



# Compartment Review Presentation

## Roscommon Forest Management Unit

Compartment 71051

Entry Year 2022

Acreage: 3,715

County Roscommon

Management Area: Upper Muskegon

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

**Stand Examiner:** Doug Bates

### Legal Description:

Sections 17, 19-21, & 28-30, T22N R1W, Roscommon County

### Identified Planning Goals:

A varied compartment in both timber types and age classes. Continue the management of these species while staggering their the ages for the benefit of both social, recreational, and economic needs.

### Soil and topography:

Almost 90% of the compartment is excessive to somewhat excessively drained soils. The two soils that comprise this area is either Graycalm-Grayling Sands and/or Grayling Sands. The topography is of rolling elevations with the southeast two sections being the most varied with slopes of up to 18%. A small portion of the far northwest corner is flat consisting of very poorly drained Wakeley-Allendale soils.

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

The compartment is over 6 sections and does not have any private inholdings. The private properties lie on the outer fringes. The residential interface is light though. Most of the private properties are single owners. Only one small subdivision on Spring and Indian Lakes.

### Unique Natural Features:

None identified.

### Archeological, Historical, and Cultural Features:

None identified.

### Special Management Designations or Considerations:

No special designation for the compartment. A Kirtland warbler sighted back in 2003 and little brown bat in 1977. No proposed treatments exist where these were observed.

### Watershed and Fisheries Considerations:

Two inland lakes found in the very southeast corner consisting of Spring and Indian Lakes. These lakes are mostly found on state land with a smaller portion of the southern ends being on private with residential homes on the land.

### 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. 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. Currently there are two managed wildlife openings within the compartment which are managed with spring and fall plantings, mowing, and burning. There is a possible new opening in stand 149 along Emery Road, just south of the opening located along Emery Road on the north side of Emery.

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

No known potential exists for commercial metallic mineral production in this part of the state. An active sand/gravel pit is at the south end of Section 29. There is good sand & gravel potential 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 abandoned Denton Creek Field, three miles to the west. There are active oil & gas leases just west of the compartment, but all leases are due to expire in August 2020 and no active drilling permits or permit applications exist in the area. Oil & gas potential within the compartment is considered moderate due to the recent leasing activity.

**Vehicle Access:**

Vehicles of both passenger and ORV are easily able to access almost all areas via existing forest roads and county roads Emery and Campground that bisect portions of the compartment. Campground Road is the only public road with a gravel base. Emery Road is mostly sand that tends to shed water but do not hold up well when dry to frequent traffic.

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

Snowmobile trail 6 - ORV Route and St. Helen 50" ATV trail occur thru much of the compartment. The trails and county roads are heavily utilized by recreational users year round for hunting, firewood collection, and dispersed camping.

**Fire Protection:**

There is a history of moderate fire occurrence in this compartment. Mostly because of wildland-urban interface and forest recreation. Some larger blocks of high hazard pine fuels.

**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:**

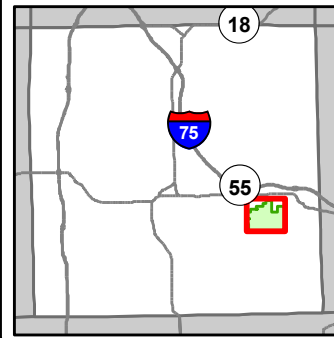
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

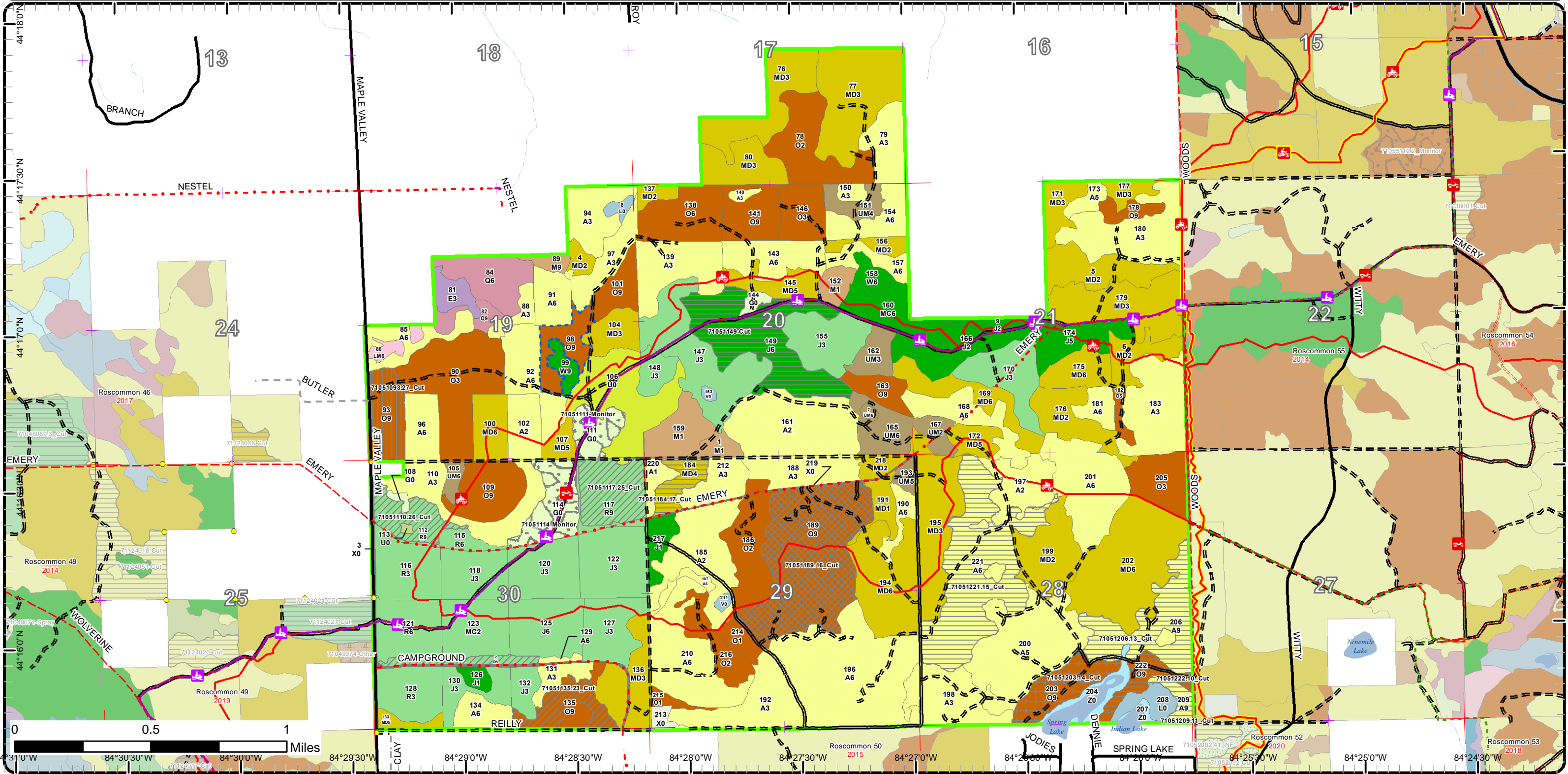
Compartment: 51  
T22N, R01W, Sec. 17, 19-21, 28-30

County: Roscommon  
Unit: Roscommon  
Mgmt Area: Upper Muskegon  
YOE: 2022

Acres: 3715.1 GIS Calculated  
Examiner: Doug Bates  
Map Revised: 2/5/2021  
Map Phase: Post-Review



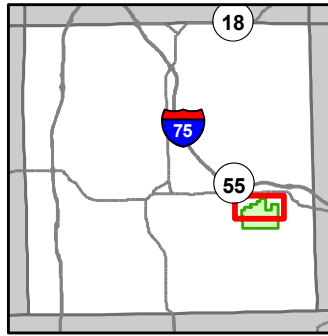
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
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- DNR - Forest Access Route
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- Treatments with Site Conditions
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- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
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- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated



