Cut</b>	54.0	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 1 inch at DBH. Use low, inoperable areas for retention of at least 3%. Include drumming log and brush pile specs and protect adjacent opening.</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> Fully stocked aspen stand with maple, oak, balsam fir, and white pine.</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>										

**Approved Treatments:**

<b>25 71059025-Prep</b>	11.0	310 - Herbaceous Openland	Nonstocked	0	Unspecified	SitePrep	Trenching	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Trench and plant red pine at normal spacing</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of planted red pine and natural HW/JP to a fully stocked stand</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /1 /2021</p>										
<b>28 71059028-Prep</b>	4.1	310 - Herbaceous Openland	Nonstocked	0	Unspecified	SitePrep	Trenching	42211 - Natural Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Trench and plant red pine at normal spacing</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> planted red pine and mixed deciduous species to a fully stocked stand</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /1 /2021</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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<b>38</b>	<b>71059056-Monitor</b>	10.9	629 - Mixed non-forested wetland	Nonstocked			Monitoring	Natural Regen (Re-Inventory)	3303 - Mixed Low Density Trees	No
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Prescription accept whatever species/amount of regeneration which occurs  
Specs:  
Next Step  
Treatments:  
Acceptable Regen: accept whatever species/amount of regeneration which occurs, parts will be fairly open and function as mini-savannahs and parts will regenerate to fully stocked condition  
Other Comment: Percent to Treat = 100%  
Site Condition  
Proposed Start Date: 6 /22/2018

<b>56</b>	<b>71059064.12_Plant</b>	1.3	330 - Low-Density Trees	Nonstocked		Immature	Planting	Initial Plant	42121 - Planted Jack Pine, Mixed Deciduous	Even-Aged	No
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Prescription hand plant to jack pine using containerized stock after sale in St#25 is complete and trash has been cleaned up  
Specs:  
Next Step  
Treatments:  
Acceptable Regen:  
Other Comment: utilize FRD personnel or some other service organization to accomplish planting  
Site Condition  
Proposed Start Date: 12/30/1899

<b>75</b>	<b>71059075-Monitor</b>	13.4	4139 - Aspen, Mixed Deciduous	Sapling Poor	3	Immature	Monitoring	Artificial Regen(1yr)	4132 - Aspen, Jack Pine	Even-Aged	No
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Prescription  
Specs:  
Next Step Seeding, Machine Seed; ; Monitoring, Artificial Regen(3yr)  
Treatments:  
Acceptable Regen: Any combination of aspen and jack pine to a fully stocked stand  
Other Comment: Percent to Treat = 100%  
Site Condition  
Proposed Start Date: 7 /29/2019

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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
<b>80 71059080-Monitor</b>	5.9	4199 - Other Mixed Upland Deciduous	Sapling Poor	3	Immature	Monitoring	Natural Regen (Re-Inventory)	4136 - Aspen, Mixed Conifer	Even-Aged	No
<u>Prescription</u> <u>Specs:</u>  <u>Next Step</u> <u>Treatments:</u>  <u>Acceptable</u> any combination of aspen, hardwoods, and conifers to a fully stocked stand is acceptable <u>Regen:</u>  <u>Other</u> Percent to Treat = 100% <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 6 /22/2018										
<b>85 71059085.20_Cut</b>	13.4	42250 - Pine, Oak	Poletimber Well	95	81-110	Harvest	Low Thinning	42250 - Pine, Oak	Even-Aged	No
<u>Prescription</u> thin west 1/2 by removing smaller oak SL trees to release pine u.s., thin east 1/2 from below to improve the quality of the stand, some parts <u>Specs:</u> of the stand may not need to be thinned at all, target residual of pine and oak combined should be 90 - 110 SF per acre  <u>Next Step</u> <u>Treatments:</u>  <u>Acceptable</u> <u>Regen:</u>  <u>Other</u> buffer/watch steep bank on the south edge of the stand, protect u.s. as much as possible with shortwood operation only and no chipping of <u>Comment:</u> tops,  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2014										
<b>99 71059099-Prep</b>	19.8	310 - Herbaceous Openland	Nonstocked	0	Unspecified	SitePrep	Trenching	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<u>Prescription</u> Trench and plant red pine at normal spacing <u>Specs:</u>  <u>Next Step</u> SitePrep, Roller Chopping; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u>  <u>Acceptable</u> any combination of planted red pine and natural HW/JP to a fully stocked stand <u>Regen:</u>  <u>Other</u> Percent to Treat = 100% <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 1 /1 /2021										



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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
129 71059129.1_N F	5.5	330 - Low-Density Trees	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Keno Field 15.</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 /2018</p>										

**Total Treatment** 265.8  
**Acreage Proposed:**



## Report 4 – Site Conditions

Roscommon Mgt. Unit  
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Compartment: 59  
 Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
650	544	50	56

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions									
					2E	5B	5C	1A	2G	2H	2J	3G	3J	5E
650	544	50	56	Aspen	14		37		0	4	14		35	2
2	2	0	0	Bare/Sparsely Vegetated										
5	5	0	0	Bog										
62	0	0	62	Cedar					62					
40	35	0	6	Herbaceous Openland					0	4				1
301	284	0	18	Jack Pine				4	8		6			
62	59	0	2	Low-Density Trees					0					2
116	0	0	116	Lowland Aspen/Balsam Poplar							116			
669	0	0	668	Lowland Conifers					667	1		0		0
9	0	0	9	Lowland Deciduous					9					
765	763	0	1	Lowland Shrub					0	0				1
76	0	0	76	Lowland Spruce/Fir					76					
5	5	0	0	Marsh										
106	90	0	16	Mixed Upland Deciduous					1	15				0
123	120	0	3	Natural Mixed Pines					1					1
5	5	0	0	Northern Hardwood										
64	33	23	8	Oak		23				2		6		
26	0	23	3	Paper Birch	23					3				
6	6	0	0	Planted Mixed Pines										
69	11	47	12	Red Pine			47			12				
5	0	0	5	Tamarack					5					
5	5	0	0	Treed Bog										
3	0	0	3	Upland Conifers					0	3				
393	99	9	286	Upland Mixed Forest		9			0	1	285			
73	73	0	0	Urban					0					
26	26	0	0	Water										
3,665	2,167	151	1,348	Total Forested Acres	37	31	83	4	828	46	420	6	35	8
	59%	4%	37%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include	71	Unspecified	Unspecified	Unspecified	Unspecified

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

Compartment: 59  
 Year of Entry: 2022

access issues)							
<b>Comments:</b>							
2	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	35	1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	85	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Island in middle of marsh							
6	Unavailable	<b>2J: Blocked by Railroad</b>	420	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Checked per SBW analysis							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

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 Year of Entry: 2022

7	Available	2E: Road needed	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too steep to truck onto old M-76.							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	3G: Other Influence zones - See comments	6	3D: Recreational / Scenic values	3G: Other Influence zones - See comments	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

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 Year of Entry: 2022

14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	189	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	153	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

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 Year of Entry: 2022

20	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	198	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

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 Year of Entry: 2022

27	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Available</b>	<b>2E: Road needed</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Difficult to enter from old M-76 and not much for landing areas.							
29	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

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 Year of Entry: 2022

33	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	62	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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Compartment: 59  
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38	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
40	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
43	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
45	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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46	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
47	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
51	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> "L" surrounded by rim of trees which is retention							

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	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
1	4125 - Black, N. Pin Oak	Sawtimber Medium	4.5	108	1-50	N/A	Stand was shelter wood cut last entry. Good stump sprout and single stem regeneration present.																																					
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2	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	11.2	10	Immature	N/A	Cut in 01 and 02 then later planted to jack pine.																																					
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3	42290 - Natural Mixed Pine	Poletimber Well	5.3	94	81-110	N/A	Mixed pine stand.																																					
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6	6122 - Black Spruce	Poletimber Well	0.0	91	51-80	N/A																																																							
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7	6126 - Lowland Jack Pine	Poletimber Well	8.0	94	81-110	N/A	High water table jack pine stand. Ground is completely covered with moss and areas of Labrador tea.																																																						
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8	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	3.2	12	Immature	N/A																																																							
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9	42220 - Natural Jack Pine	Poletimber Well	4.2	86		N/A																																																							
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10	122 - Road/Parking Lot	Nonstocked	1.6			No																																																							
11	330 - Low-Density Trees	Nonstocked	10.7			No																																																							
12	122 - Road/Parking Lot	Nonstocked	47.8			No																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**13** 4116 - Mixed N. Hardwood - Aspen Sapling Well 5.4 12 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	60	Sapling	2	12
Jack Pine	9	Sapling	2	
Quaking Aspen	20	Sapling	2	
Black/Red (Hybrid) Oak	10	Sapling	2	
Pin Cherry	1	Sapling	2	

**14** 629 - Mixed non-forested wetland Nonstocked 196.4 No

**15** 4130 - Aspen Poletimber Well 34.9 71 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	60	Pole	6	71
Black/Red (Hybrid) Oak	15	Log/Pole	12	
Bigtooth Aspen	10	Pole	6	
Red Pine	1	Log/Pole	12	
Tamarack	4	Pole	6	
Balsam Fir	10	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Pin Cherry	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

Stand was left as a buffer along the South Branch of the AuSable River and the clear cut to the east. Stand has some balsam fir tamarack mixed in in low areas. Some wet pockets in west side of stand.