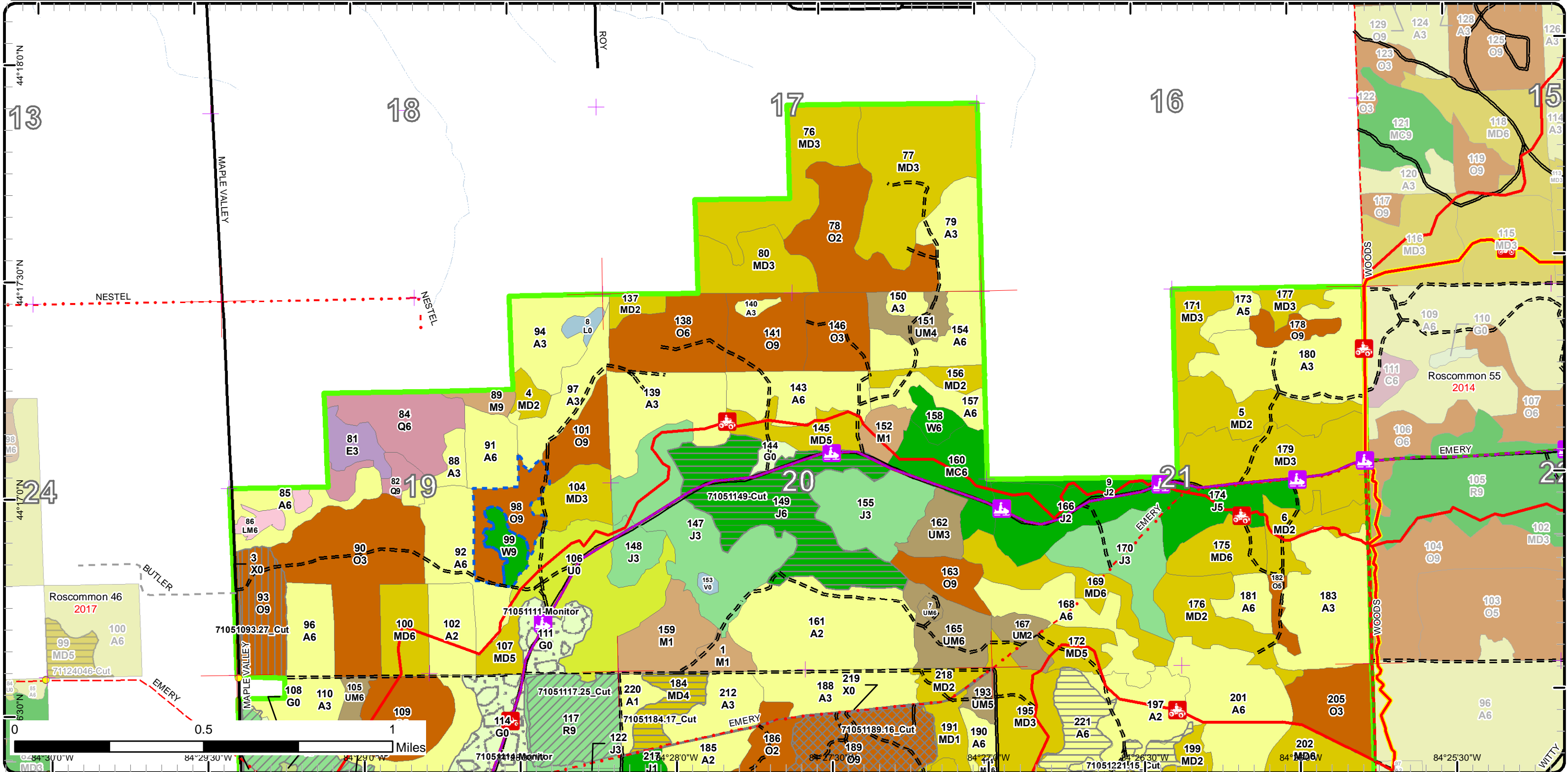


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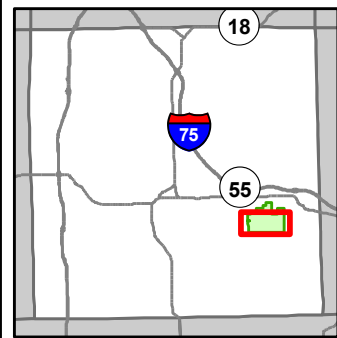


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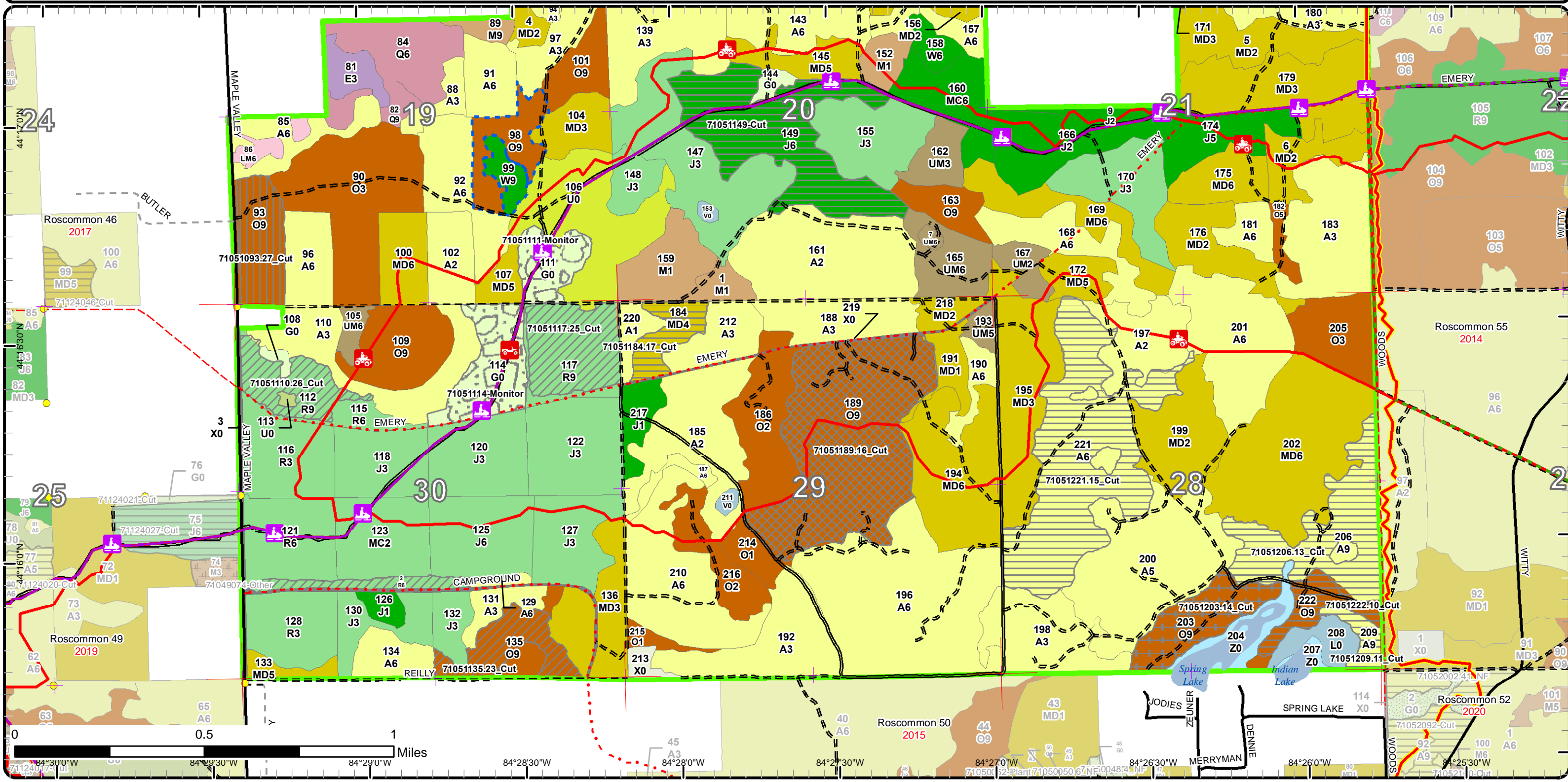