**16** 4130 - Aspen Sapling Well 128.8 11 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	69	Sapling	1	11
Black/Red (Hybrid) Oak	15	Sapling/Pole	4	
Balsam Fir	5	Pole/Log	8	
Red Pine	5	Log	10	
Pin Cherry	5	Sapling	1	
White Pine	1	Log/Pole	12	

**17** 6229 - Mixed lowland shrub Nonstocked 21.8 Immature No

**18** 4139 - Aspen, Mixed Deciduous Poletimber Medium 8.0 47 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Pole/Log	8	47
Black Cherry	14	Pole	7	
Black/Red (Hybrid) Oak	13	Log/Pole	10	
Red Maple	30	Log/Pole	10	
Balsam Fir	2	Pole	7	
White Pine	1	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**19** 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 40.6 42 51-80 N/A Mixed oak and pine with some aspen and cherry brush.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Pole	7	
Black/Red (Hybrid) Oak	30	Pole/Sapling	5	42
Red Pine	5	Log/Pole	10	
Jack Pine	20	Pole/Sapling	5	
Pin Cherry	25	Sapling/Pole	4	42

**20** 6224 - Treed Bog Nonstocked 3.8 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Medium	Variable	Sapling
Jack Pine	Medium	Variable	Sapling
Black Spruce	Low	Variable	Sapling
Leatherleaf	Full	< 5 feet	Tall Shrub
Labrador Tea	Low	< 5 feet	Tall Shrub

**21** 42220 - Natural Jack Pine Poletimber Well 230.9 39 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole	6	
Northern Pin Oak	5	Pole/Log	8	
Red Pine	1	Log/Pole	10	
Jack Pine	85	Pole/Sap/Log	7	39
White Pine	4	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	Medium	5 - 10 feet	Sapling
Northern Pin Oak	Medium	10 - 20 feet	Sapling

**22** 4133 - Aspen, Mixed Pine Poletimber Well 34.5 45 51-80 N/A

Low quality quaking aspen. There is a pocket of large white pine in SE corner of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	2	Pole	6	
Quaking Aspen	60	Pole	6	45
Northern Pin Oak	5	Log/Pole	10	
Red Pine	3	Log/Pole	11	
Jack Pine	15	Pole/Log	8	
White Pine	10	Log/Pole/XLog	12	
Balsam Fir	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Pin Cherry	Low	< 5 feet	Sapling
Northern Pin Oak	Medium	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
<b>23</b>	6122 - Black Spruce	Poletimber Well	71.9	91	51-80	N/A																																																															
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<b>24</b>	4319 - Mixed Upland Forest	Poletimber Well	284.8	45	51-80	N/A	Large (acreage) primarily quaking aspen stand mixed with heavy balsam fir. Numerous wet pockets and swales more dominated by fir, balsam poplar and tag alder that are too wet to operate in. The northern half is alot drier than the southern half. Scattered red and white pine super canopy trees present. Look at harvesting next entry.																																																														
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<b>25</b>	310 - Herbaceous Openland	Nonstocked	11.0	0	Unspecified	42111 - Planted Red Pine, Mixed Deciduous	Cut Summer 2020, trench and plant red pine and manage for a mixed stand of planted RP and natural O/J regeneration																																																														
<b>26</b>	6224 - Treed Bog	Nonstocked	1.4		Immature	No	Leatherleaf and labrador tea bog with spruce, white pine and tamarack.																																																														
<b>27</b>	4310 - Pine, Oak Mix	Poletimber Well	44.9	66	51-80	N/A																																																															
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<b>28</b>	310 - Herbaceous Openland	Nonstocked	4.1	0	Unspecified	42111 - Planted Red Pine, Mixed Deciduous	Upland part of Stand 23 with a few wet potholes, Stand 23 was prescribed to CC and go for natural regeneration - Cut Summer 2020, Ch. 7 approved 9/17/2020 to trench and plant red pine																																																														





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
<b>29</b>	6122 - Black Spruce	Poletimber Well	3.9	73	1-50	N/A																																																
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<b>30</b>	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	8.8	38	1-50	N/A																																																
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<b>31</b>	629 - Mixed non-forested wetland	Nonstocked	5.2			No	Flooded timber, beaver pond.																																															
<b>32</b>	330 - Low-Density Trees	Nonstocked	25.4		Immature	Managed Opening																																																
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<b>33</b>	622 - Lowland Shrub	Nonstocked	0.8	0		No																																																
<b>34</b>	6229 - Mixed lowland shrub	Nonstocked	6.2			No	Flooded out from beaver dam.																																															
<b>35</b>	42220 - Natural Jack Pine	Poletimber Well	5.6	66	81-110	N/A																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**36** 42210 - Natural Red Pine Poletimber Well 4.5 77 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	65	Pole/Log	9	77	Balsam Fir	Low	Variable	Sapling
White Pine	5	Pole	8		White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log	12					
Red Maple	10	Log/Pole	10					
Balsam Fir	5	Pole	6					
Quaking Aspen	2	Pole/Log	8					
Paper Birch	3	Pole/Log	8					

**38** 629 - Mixed non-forested wetland Nonstocked 334.3 No

**39** 4319 - Mixed Upland Forest Sawtimber Poor 1.2 99 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	35	Log	16	99	White Pine	Medium	Variable	Sapling
White Pine	22	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Red Maple	22	Log/Pole	10					
Balsam Fir	21	Log/Pole	10					

**40** 500 - Water Nonstocked 7.9 No

**41** 42250 - Pine, Oak Sawtimber Well 2.6 110 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	45	Log/Pole/XLog	12	110	White Pine	Low	Variable	Sapling
White Pine	15	Log/Pole	12		Red Pine	Low	>20 feet	Sapling
Black/Red (Hybrid) Oak	35	Log/Pole/XLog	12	110	Red Pine	Low	>20 feet	Pole
Quaking Aspen	5	Pole	8					

**43** 330 - Low-Density Trees Nonstocked 2.6 No

**45** 4130 - Aspen Sapling Medium 2.7 16 1-50 N/A Removed aspen, red maple, and marked oak with seed-tree cut in 2004.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	4	Log/XLog/Pole	14		White Pine	Low	Variable	Sapling
Bigtooth Aspen	85	Sapling	3	16				
Black/Red (Hybrid) Oak	4	Log/XLog/Pole	14					
White Pine	2	Pole/Log/Sap	5					
Pin Cherry	5	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>46</b>	4124 - Red with White Oak	Sawtimber Well	2.9	105	51-80	N/A	small oak stand with aspen and red maple, oak is RO/BO hybrid with WO, southeast arm is lower/wetter with mostly aspen/red maple O/S and RM splng u.s., red maple u.s. ranges frm sapling to pole size, lots of deer activity in this stand - hitting acorns hard																																																		
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<b>49</b>	4131 - Aspen, Oak	Sapling Well	3.0	4	1-50	N/A	O/S ranges from wolfy old open grown RO/WO with sapling & pole size oak underneath to A6 with scattered oak XL's, u.s. is 20-40 year old aspen, red maple, and oak, stand is doing well on its own but could cut to regenerate the aspen, east end is primarily aspen/red maple																																																		
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<b>50</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	1.7	106	111-140	N/A																																																			
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<b>52</b>	42210 - Natural Red Pine	Sawtimber Well	5.1	75	141-170	N/A	Red pine stand on island surrounded by lowland. No access.																																																		
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<b>53</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	10.7	106	81-110	N/A	Mixed upland island surrounded by lowland. No access.																																																		
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<b>54</b>	310 - Herbaceous Openland	Nonstocked	1.6			No																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
56	330 - Low-Density Trees	Nonstocked	14.7		Immature	No	Cut winter 2017																																																							
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58	429 - Mixed Upland Conifers	Poletimber Well	3.3	35	141-170	N/A	Upland island surrounded by lowland. Cut to 4" or removed hardwoods in 1985 (could not find T'sale or FTP but stand was on the sale update)																																																							
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59	122 - Road/Parking Lot	Nonstocked	9.7			No																																																								
60	4130 - Aspen	Poletimber Medium	4.4	85		N/A	Stand is an island surrounded by marsh between the RR right-of-way and M-76 so no access.																																																							
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61	500 - Water	Nonstocked	4.8			No																																																								
66	4125 - Black, N. Pin Oak	Sawtimber Medium	6.3	93	51-80	N/A	Looks like lots of firewood cutting and orv damage in the past. Stand is completely closed off to vehicle access with guardrail now.																																																							
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<b>68</b>	4319 - Mixed Upland Forest	Poletimber Well	13.7	81	81-110	N/A	Some sort of non-commercial removal occurred in 1976.																																																
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<b>69</b>	42290 - Natural Mixed Pine	Poletimber Well	77.5	54	51-80	N/A	Harvested to a 4" spec in late 1998.																																																
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<b>72</b>	6225 - Bog	Nonstocked	3.9			No																																																	
<b>73</b>	42110 - Planted Red Pine	Sawtimber Poor	3.9	68	1-50	N/A																																																	
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<b>74</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.1	0		No	Railroad.																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>75</b>	4139 - Aspen, Mixed Deciduous	Sapling Poor	8.4	3	Immature	N/A	Cut Winter 2018, left scattered larger oak and R/W pine. Heavy browse.																																																						
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<b>76</b>	4310 - Pine, Oak Mix	Sapling Well	17.2	13	Immature	N/A	cut 2006 and planted to RP in 2008																																																						
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<b>79</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	6.4	13	Immature	N/A	cut 2006 and planted to JP in 2008																																																						
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<b>80</b>	4199 - Other Mixed Upland Deciduous	Sapling Poor	6.6	3	Immature	N/A	Cut Winter 2018, left scattered larger oak and R/W pine, middle of stand has a wet drainage which was painted out of the sale. A lot of the aspen looks like it's getting browsed heavily.																																																						
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85	42250 - Pine, Oak	Poletimber Well	15.2	95	81-110	N/A	parts thinned in 1996, R4W2 last YOЕ, stand now is multi-age RP from saplings to XL's, west parth is oak L-XL's with pine poles underneath and scattered RP XL's, east part has less of an oak component except for oak saplings, RP u/s thru-out stand is almost pole size, possibly thin west 1/2 by removing oak SL's to release pine u.s where feasible along with some pine L-XL's and thin east 1/2 by marking from below to improve the quality of the stand, current BA's are lower in spots which have already been thinned once, target BA should be 90 - 110 SF																																																																				
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86	4199 - Other Mixed Upland Deciduous	Sapling Well	34.0	25	1-50	N/A	Stand was seed tree cut in 1996 by removing all aspen, red maple, jack pine and some oak.																																																																				
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90	623 - Emergent Wetland	Nonstocked	4.7			No																																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
91	500 - Water	Nonstocked	1.3			No				
95	622 - Lowland Shrub	Nonstocked	0.6	0		No				
97	4310 - Pine, Oak Mix	Poletimber Well	9.2	31	51-80	N/A	Remains of strip cuts intended to regenerate jack pine, mostly in 1990.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Jack Pine	48	Pole/Sapling	5	31	Balsam Fir	Medium	Variable	Sapling
		Balsam Fir	3	Pole	6	51	Jack Pine	Medium	Variable	Sapling
		Black/Red (Hybrid) Oak	40	Pole/Sapling	5	31	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
		Red Maple	5	Pole/Sapling	5	31				
		White Pine	2	Pole	8	51				
		Red Pine	2	Pole	8	51				
99	310 - Herbaceous Openland	Nonstocked	20.9	0	Unspecified	42111 - Planted Red Pine, Mixed Deciduous	Cut Summer 2020, trench and plant RP and manage for a mix of pine and hardwoods			
101	622 - Lowland Shrub	Nonstocked	0.5			No	small, wet pothole with lowland brush			
102	629 - Mixed non-forested wetland	Nonstocked	12.6			No				
103	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	84.5	91	51-80	N/A				
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Red Maple	2	Pole	8		Balsam Fir	High	Variable	Sapling
		Paper Birch	3	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
		Balsam Fir	45	Pole	7					
		Northern White Cedar	48	Pole/Log	8	91				
		Quaking Aspen	2	Pole	7					
104	6229 - Mixed lowland shrub	Nonstocked	37.3			No				
105	4139 - Aspen, Mixed Deciduous	Poletimber Well	14.2	51	51-80	N/A	Some wet areas in stand especially to the south. More red maple and birch there. Phragmites patch at the SW edge of stand along railroad tracks.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Red Maple	15	Pole/Sap/Log	7		Red Maple	Low	Variable	Sapling
		Paper Birch	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
		Quaking Aspen	55	Pole/Log	8	51	Pin Cherry	Low	Variable	Sapling
		Black/Red (Hybrid) Oak	5	Pole/Log	8					
		White Pine	10	Log/Pole	10					
		Balsam Fir	5	Pole	7					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**106**      6220 - Alder/willow      Nonstocked      12.5                No