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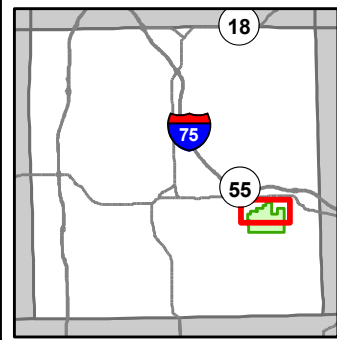
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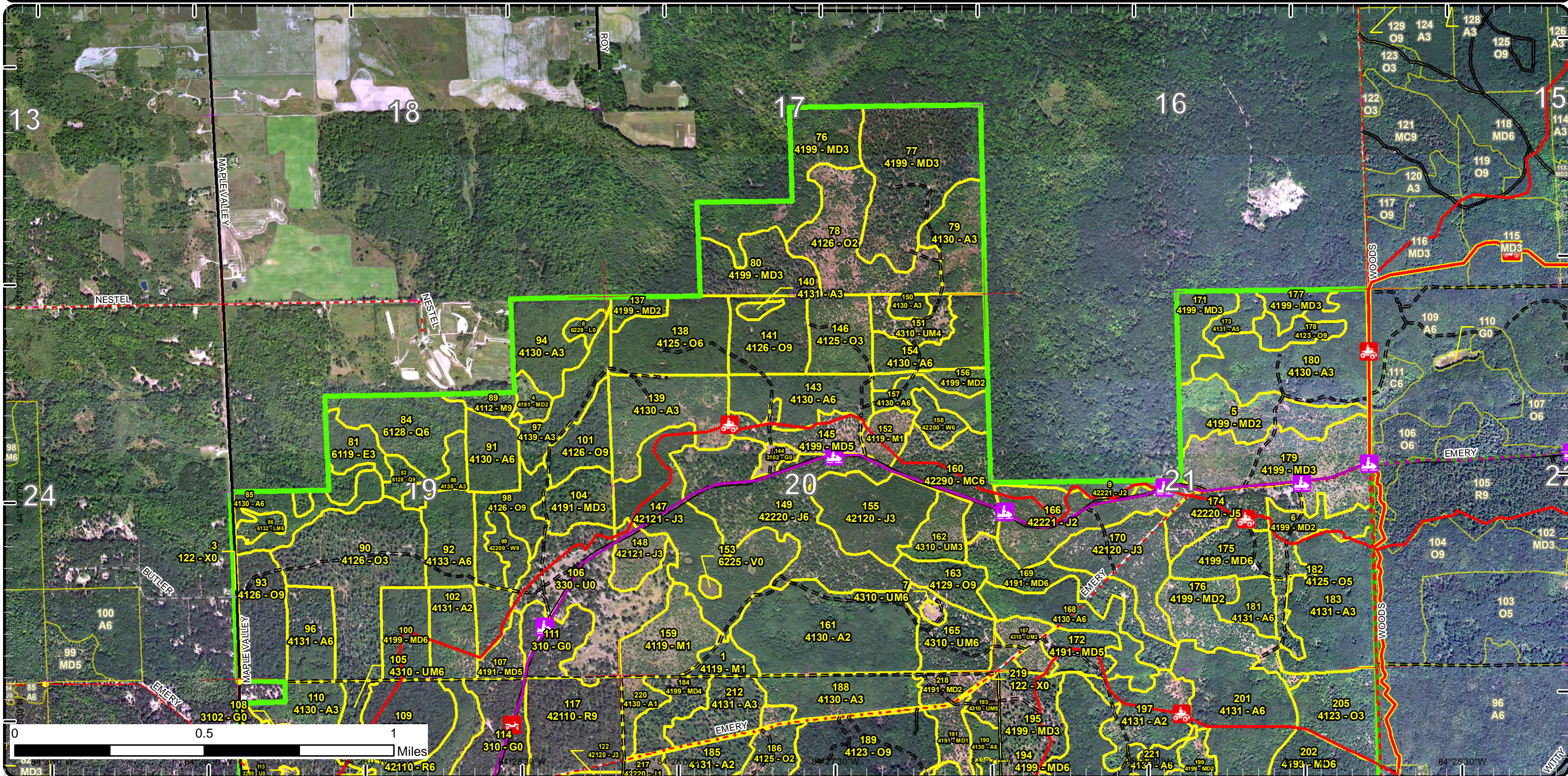


# Stand Boundary Map

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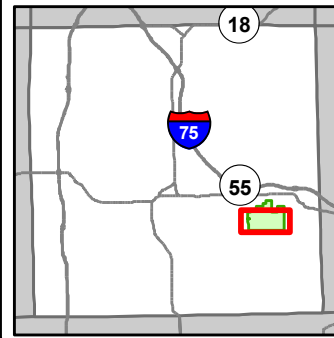


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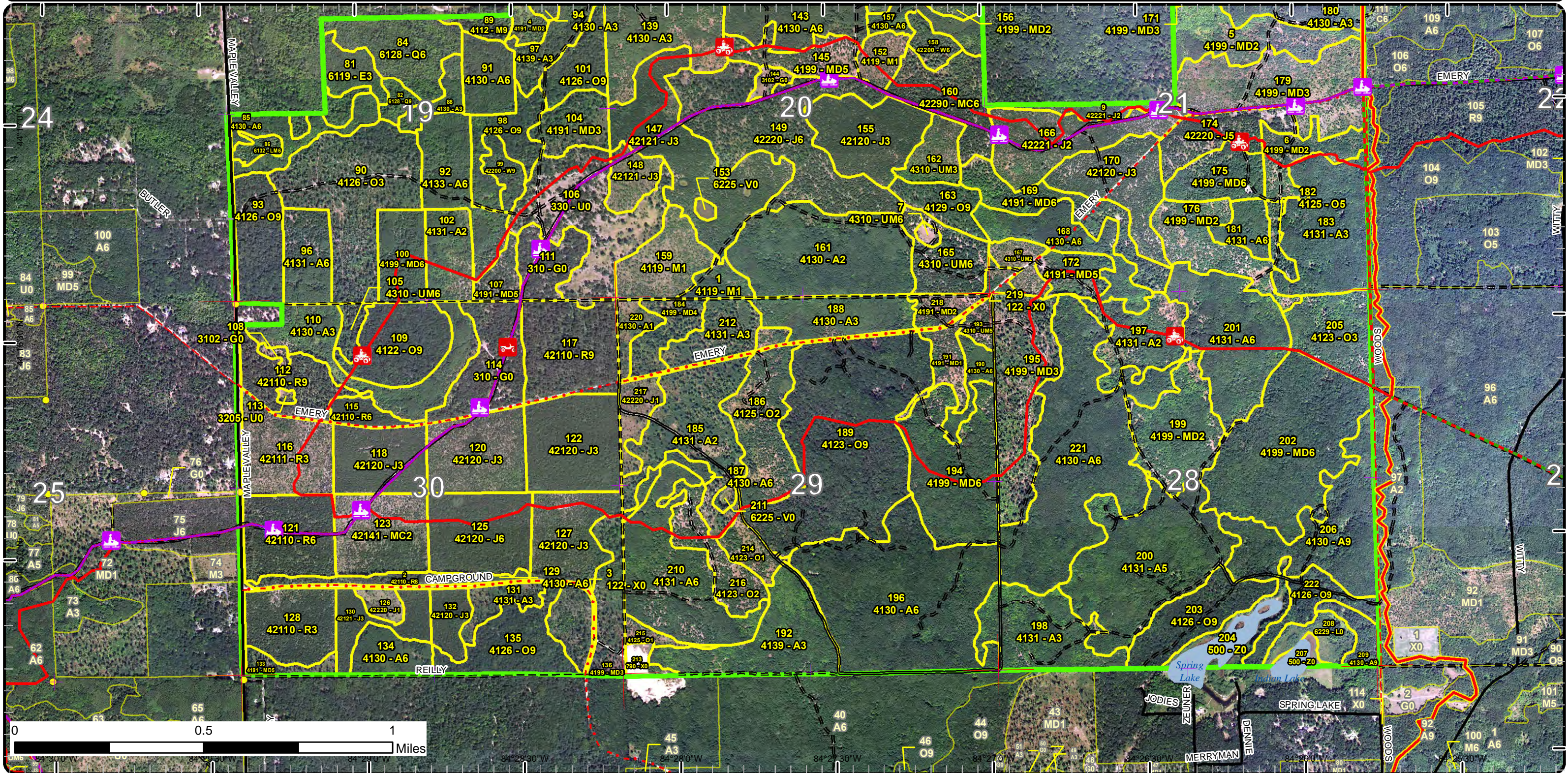


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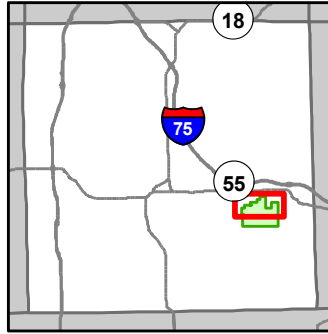
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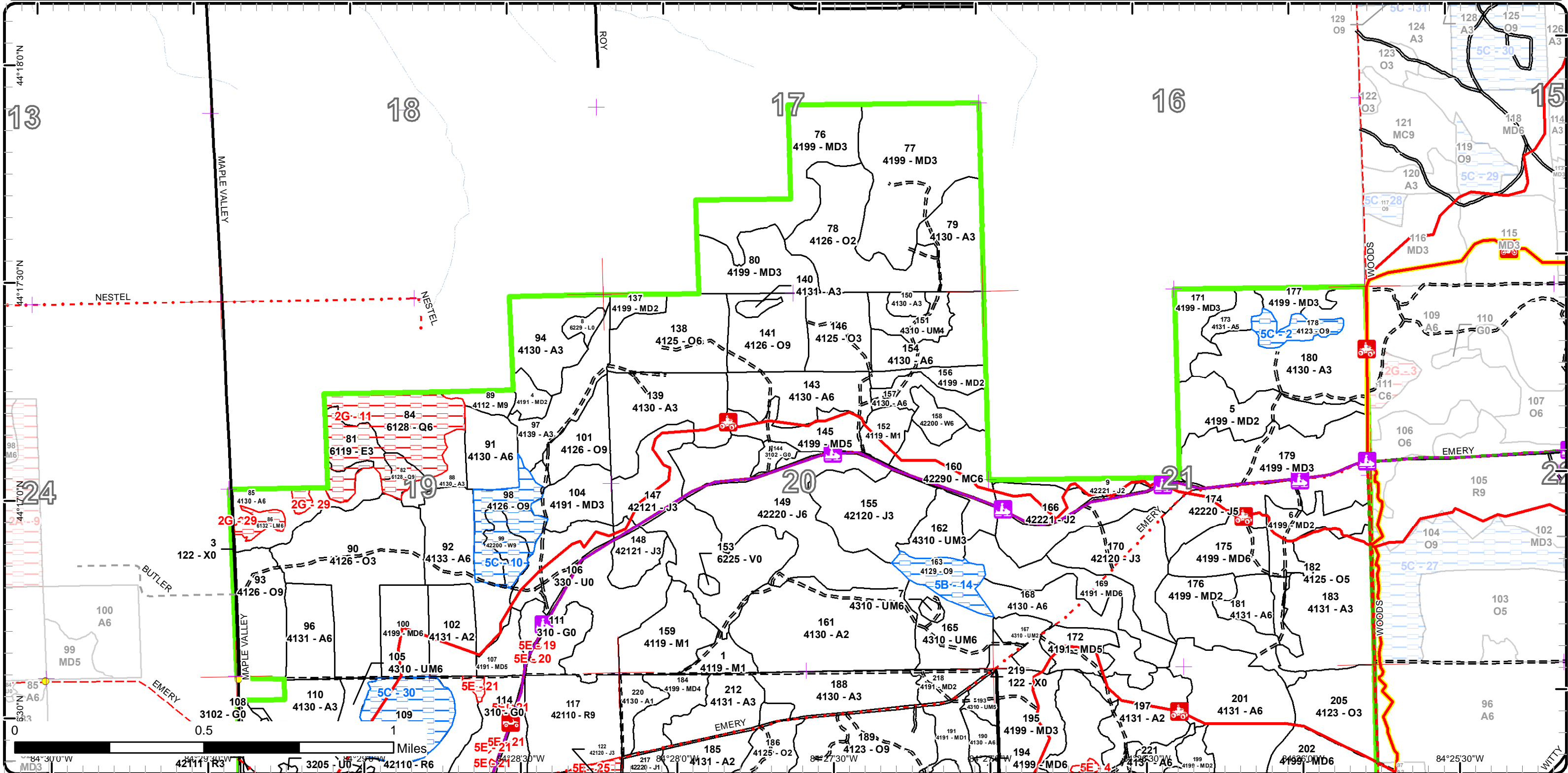
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- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes

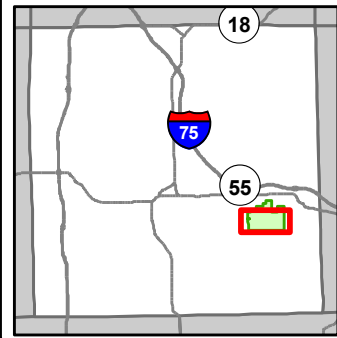
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries



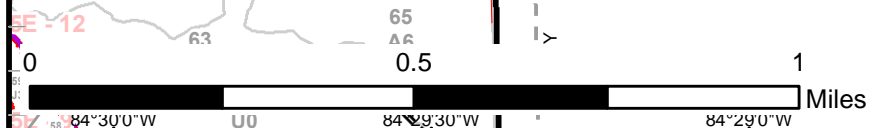
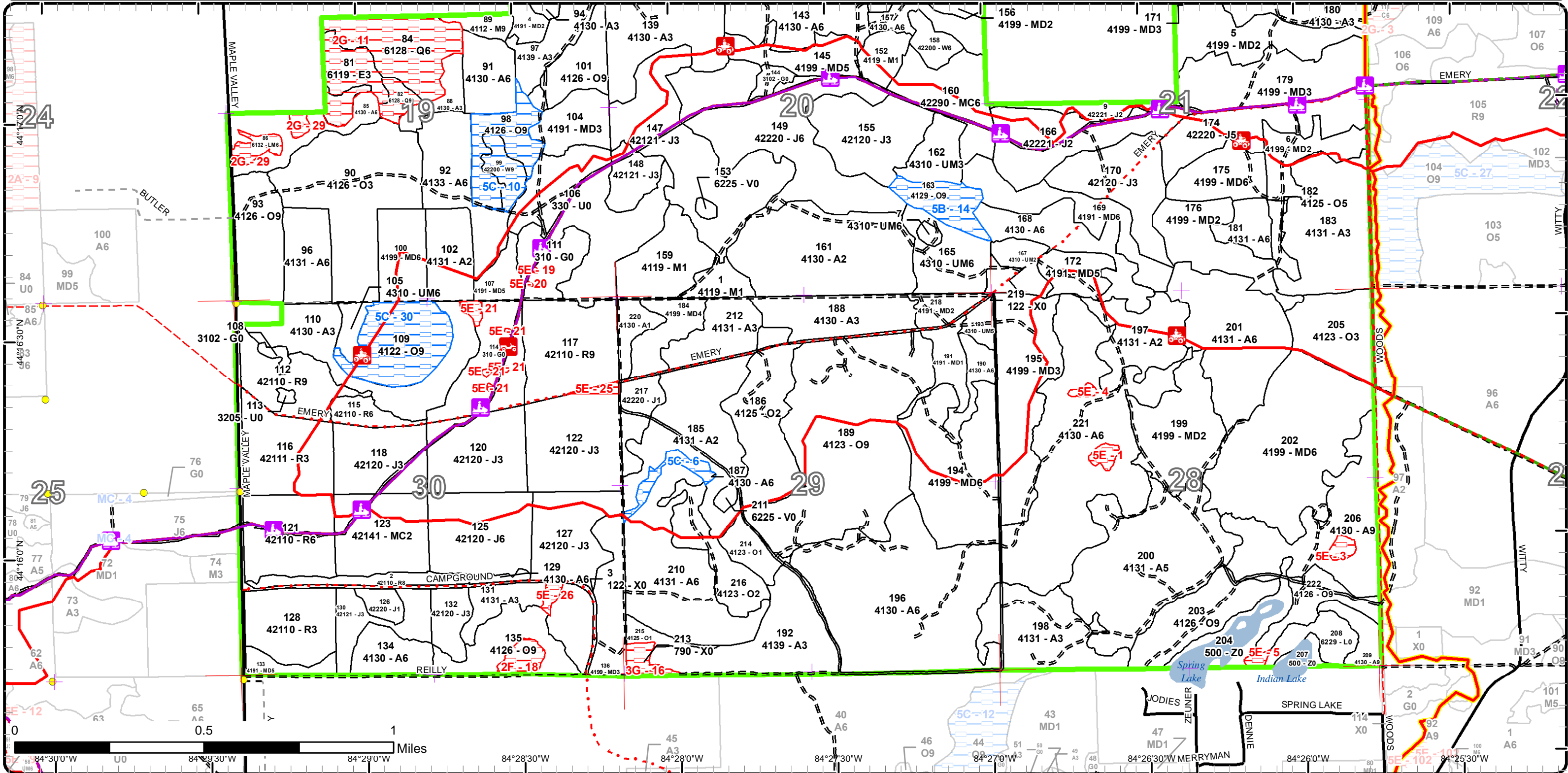


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- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Stand Boundaries





Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	71	269	529	215	60	0	0	0	8	0	0	0	0	0	0	112	1263
Bare/Sparsely Vegetated	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Herbaceous Openland	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Jack Pine	0	0	104	204	118	0	75	0	0	0	0	0	0	0	0	0	0	0	501
Low-Density Trees	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	10	31	0	0	0	0	0	41
Lowland Deciduous	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Lowland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	0	330	162	134	105	0	0	0	0	0	0	0	0	0	0	0	0	731
Natural Mixed Pines	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	29
Northern Hardwood	0	0	43	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	49
Oak	0	0	90	123	41	0	0	0	0	0	297	0	37	0	0	0	0	21	609
Planted Mixed Pines	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Red Pine	0	0	0	62	41	0	0	0	40	34	0	0	0	0	0	0	0	0	177
Upland Mixed Forest	0	0	24	0	29	0	18	0	0	0	0	0	0	0	0	0	0	0	71
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
White Pine	0	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	16
<b>Total</b>	<b>181</b>	<b>0</b>	<b>662</b>	<b>866</b>	<b>900</b>	<b>320</b>	<b>153</b>	<b>29</b>	<b>48</b>	<b>34</b>	<b>311</b>	<b>10</b>	<b>74</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>133</b>	<b>3719</b>





## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2022

Acres of Harvest

Compartment 51  
Total Compartment Acres: 3,715

Commercial Harvest - 571  
Harvests with Site Condition - 29  
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	112	0	0	0	0	0	0	0	0	112
Jack Pine	75	0	0	0	0	0	0	0	0	75
Mixed Upland Deciduous	67	0	0	0	0	0	0	0	0	67
Oak	56	117	0	21	26	23	28	0	0	270
Red Pine	0	0	0	0	0	68	0	0	0	68
White Pine	0	0	0	0	0	8	0	0	0	8
<b>Total</b>	<b>310</b>	<b>117</b>	<b>0</b>	<b>21</b>	<b>26</b>	<b>99</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>600</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	600	0	0	0	57	0	49	0	6	711
Next Step	0	58	29	0	57	0	530	0	6	679
<b>Total</b>	<b>600</b>	<b>58</b>	<b>29</b>	<b>0</b>	<b>113</b>	<b>0</b>	<b>579</b>	<b>0</b>	<b>11</b>	<b>1390</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>7</b>	<b>71051007-NF</b>	1.9	4310 - Pine, Oak Mix	Poletimber Well	38	1-50	NonForestMgt	Mowing	310 - Herbaceous Openland		No
<p><u>Prescription</u> Movable frost pocket or burn to maintain established Wildlife Opening, Nine Mile Field #8.  <u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Mowing  <u>Treatments:</u></p> <p><u>Acceptable</u>  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>98</b>	<b>71051098-Cut</b>	20.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	111	111- 140	Harvest	Seed Tree with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Harvest stand leaving 10-30 BA of white oak. Leave 1-3 white pine per acre also. Create brush piles and drumming logs with appropriate  <u>Specs:</u> specs. Leave the north west part of the stand that has some wet areas of retention.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Oak and mixed hardwoods at fully stocked levels  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u> Age-Class or Site Quality  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>99</b>	<b>71051099-Cut</b>	8.2	42200 - Natural White Pine	Sawtimber Well	75	111- 140	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	No
<p><u>Prescription</u> Thin white pine from below down to 60 BA. Remove high risk, suppressed and poor formed pine first. Remove high risk black oak. Expand  <u>Specs:</u> crowns on healthy white oak by removing crown competition.</p> <p><u>Next Step</u>  <u>Treatments:</u></p> <p><u>Acceptable</u>  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u> Age-Class or Site Quality  <u>Proposed Start Date:</u> 10/1 /2021</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
101	71051101-Cut	16.7	4126 - White, Black, N. Pin Oak	Sawtimber Well	111	141-170	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand and regenerate oak and Aspen. Attempt to protect oak understory. Leave healthy, large crowned white oak. Leave an island for retention. Aspen component should expand throughout stand. Leave brush piles and drumming logs for wildlife purposes. by using appropriate 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, oak and other mixed hardwoods 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 /2021</p>											
106	71051106-Burn	56.5	330 - Low-Density Trees	Nonstocked	0		Burn	Opening	31021 - Cool Season Grass		No
<p><u>Prescription</u> RX burn to maintain pine/oak barrens.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</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 /2021</p>											
141	71051141-Cut	25.4	4126 - White, Black, N. Pin Oak	Sawtimber Well	99	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Clearcut stand and manage for oak. Leave 1-3 healthy, large crowned oaks for mast production. Leave frost pocket/valley for retention.</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> Oak 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 /2021</p>											
144	71051144-NF	3.8	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Mowing	310 - Herbaceous Openland		No
<p><u>Prescription</u> Discuss with FRD to establish as new opening and abandon wildlife opening immediately to the west. Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Nine Mile 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 /2021</p>											





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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**Approved Treatments:**

<b>93</b>	<b>71051093.27_</b> <b>Cut</b>	25.5	4126 - White, Black, N. Pin Oak	Sawtimber Well	92	81-110	Harvest	Shelterwood with Retention	4122 - Oak, Pine	Two-Aged	No
<u>Prescription</u> treatment is a light shelterwood (prep cut) to encourage more oak regeneration prior to a heavier shelterwood, cut all red maple and aspen and mark oak to a target basal area of 70 SF/acre, favor well crowned red and white oak over lesser quality black oak, leave R/W pine for diversity and for visual on F-97 unless they need to be removed for maneuverability within the stand											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Any combination of hardwoods and pine to a fully stocked stand											
<u>Regen:</u>											
<u>Other</u> buffer swamp to the north for retention Old next step comments: regeneration survey to determine success of treatment											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2015											
<b>112</b>	<b>71051110.26_</b> <b>Cut</b>	22.8	42110 - Planted Red Pine	Sawtimber Well	84	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> thin to 110 SF/acre to improve the quality of the stand											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> leave north part with steepest slopes for retention											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2015											
<b>111</b>	<b>71051111-</b> <b>Monitor</b>	17.5	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> third year check											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> red pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											





Standard

Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
114	71051114-Monitor	31.4	310 - Herbaceous Openland	Nonstocked	0		Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	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> red 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>											
117	71051117.25_Cut	35.5	42110 - Planted Red Pine	Sawtimber Well	76	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> thin from below to 110 SF to improve the quality of the stand,</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> leave part of stand south of Emery Road for retention</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>											
2	71051124.24_Cut	9.9	42110 - Planted Red Pine	Sawtimber Medium	83	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> thin parts of the stand that meet silvicultural criteria to 120 SF/acre to improve the quality of the stand</p> <p><u>Specs:</u></p> <p><u>Next Step</u></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 /2015</p>											
135	71051135.23_Cut	22.8	4126 - White, Black, N. Pin Oak	Sawtimber Well	92	111-140	Harvest	Crown Thinning	4124 - Red with White Oak	Even-Aged	No
<p><u>Prescription</u> thin this stand by cutting all red maple and aspen and marking oak to to cut leaving 70 SF/acre of the best quality and best crowned oak, favor good quality white oak over poorer quality red oak and favor red oak over black oak, thin red/white pine with the oak where pine needs to be thinned for equipment access</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> leave north arm along Campground Road for retention, leave out steepest portion of stand on the south</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</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>149</b>	<b>71051149-Cut</b>	75.0	42220 - Natural Jack Pine	Poletimber Well	52	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clearcut stand and manage for natural jack pine regeneration. Leave jack pine tops scattered evenly for seed dispersal. Do not chip.  
Specs: Expect oak and other hardwoods to mix in as well. Use an island for retention and apply cutting specs that protect the snowmobile trail.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Natural jack pine with mixed hardwoods at fully stocked levels.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>184</b>	<b>71051184.17_Cut</b>	14.8	4199 - Other Mixed Upland Deciduous	Poletimber Poor	46	1-50	Harvest	Clearcut	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
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Prescription Final harvest all species to two inches. Leave all white oak. Trench and replant site to red pine.

Specs:

Next Step ; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial

Treatments: Regen(3yr)

Acceptable Fully stocked red pine and mixed deciduous.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2017

<b>189</b>	<b>71051189.16_Cut</b>	116.9	4123 - Red Oak	Sawtimber Well	90	111-140	Harvest	Group Selection	4121 - Oak, Aspen	Even-Aged	No
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Prescription Do an group selection removal first by removing all the aspen and jack pine. Then manage for crop trees of the pole/small log class trees by managing for best tree in place, removing the larger/older oaks. Manage for good quality maple stems where present. Leave an older/poor quality oak when it will be beneficial to wildlife. Target basal area should be 70-90, but will be less where the aspen/pine concentrations are higher.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable oak with a mix of aspen

Regen:

Other Place a recreational trail protection spec. in the contract.

Comment:

Site Condition

Proposed Start Date: 10/1 /2017



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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>203 71051203.14_</b> <b>Cut</b>	28.1	4126 - White, Black, N. Pin Oak	Sawtimber Well	95	81-110	Harvest	Overstory Removal	4126 - White, Black, N. Pin Oak	Even-Aged	No
<u>Prescription</u> Overstory removal by targeting the overmature pin oaks followed by low quality species trees. Managing for white oaks of larger sizes and										
<u>Specs:</u> all oaks of good quality in the pole/small sawlog class. Create some regeneration gaps where oak regeneration already present. Remove all aspen.										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> oak										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2017										
<b>202 71051206.13_</b> <b>Cut</b>	51.9	4199 - Other Mixed Upland Deciduous	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<u>Prescription</u> Final harvest all species to two inches. Leave all white oak. Place a couple retention islands within stand totaling 3 percent. All hauling										
<u>Specs:</u> traffic will need to go out to the south via Campground Road. Place a drumming log spec.										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> aspen with a mixed deciduous component.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2017										
<b>209 71051209.11_</b> <b>Cut</b>	8.0	4130 - Aspen	Sawtimber Well	95		Harvest	Clearcut	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final harvest all species to two inches. Smaller size so no retention. Cut during dormancy to try and help the older aspen regenerate the										
<u>Specs:</u> best it can.										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> fully stocked aspen.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2017										
<b>221 71051221.15_</b> <b>Cut</b>	103.7	4130 - Aspen	Poletimber Well	46		Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<u>Prescription</u> Final harvest all species to two inches but white oak. Leave all white oak. Leave a couple of retention islands within stand totaling 3										
<u>Specs:</u> percent. Place a drumming log spec.										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Aspen with a mix of oak.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2017										





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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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222 71051222.10_ Cut	14.1	4126 - White, Black, N. Pin Oak	Sawtimber Well	95	111- 140	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
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Prescription Final harvest all species to two inches. Mark to leave approximately one large crowned oak, preferably white oak, for mast. Place retention  
Specs: as a buffer strip along the boundaries with stands 21 and 25. Look to do between 5 and 7 percent by area.