**108**      4133 - Aspen, Mixed Pine      Poletimber Well      13.8      91      51-80      N/A      There is a wet swale in the center of the stand and an old railroad grade also runs through stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sap/Log	6		Red Maple	Medium	Variable	Sapling
Paper Birch	2	Pole	8		White Pine	Low	Variable	Sapling
Quaking Aspen	50	Pole/Log	9	91	Pin Cherry	Low	< 5 feet	Sapling
Bigtooth Aspen	10	Log/Pole	10		Tag Alder	Trace	10 - 20 feet	Tall Shrub
Black/Red (Hybrid) Oak	3	Log/Pole	10					
White Pine	20	Log/Pole	10					
Jack Pine	5	Pole/Log	9					

**109**      629 - Mixed non-forested wetland      Nonstocked      46.6                No

**110**      4140 - Other Upland Deciduous      Poletimber Well      3.0      91      51-80      N/A      Nice birch stand with a few scattered bigtooth aspen. Core difficult to read but 90-95 yrs old. Looks like wildlife might have done some sort of oak planting as there are a bunch of green tubes protecting seedlings. Unsure what species was planted.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	95	Pole/Log	9	91	Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	5	Log/Pole	10		White Pine	Low	Variable	Sapling
					White Pine	Trace	>20 feet	Pole
					Balsam Fir	Trace	>20 feet	Pole

**111**      6112 - Lowland Aspen      Poletimber Well      115.9      45      51-80      N/A      Quaking aspen stand with numerous wet swales.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	72	Pole/Sap/Log	7	45	Red Maple	Low	Variable	Sapling
Balsam Poplar	2	Pole	7		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole/Log/Sap	7		Tag Alder	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	10	Pole/Log	8		White Pine	Low	Variable	Sapling
Tamarack	2	Pole/Sapling	6					
Red Maple	2	Pole/Sapling	6					
White Pine	2	Log/Pole	12					

**112**      500 - Water      Nonstocked      11.8                No      Beaver pond



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**114** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 117.6 91 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	5	Log/Pole	10	
Quaking Aspen	10	Pole/Log	8	
Red Maple	10	Pole/Log	8	
Paper Birch	5	Pole	7	
Northern White Cedar	35	Pole/Log	8	91
Balsam Fir	15	Pole	5	54
Black Spruce	15	Pole	7	
Tamarack	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	>20 feet	Sapling

**115** 4131 - Aspen, Oak Sapling Well 66.8 11 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	35	Sapling	1	11
White Oak	5	XLog/Log	19	
Black/Red (Hybrid) Oak	15	XLog/Log	19	
Red Maple	15	Sapling	1	
Pin Cherry	5	Sapling	1	
Quaking Aspen	15	Sapling	1	
White Pine	3	Pole	7	
Red Pine	7	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	High	Variable	Sapling
Jack Pine	Low	Variable	Sapling

cut March/April 2010, left all oak for wildlife mast and diversity, most oak is scattered throughout the sale but there are a few areas heavy to O3 and at least 1 area in the middle of the sale which is O8, also scattered pine and areas heavy to pine, NW part is lower and wetter and regenerated to mostly RM and swamp grass, lots of deer browse in this stand along the swamp edge

**116** 42260 - Natural Pine, Mixed Deciduous Poletimber Well 17.2 48 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	40	Pole/Log/XLog	8	48
Red Pine	20	Log/Pole/XLog	10	
Black/Red (Hybrid) Oak	5	Log/XLog	16	
Quaking Aspen	25	Log/Pole	10	
Red Maple	10	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Maple	Low	Variable	Sapling

WP persistent thru out the wholes stand as either sold W6 or W3 under a hardwood over-story, scattered R/W pine XL's also, removing aspen and red maple now would probably damage a lot of nice WP canopy and sub-canopy trees so recommend letting this stand fully convert to WP on its own, look at thinning this stand next YOE



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>117</b>	4131 - Aspen, Oak	Poletimber Well	36.6	59		N/A	Mostly BTA but with a few patches of quaking aspen, numerous areas heavy to oak saplings and poles or oak/WP poles and SL's, also some areas with heavy WP saplings in the under-story, conks starting to develop on the largest aspen, the extreme NW end of the stand is more of an upland mix with a heavy lots of WP and oak saplings				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		50	Pole	8	59	Black/Red (Hybrid) Oak		Medium	Variable	Sapling	
Red Maple		2	Pole/Log	8		Red Pine		Trace	Variable	Sapling	
Black/Red (Hybrid) Oak		15	Log/Pole/XLog	12		White Pine		Low	Variable	Sapling	
White Oak		6	Log	14		White Oak		Low	Variable	Sapling	
Pin Cherry		2	Pole	6		Red Maple		Low	Variable	Sapling	
Quaking Aspen		10	Pole	7		Pin Cherry		Trace	Variable	Sapling	
Jack Pine		1	Pole	7							
Red Pine		4	Log/XLog	16							
White Pine		10	Log/Pole/Sap	10							

<b>118</b>	42220 - Natural Jack Pine	Poletimber Medium	10.9	41	51-80	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		75	Pole/Log	9	41	Pin Cherry		Medium	10 - 20 feet	Sapling	
Black/Red (Hybrid) Oak		15	Pole/Log	8		Black/Red (Hybrid) Oak		Low	Variable	Sapling	
Red Maple		5	Pole/Log	8							
Quaking Aspen		5	Pole/Log	8							

<b>119</b>	42110 - Planted Red Pine	Sawtimber Well	46.6	90	81-110	N/A	REMOVED JACK PINE & MOST HARDWOODS IN 2000, THINNED WINTER 2011.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		1	Log	14		Black/Red (Hybrid) Oak		High	Variable	Sapling	
Red Pine		98	Log/Pole	12	90	White Pine		Low	Variable	Sapling	
White Pine		1	Log/Pole	12		Jack Pine		Low	Variable	Sapling	
						Red Pine		Low	Variable	Sapling	