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

Acceptable fully stocked red pine plantation with mixed deciduous.  
Regen:

Other Plant to red pine seedlings. Could interplant with oak if wildlife division wants to try it.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2017

**Total Treatment 711**  
**Acreage Proposed:**

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
Doug Bates : Examiner

Compartment: 51  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	2F	2G	3G	5E	
1264	1252	<b>5</b>	6	Aspen		<b>5</b>		0			6
5	0	<b>0</b>	5	Bare/Sparsely Vegetated					5		
3	3	<b>0</b>	0	Bog							
55	52	<b>0</b>	3	Herbaceous Openland							3
500	500	<b>0</b>	0	Jack Pine							
57	57	<b>0</b>	0	Low-Density Trees		<b>0</b>					
40	0	<b>0</b>	40	Lowland Conifers				40			
12	0	<b>0</b>	12	Lowland Deciduous				12			
6	0	<b>0</b>	6	Lowland Mixed Forest				6			
15	15	<b>0</b>	0	Lowland Shrub							0
730	730	<b>0</b>	0	Mixed Upland Deciduous		<b>0</b>					0
29	29	<b>0</b>	0	Natural Mixed Pines							
48	48	<b>0</b>	0	Northern Hardwood				0			
609	527	<b>73</b>	9	Oak	<b>14</b>	<b>59</b>	5	0			3
34	34	<b>0</b>	0	Planted Mixed Pines							
178	176	<b>0</b>	2	Red Pine							2
70	70	<b>0</b>	0	Upland Mixed Forest		<b>0</b>					
1	1	<b>0</b>	0	Upland Shrub							
20	20	<b>0</b>	0	Urban							
24	24	<b>0</b>	0	Water							0
16	8	<b>8</b>	0	White Pine		<b>8</b>					
3,715	3,547	<b>87</b>	82	Total Forested Acres	<b>14</b>	<b>73</b>	5	59	5		13
	95%	<b>2%</b>	2%	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	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 51

Year of Entry: 2022

2	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>Minor Change in Acreage</b>	0				
<b>Comments:</b>							
8	<b>Available</b>	<b>Minor Change in Acreage</b>	0				
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Doug Bates : Examiner

Compartment: 51

Year of Entry: 2022

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	52	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
<b>Comments:</b>							
14	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	3G: Other Influence zones - See comments	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Currently being used by the Roscommon County Road Commission to store gravel.							
18	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> knob with steep sides							
19	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Roscommon Mgt. Unit  
Doug Bates : Examiner

Compartment: 51  
Year of Entry: 2022

21	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
1	4119 - Mixed Northern Hardwoods	Sapling Poor	8.1	18	Immature	N/A	Stand was not visited due to field restrictions in 2020. Planted to red pine < 6". Has not reached canopy yet																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Northern Pin Oak</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>3</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>75</td> <td>Sapling</td> <td>1</td> <td>18</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	10	Sapling	1		Northern Pin Oak	10	Sapling	1		Red Pine	2	Sapling	1		Jack Pine	3	Sapling	1		Black Cherry	75	Sapling	1	18	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>High</td> <td>Variable</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	High	Variable	Seeding				
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2	42110 - Planted Red Pine	Sawtimber Medium	10.0	83	141-170	N/A	Stand was not visited due to field restrictions in 2020. Stand is a buffer left when stand behind it along campgrounds road and F-97 were final harvested in last 20 - 30 years, now ranges from J3 to R9, could leave for another 10 years until these adjacent stands grow more or thin those parts of the stand which meet silvicultural criteria (approx. 75-80% of the stand)																																						
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3	122 - Road/Parking Lot	Nonstocked	16.0	0		No	Maple Valley and Campgrounds Roads.																																						
4	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	5.8	24	Immature	N/A	Mixed hardwoods stand with bushy white pine. Some open areas that didn't regenerate well.																																						
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5	4199 - Other Mixed Upland Deciduous	Sapling Medium	31.2	18	Immature	N/A	Stand was not visited due to field restrictions in 2020. Planted to red pine in 2004, seedlings still to small to show up in canopy.																																						
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6	4199 - Other Mixed Upland Deciduous	Sapling Medium	17.9	18	Immature	N/A	Mix of oak followed by jack pine and scatter small pockets of aspen. Has orv trail in southwest potion.																																						
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<b>7</b>	4310 - Pine, Oak Mix	Poletimber Well	1.9	38	1-50	N/A	Stand was not visited due to field restrictions in 2020.																																																																	
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<b>8</b>	6229 - Mixed lowland shrub	Nonstocked	3.5	0		No	Lowland marsh/tag alder with a perimeter of maple and pine.																																																																	
<b>9</b>	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	7.1	18	Unspecified	N/A	Stand was not visited due to field restrictions in 2020.																																																																	
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<b>76</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	41.8	21	Immature	N/A	Stand was not visited due to field restrictions in 2020. Cut 1999, stand is now a fairly equal mix of aspen and oak regeneration nice A3 clones interspersed with sparsely stocked frost pockets, oak regeneration is mostly from seed but there are lots of stump sprout oak also																																																																	
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<b>77</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	63.8	13	1-50	N/A	Stand was not visited due to field restrictions in 2020. Very good regeneration of oak in most spots but stand has a few smaller, sparsely stocked frost pockets, stand was cut in 2007 and all white oak was left, oak regeneration is fairly equally distributed between white oak and black/red oak, oak regeneration is mostly from seed but there are lots of stump sprout oak also, stand is fully stocked between the oak seedlings/saplings and the white oak overstory																																																																	
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<b>78</b>	4126 - White, Black, N. Pin Oak	Sapling Medium	43.9	21	Immature	N/A	Stand was not visited due to field restrictions in 2020. Stand regenerated in 1999 to oak with some pockets of A3 clones and some larger frost pockets which are heavy to pin cherry, equal mix of stump sprout and seedling origin oak																																																										
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<b>79</b>	4130 - Aspen	Sapling Well	23.6	21	Unspecified	N/A	Stand was not visited due to field restrictions in 2020. Good regeneration of aspen mixed with red maple and oak, interspersed with some smaller frost pockets which are only sparsely stocked, oak regeneration is mostly stumps sprouts but there are oaks from seed also																																																										
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<b>80</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	26.8	13	1-50	N/A	Stand was not visited due to field restrictions in 2020. Good regeneration of oak i most spots with some smaller A3 clones also. cut in 2007 and left all white oak, lots of seedling as well as stump sprout oak																																																										
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<b>81</b>	6119 - Mixed Lowland Deciduous Forest	Sapling Well	11.7	23	Immature	N/A	Previous inventory stated stand regenerated from a blowdown in 1997. Some standing poletimber cedar left from before blowdown. Some scattered cedar sapling regeneration also.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**82** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 9.5 105 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log	12	
Yellow Birch	5	Log	12	
Paper Birch	10	Log	11	
Northern White Cedar	35	Log/Pole	10	105
Hemlock	26	Log/Pole	10	
Paper Birch	2	Log/Pole	10	
White Pine	2	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Red Maple	Low	10 - 20 feet	Sapling

**84** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 30.9 111 81-110 N/A

Primarily a lowland stand with some higher areas dominated by white pine and maple. Pockets of hemlock. A few scattered Aspen and oak on high "bumps".

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	26	Log/Pole	10	59
Balsam Poplar	10	Pole/Log	8	59
Balsam Fir	5	Pole	6	
Northern White Cedar	30	Pole	6	111
White Pine	10	Log/Pole	10	
Hemlock	15	Log/Pole	12	
Paper Birch	2	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Pine	Low	Variable	Seeding
Tag Alder	Medium	Variable	Tall Shrub

**85** 4130 - Aspen Poletimber Well 18.5 32 1-50 N/A

Just entering poletimber size class throughout.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling/Pole	4	
Bigtooth Aspen	80	Pole/Sapling	5	32
Black/Red (Hybrid) Oak	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling

**86** 6132 - Mixed Lowland Forest with Cedar Poletimber Well 6.3 111 111-140 N/A

Mixed conifer swamp with red maple. A few white pines growing along the edge. West part of stand has small water hole with old beaver activity.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	48	Log/Pole	10	111
Northern White Cedar	30	Pole/Log	8	111
White Pine	2	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	Variable	Tall Shrub
Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>88</b>	4130 - Aspen	Sapling Well	8.6	24	Immature	N/A	Upland areas dominated by bigtooth Aspen. Lowland areas dominated by paper birch and red maple. A few yellow birch. Pocket of white pine poles on north end.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	2	
Bigtooth Aspen	60	Sapling	2	24
Black/Red (Hybrid) Oak	5	Sapling	2	
White Pine	10	Sapling/Pole	4	
Paper Birch	10	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	Low	< 5 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling

<b>89</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.5	92	81-110	N/A	Hardwood stand thinned in 2007 dominated by red maple.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	2	Log	12	92
Red Maple	83	Log/Pole	12	92
Beech	5	Log	12	
Red Oak	5	Log	14	
Basswood	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Seeding
White Ash	Medium	Variable	Seeding
Beech	Low	Variable	Sapling
Ironwood	Low	Variable	Tall Shrub
Musclewood/Hornbeam	Low	Variable	Sapling

<b>90</b>	4126 - White, Black, N. Pin Oak	Sapling Well	67.5	12	Immature	N/A	Shelterwood/Seed Tree cut in 2008 leaving green painted black oak, all red and white pine poles, and all white oak sawlogs. Not enough of a basal area of merchantable sized trees to call it 2 aged. The oak regeneration is doing very well. The majority of the pine is around 40 years of age and the oak residual left from the past treatment is 80+ years old. Will leave the oak to turn to snags and treat the pine in the future, will hold. The damage will be to much to the oak regeneration if tried to remove the oak/pine now.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	8	Sapling	1	12
White Oak	7	Log	13	91
White Oak	15	Sapling	1	12
Bigtooth Aspen	10	Sapling	2	12
Black/Red (Hybrid) Oak	3	Log	14	91
Black/Red (Hybrid) Oak	40	Sapling	1	12
White Pine	13	Log/Pole	10	
Red Pine	4	Pole/Log	9	37

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	Variable	Seeding
Black/Red (Hybrid) Oak	Low	Variable	Seeding

<b>91</b>	4130 - Aspen	Poletimber Well	17.5	33	51-80	N/A	Stand of poletimber Aspen that is see seasonally wet. A few mature hemlock scattered about.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling/Pole	4	33
Bigtooth Aspen	88	Pole	5	33
Black/Red (Hybrid) Oak	2	Sapling/Pole	4	33
White Pine	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	Trace	5 - 10 feet	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
<b>92</b>	4133 - Aspen, Mixed Pine	Poletimber Well	30.7	33	81-110	N/A	Really good aspen pole stand mixed with white pine poles. On the east side is a pocket of dense pole sized white pines with red maple saplings slightly over 2 acres. The ground is lower/wetter than the surroundings but could be treated in a cold winter.																																																			
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<b>93</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	26.7	92	81-110	N/A	decent quality black oak with white oak and scattered BTA, R/W pine, and red maple, spots are heavy to RP saps/poles, oak is mostly small SL size and other hardwoods are P-L size, some firewood cutting occurring with some new trails appearing as a result																																																			
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<b>94</b>	4130 - Aspen	Sapling Well	27.4	32	51-80	N/A	A few scattered hemlock along with a pocket on sw side.																																																			
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<b>96</b>	4131 - Aspen, Oak	Poletimber Well	20.3	33	51-80	N/A	The aspen is very nice where it came in. The pockets of no aspen have slowly filled in with oak which is sapling size now.																																																			
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<b>97</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	21.3	24	Immature	N/A	Areas with good amounts of paper birch especially along the trail road and on west side.																																															
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<b>98</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	20.6	111	111-140	N/A	Stand dominated by healthy, good quality white oak. Some lower quality black oak, white pine and a few Aspen mixed in. Aspen is found primarily on the west side. More white pine component on the east side.																																															
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<b>99</b>	42200 - Natural White Pine	Sawtimber Well	8.2	75	111-140	N/A	Natural white pine stand with good form and quality. Some oak and red pine mixed in. Most red pine is on southern end of stand. Stand has had some storm/wind damage. Heavy slash load in some areas. A few scattered Aspen present.																																															
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<b>100</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	20.0	33	51-80	N/A	Not as good of quality aspen stand as the one to the west cut at the same time. Higher percentage of stump sprouted oaks in this stand.																																															
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<b>101</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	16.7	111	141-170	N/A	Stand of older, high risk oak and Aspen mixed with some white pine. Scattered healthy white oak. Good advanced white oak understory.																																															
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<b>102</b>	4131 - Aspen, Oak	Sapling Medium	19.2	23	Immature	N/A	Aspen concentrated on west and north sides. The east side is more open and sparse with more oak, red maple, and some scattered jack pine poles/saplings.																																																	
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<b>104</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	16.9	13	1-50	N/A																																																		
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<b>105</b>	4310 - Pine, Oak Mix	Poletimber Well	5.7	55	51-80	N/A	Cut back in 2008 leaving marked black oaks, all the red and white pine poles, red maple poles, and log sized white oaks. The oak is coming in understory real well. Too much overstory left to code it as a immature stand. Coding as the red pine type.																																																	
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<b>106</b>	330 - Low-Density Trees	Nonstocked	56.5	0		No	Merged with old stands 27 and 35 in 71125 and 17 in 71126, north end and an island in the middle was cut Summer 2017- marked oak and pine to leave, periodic burns to maintain as oak-pine barrens complex. Burnt in the Spring 2018.																																																	





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107	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	8.7	33	1-50	N/A	Fairly sparse but still forested stand is in somewhat of a frost pocket and consists of jack pine poles with scattered hardwood saplings.																																																						
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108	3102 - Grass	Nonstocked	2.1		Unspecified	No	Stand was not visited due to field restrictions in 2020.																																																						
109	4122 - Oak, Pine	Sawtimber Well	31.7	91	111-140	N/A	Most of the stand is level too slightly rolling with some steeper slopes on the east and south edges. Nothing that would impede treatment. The stand consists of a mature oak over story that is doing well health wise. The mid-canopy consists of white and red pine with a higher component of black oaks in the pole and small log sizes. Could do a thinning to remove the mature oaks but they are the larger canopied mast producers while the younger oaks are small topped lower quality stuff. Areas of heavy white pine understory with the oaks also. Removal would cause alot of damage to this. Believe should leave alone for now and keep the large oaks for their mast and let the mid and sub canopies take over and treat them at a later time. This compartment is not heavy to oak cover types anyways.																																																						
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110	4130 - Aspen	Sapling Well	38.3	23	Immature	N/A	Nice aspen in most spots but a few areas are sparser with sparser scattered oak, maple, and jack pine. The maple is high in the aspen understory.																																																						
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111	310 - Herbaceous Openland	Nonstocked	17.5	0	Unspecified	No	Cut Summer 2017, trench and re-plant to jack pine. Mistakenly planted to red pine in 2019. First year check found the red pine doing well with little competition.																																																						
112	42110 - Planted Red Pine	Sawtimber Well	24.0	84	141-170	N/A	Red pine stand which was thinned in 1999 by cutting everything but red and white pine and some scattered oak, stand mostly red pine poles and sawlogs with some scattered oak SL's, moderate stocking of oak in the understory, east end is less stocked than the west end,																																																						
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113	3205 - Mixed Upland Shrub	Nonstocked	1.0			No	old landing area?																																																						



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114	310 - Herbaceous Openland	Nonstocked	31.5	0		No	Final harvested Summer 2017, left scattered oak/pine for mast/visual/diversity, retention islands left along snowmobile trail and in NW corner. Mistakenly planted to red pine in 2019 so a Chapter 7 was submitted and approved. First year check found the red pine doing well with little competition. Well over half the residual oaks left post-harvest have blown down.																											
115	42110 - Planted Red Pine	Poletimber Well	7.8	30	1-50	N/A	red pine planted in 1990, some volunteer jack pine and oak also. The stand has just some into pole size. About half is merchantable size and the other will be in less than five years.																											
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116	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	33.5	21	Immature	N/A	Red pine planted in 1999. Some natural jack pine mixed in along with cherry and oak.																											
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117	42110 - Planted Red Pine	Sawtimber Well	40.4	76	141-170	N/A	WW2 era red pine plantation, thinned in 1999 by removing everything except red and white pine and scattered oak, mostly red pine logs with some poles, low to moderate stocking of oak in the understory																											
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118	42120 - Planted Jack Pine	Sapling Well	28.5	28	Immature	N/A	2-3" Jack pine planted in 1992. Scattered oak and cherry saps also.																											
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<b>121</b>	42110 - Planted Red Pine	Poletimber Well	33.6	30	Immature	N/A	Red pine planted in 1990 with some natural oak and jack pine scattered within stand. Stand is just entering poletimber size.																																				
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<b>122</b>	42120 - Planted Jack Pine	Sapling Well	40.7	30	Immature	N/A	cut 1987, planted to jack pine in 1990. Some stems just entering poletimber size.																																				
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<b>123</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Medium	33.6	21	Immature	N/A	red pine planted in 1999 with scattered jack pine and oak coming in naturally. Areas where red pine is not fully stocked.																																				
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<b>126</b>	42220 - Natural Jack Pine	Sapling Poor	5.4	11	Immature	N/A	Harvested in 2010.																																				
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Black/Red (Hybrid) Oak	2	Log	12																																								
Pin Cherry	5	Sapling	1																																								
<b>127</b>	42120 - Planted Jack Pine	Sapling Well	30.0	19	Immature	N/A	cut 1998 and seeded to jack pine that year, supplemental planted to jack pine in 2001 and again in 2002.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>128</b>	42110 - Planted Red Pine	Sapling Well	28.6	22	Immature	N/A	planted to red pine in 1998, lots of natural jack pine coming in also																																													
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<b>129</b>	4130 - Aspen	Poletimber Well	2.2	33	Immature	N/A	aspen regenerated in 1987 with scattered oak SL's and conifer saplings in understory																																													
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<b>130</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	16.9	30	1-50	N/A	1990 plantation. Some stems entering poletimber size class.																																													
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<b>131</b>	4131 - Aspen, Oak	Sapling Well	10.4	10	Immature	N/A	Aspen sapling stand with scattered oak sawtimber. More oak on east side. Pocket of red pine on se side. Some jack pine regeneration on far new corner.																																													
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<b>132</b>	42120 - Planted Jack Pine	Sapling Well	10.8	22	Immature	N/A	cut in 1996, planted to jack pine in 1998																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**133** 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 6.6 48 1-50 N/A Stand was not visited due to field restrictions in 2020. Cut early 2010, left green painted oak all R/W pine poles and saplings, and white oak sawlogs, east 1/3-1/2 is fairly open (non-forested with scattered trees) and the west 1/2-2/3 is R4/5 with scattered oak SL's, stand is now 2 aged going to all aged as R/W pine is younger than the oaks but older than the hardwood saplings