<b>120</b>	4126 - White, Black, N. Pin Oak	Sawtimber Poor	8.8	97	1-50	N/A	cut spring 2011 and now O7O2, will probably feature the under-story next YOY as the oak gains ground				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		60	Log	14	97	Black/Red (Hybrid) Oak		High	Variable	Sapling	
White Oak		30	Log	12	97	White Oak		Low	Variable	Sapling	
Red Pine		5	Pole	6		Red Pine		Trace	Variable	Sapling	
White Pine		5	Pole	8		White Pine		Trace	Variable	Sapling	
						Red Maple		Low	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>121</b>	4130 - Aspen	Poletimber Well	56.2	61		N/A	mix of mostly BTA with a little quaking aspen, scattered areas of mostly oak or RM, numerous small wet potholes,	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		40	Pole	7	61	Red Maple		
Quaking Aspen		23	Pole	7		Black/Red (Hybrid) Oak		
Black/Red (Hybrid) Oak		10	XLog/Log/Pole	20		White Oak		
White Oak		5	XLog/Log	20		Pin Cherry		
Red Maple		14	Pole	6				
Paper Birch		2	Pole	6				
Red Pine		1	XLog	18				
White Pine		3	XLog	20				
Jack Pine		2	Pole	7				
<b>122</b>	622 - Lowland Shrub	Nonstocked	1.3	0		No		Log sized cedar and some black spruce along the edge in pockets.
<b>123</b>	42210 - Natural Red Pine	Sawtimber Well	3.0	65	171-200	N/A		Small R9 stand with some areas heavy to pine and other areas fairly sparse and open, recommend thinning by removing A/RM/JP and then marking RP to cut in areas heavy to pine, leave what little oak there is for wildlife mast
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		65	Log/Pole	12	65	Black/Red (Hybrid) Oak		
Jack Pine		15	Pole	7		Red Pine		
Black/Red (Hybrid) Oak		1	Log	12		Bigtooth Aspen		
White Oak		2	Log/XLog	16		White Pine		
Red Maple		10	Pole	6		Balsam Fir		
Bigtooth Aspen		7	Pole	6				
<b>125</b>	4130 - Aspen	Poletimber Well	56.2	58	81-110	N/A	upland but with numerous wet drainages and potholes, MIX OF B.T.A. (Upland) AND QUAKING ASPEN (Lowland), ALSO SCATTERED RM S.L. AND BALSAM FIR POLES, should hold okay until next YOE	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		45	Pole/Log	8	58	Red Maple		
Quaking Aspen		20	Pole	6	58	Balsam Fir		
Red Maple		10	Log/Pole	12				
Paper Birch		5	Pole	6				
Black/Red (Hybrid) Oak		5	Log	14				
Balsam Fir		10	Pole	6				
White Oak		3	Log/Pole	12				
Red Pine		1	Log/XLog	16				
White Pine		1	Pole	6				
<b>126</b>	6225 - Bog	Nonstocked	1.2	0		No		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>127</b>	6124 - Lowland Spruce-Fir	Poletimber Well	70.6	109		N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		33	Pole/Log	8		Balsam Fir	
Balsam Fir		19	Pole	7		High	
Northern White Cedar		33	Pole/Log	8	109	Variable	
Red Maple		10	Log/Pole	12		Sapling	
Paper Birch		2	Pole/Log	8		Tag Alder	
Quaking Aspen		3	Pole	6		Low	
						5 - 10 feet	
						Tall Shrub	

<b>129</b>	330 - Low-Density Trees	Nonstocked	5.5			No	Maintained opening with scattered hardwood trees
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Black Cherry		Low	>20 feet	Pole			
Black/Red (Hybrid) Oak		Low	>20 feet	Log			
Red Maple		Low	>20 feet	Log			

<b>130</b>	4140 - Other Upland Deciduous	Poletimber Medium	22.7	91	1-50	N/A	Wet areas within stand with tag alder and cattails. There is an eagle nest located on the west edge of the stand in a large, old quaking aspen.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		60	Pole/Log	8	91	Balsam Fir	
Quaking Aspen		20	Pole/Log	9		Low	
Balsam Fir		4	Pole	6		5 - 10 feet	
White Pine		6	Pole/Log	8		Sapling	
Red Maple		5	Pole/Sapling	5		White Pine	
Red Pine		3	Log/Pole	12		Low	
Jack Pine		2	Pole/Log	8		5 - 10 feet	
						Tall Shrub	
						Sapling	

<b>131</b>	122 - Road/Parking Lot	Nonstocked	13.9			No	M-76
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<b>132</b>	629 - Mixed non-forested wetland	Nonstocked	73.4			No	
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<b>133</b>	4122 - Oak, Pine	Poletimber Well	26.1	43	51-80	N/A	Stump sprout origin oak.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Oak		10	Pole	6		Black/Red (Hybrid) Oak	
Black/Red (Hybrid) Oak		50	Pole/Log/Sap	7	43	Low	
White Pine		27	Pole/Log/Sap	7		Variable	
Red Maple		5	Pole/Sap/Log	7		Sapling	
Red Pine		7	Log	14		White Pine	
Quaking Aspen		1	Pole/Log	8		Low	
						Variable	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
<b>134</b>	4131 - Aspen, Oak	Poletimber Well	34.2	43	51-80	N/A	Ridge of mature oak on south side just barely on state land.																																																				
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<b>135</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	4.8	56	1-50	N/A																																																					
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<b>136</b>	6121 - Tamarack	Poletimber Well	2.7	101	51-80	N/A																																																					
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<b>137</b>	330 - Low-Density Trees	Nonstocked	3.0			No	Old borrow pit																																																				
<b>138</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	13.7	106	51-80	N/A	Oak stand that was treated two entries ago. Understory seems to be doing well. Leave oak overstory to "nurse" along white pine. Good visuals along M-76.																																																				
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<b>139</b>	622 - Lowland Shrub	Nonstocked	15.1		Immature	No																																																					
<b>143</b>	4130 - Aspen	Sapling Well	4.5	16	Immature	N/A	Little aspen stand with some large white pine scattered about.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**144** 6129 - Mixed Coniferous Lowland Forest Poletimber Well 6.3 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	Low	Variable	Sapling
Balsam Fir	15	Pole	6		Balsam Fir	Low	Variable	Sapling
Black Spruce	15	Pole	6		Black Spruce	Low	Variable	Sapling
Tamarack	25	Pole/Log	9		Tamarack	Low	Variable	Sapling
Northern White Cedar	35	Pole/Log	8	99	Tag Alder	Low	5 - 10 feet	Tall Shrub

**146** 4131 - Aspen, Oak Sapling Well 15.9 19 Immature N/A Cut winter 2002.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	35	Sapling	3	19	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Quaking Aspen	52	Sapling	3	19				
Red Maple	3	Sapling	3					
White Pine	5	Log/Pole	10					
Jack Pine	2	Sapling	1					
Red Pine	3	Sapling/Pole	4					

**147** 4132 - Aspen, Jack Pine Sapling Well 39.6 30 Immature N/A Stand was cut in 1991.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	30	Sapling/Pole	3		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Pin Cherry	2	Sapling/Pole	3		White Oak	Low	Variable	Sapling
Quaking Aspen	43	Sapling/Pole	4	30	Pin Cherry	Low	Variable	Sapling
Jack Pine	20	Sapling/Pole	4		White Pine	Trace	Variable	Sapling
White Pine	2	Log/Pole	13		Red Pine	Trace	Variable	Sapling
Red Pine	3	Log/Pole	13		Jack Pine	Trace	Variable	Sapling

**149** 4310 - Pine, Oak Mix Sawtimber Poor 8.6 111 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	55	Log	14	111	Black/Red (Hybrid) Oak	High	Variable	Sapling
Jack Pine	45	Pole/Log	9		Pin Cherry	Medium	5 - 10 feet	Sapling
					Jack Pine	Low	5 - 10 feet	Sapling
					White Pine	Low	Variable	Sapling

**150** 42120 - Planted Jack Pine Sapling Well 27.3 29 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	10	Sapling	3		Pin Cherry	Low	5 - 10 feet	Sapling
Jack Pine	90	Sapling/Pole	3	29	Northern Pin Oak	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>153</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	5.4	3	Immature	N/A	Cut Winter 2018, left scattered larger oak and R/W pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	38	Sapling	1	3
Pin Cherry	45	Sapling	1	3
Red Pine	1	Log	16	
Black/Red (Hybrid) Oak	1	Log	16	
White Pine	15	Log/XLog	16	

<b>302</b>	6120 - Lowland Cedar	Poletimber Well	61.8	108	81-110	N/A	Cedar stand with pockets of somewhat higher ground dominated by balsam and maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole	6		Balsam Fir	Full	Variable	Sapling
Northern White Cedar	68	Pole/Log	8	108	Tag Alder	Medium	10 - 20 feet	Tall Shrub
Red Maple	5	Pole/Log	8					
Quaking Aspen	2	Log/Pole	10					
Paper Birch	5	Pole	6					
Black Spruce	5	Pole	6					

<b>303</b>	4130 - Aspen	Poletimber Well	87.3	32	Immature	N/A	Mixed aspen stand with some scattered pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole/Sapling	5	32	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	10	Pole/Sap/Log	6		Pin Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	30	Pole	5		Balsam Fir	Low	Variable	Sapling
Red Pine	5	Log/Pole	12					
White Pine	1	Log/Pole	13					
Jack Pine	3	Pole	8					
Pin Cherry	1	Sapling/Pole	4					

<b>304</b>	4310 - Pine, Oak Mix	Sapling Well	13.9	16	Immature	N/A	Red pine plantation with heavy oak and cherry competition.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	40	Sapling	2	16
Jack Pine	5	Sapling	2	
Black/Red (Hybrid) Oak	25	Sapling	3	
Pin Cherry	29	Sapling	2	
Bigtooth Aspen	1	Pole	9	