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	10
White Oak	5	Sapling	1	10
White Oak	15	Log	13	90
Bigtooth Aspen	20	Sapling	1	10
Black/Red (Hybrid) Oak	5	Sapling	1	10
Black/Red (Hybrid) Oak	5	Log	15	90
White Pine	5	Pole	5	

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

**134** 4130 - Aspen Poletimber Well 14.7 33 1-50 N/A Stand just entering poletimber size. Areas of thick witch hazel.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Sapling/Pole	4	
Bigtooth Aspen	92	Pole/Sapling	5	33
Black/Red (Hybrid) Oak	4	Sapling/Pole	4	
White Pine	2	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Pin Cherry	Low	< 5 feet	Tall Shrub

**135** 4126 - White, Black, N. Pin Oak Sawtimber Well 30.0 92 111-140 N/A Stand under harvest contract. Update after harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log/Pole	10	
Black/Red (Hybrid) Oak	55	Log/XLog	14	92
White Oak	20	Log/XLog	14	92
Bigtooth Aspen	10	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Witch Hazel	Medium	Variable	Tall Shrub
Serviceberry (Juneberry)	Medium	Variable	Tall Shrub

**136** 4199 - Other Mixed Upland Deciduous Sapling Well 33.0 10 1-50 N/A Shelterwood/seed tree cut late 2009/early 2010. Scattered oak and pine sawtimber with Aspen and oak saplings beneath.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	10
White Oak	11	Log	12	96
White Oak	25	Sapling	1	10
Bigtooth Aspen	35	Sapling	1	10
Black/Red (Hybrid) Oak	2	Log	12	96
White Pine	5	Log/Pole	10	
Jack Pine	5	Sapling	1	10
Pin Cherry	2	Sapling	1	10
Black/Red (Hybrid) Oak	5	Sapling	1	
Red Pine	5	Pole/Log	8	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>137</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	5.9	38	1-50	N/A	Stand was not visited due to field restrictions in 2020. Gets wet in NW corner.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	53	Sapling/Pole	4	38
Paper Birch	2	Sapling	2	
Quaking Aspen	10	Sapling	3	
Northern Pin Oak	25	Sapling	4	
Balsam Fir	5	Pole	6	
Black Cherry	5	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Witch Hazel	Medium	5 - 10 feet	Tall Shrub

<b>138</b>	4125 - Black, N. Pin Oak	Poletimber Well	35.6	36	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Sapling	3	
White Oak	10	Pole/Sapling	5	
Bigtooth Aspen	15	Pole/Sapling	5	
Black/Red (Hybrid) Oak	70	Pole/Sapling	5	36
White Pine	2	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	Low	5 - 10 feet	Sapling

<b>139</b>	4130 - Aspen	Sapling Well	38.8	18	Immature	N/A	Lower site index on south part of stand. More cherry, oak and jack pine found there.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Sapling	1	
Bigtooth Aspen	72	Sapling	1	18
Black/Red (Hybrid) Oak	15	Sapling	1	
Pin Cherry	8	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling

<b>140</b>	4131 - Aspen, Oak	Sapling Well	2.4	16	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	60	Sapling	2	16
Black/Red (Hybrid) Oak	25	Sapling	1	
Red Maple	15	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	5 - 10 feet	Tall Shrub

<b>141</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	25.4	99	81-110	N/A	Stand of almost pure oak. Some white oak in understory. Some red maple saplings on south end. An area of blowdown in the north east corner.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	20	Log/Pole	12	
Black/Red (Hybrid) Oak	80	Log/Pole	13	99

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
White Oak	Low	5 - 10 feet	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub
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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**143** 4130 - Aspen Poletimber Well 28.6 38 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling/Pole	4		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	79	Pole/Sapling	5	38	White Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	10	Pole/Sapling	5					
White Oak	2	Sapling/Pole	4					
Red Pine	2	Log	10					
White Pine	2	Pole/Log	8					

**144** 3102 - Grass Nonstocked 3.8 Unspecified Managed Opening Maintained opening by Wildlife Division.

**145** 4199 - Other Mixed Upland Deciduous Poletimber Medium 17.6 36 1-50 N/A More open to the east with more cherry present.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Pole	5	
Black/Red (Hybrid) Oak	48	Pole/Sapling	5	36
Red Pine	3	Log	10	
Jack Pine	4	Pole	5	
Black Cherry	40	Pole/Sapling	5	

**146** 4125 - Black, N. Pin Oak Sapling Well 22.2 18 Immature N/A Stand of primarily oak. Has clones of bigtooth and scattered pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	2		Witch Hazel	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	8	Sapling	2					
Black/Red (Hybrid) Oak	71	Sapling	1	18				
Red Pine	3	Sapling	2					
Jack Pine	3	Sapling	2					
White Oak	10	Sapling	2					

**147** 42121 - Planted Jack Pine, Mixed Deciduous Sapling Well 62.1 27 Immature N/A Appears to be a red pine plantation that was completely overrun with natural jack pine seeding.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	15	Sapling/Pole	3	
Red Pine	15	Sapling/Pole	3	
Jack Pine	63	Sapling	4	27
Pin Cherry	5	Sapling	2	
Quaking Aspen	2	Sapling/Pole	3	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
148	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	11.9	16	Immature	N/A																																																							
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Pin Cherry	5	Sapling	1	17																																																									
149	42220 - Natural Jack Pine	Poletimber Well	75.0	52	51-80	N/A	Stand appears to be naturally regenerated from a wildfire. Some older sawtimber oak shows evidence in cat faces. Mostly jack pine and oak pole timber with some scattered older oak and a few red pine. Some open, less dense areas. Boersen-There is a possible managed opening opportunity in this stand just south of the opening north of the road. Discuss with FRD.																																																						
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150	4130 - Aspen	Sapling Well	4.2	38	Unspecified	N/A	Stand was not visited due to field restrictions in 2020. Small stand well stocked, witch hazel understory dense in some places.																																																						
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151	4310 - Pine, Oak Mix	Poletimber Poor	11.9	51	1-50	N/A	Stand was not visited due to field restrictions in 2020. Stand is open, savannah like, possible barrens. Trees are all open grown with large canopies and low diameter to height ratio. Bigtooth occurs on E. edge near stand 17.																																																						
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152	4119 - Mixed Northern Hardwoods	Sapling Poor	9.6	18	Immature	N/A	Stand was not visited due to field restrictions in 2020. Stand was planted to jack pine seedlings are < 6" have not reached canopy.																																																						
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153	6225 - Bog	Nonstocked	1.6		Unspecified	No	Stand was not visited due to field restrictions in 2020.																																																						



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<b>154</b>	4130 - Aspen	Poletimber Well	22.6	38	1-50	N/A	Stand was not visited due to field restrictions in 2020. Aspen stand with barren pocket. Remnant burned wp stumps.																																															
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<b>155</b>	42120 - Planted Jack Pine	Sapling Well	34.8	28	Immature	N/A	Jack pine plantation.																																															
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<b>156</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	8.8	17	Immature	N/A	Stand was not visited due to field restrictions in 2020. Stand was clearcut, Pin oak is sprouting from stumps and growing individual stems. Red maple from stump sprouts. Canopy not fully closed, stand doing well.																																															
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<b>157</b>	4130 - Aspen	Poletimber Well	12.8	28	1-50	N/A																																																
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<b>158</b>	42200 - Natural White Pine	Poletimber Well	7.6	38	1-50	N/A	Stand was not visited due to field restrictions in 2020. Stand is wet there is a small water seep. Nice white pine and red, unique micro habitat. Lot of blowdown oak. Super canopy white oak, red oak, white pine and red maple. Trace red pine.																																															
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<b>159</b>	4119 - Mixed Northern Hardwoods	Sapling Poor	24.9	18	Immature	N/A	Stand was not visited due to field restrictions in 2020. Planted to red pine < 6". Has not reached canopy yet																																																										
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<b>160</b>	42290 - Natural Mixed Pine	Poletimber Well	28.6	60	51-80	N/A	Natural Jack pine stand mixed with oak. Some scattered white pine especially on north end. Scattered poor quality Aspen.																																																										
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<b>161</b>	4130 - Aspen	Sapling Medium	65.1	38	Unspecified	N/A	Stand was not visited due to field restrictions in 2020. Pole sized stand.																																																										
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<b>162</b>	4310 - Pine, Oak Mix	Sapling Well	13.6	18	Immature	N/A																																																											
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<b>163</b>	4129 - Mixed Oak	Sawtimber Well	13.9	95	81-110	N/A	Stand was not visited due to field restrictions in 2020. Nice mature oak stand with decent logs. Some areas have thick red maple understory. Trace red pine. White pine moving in on south edge. Some oak regen. along edges. Many oak are healthy with full crowns. Stand is converting to maple. Stand treated in the fall 2015 under sale # 71-017-12-01																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>165</b>	4310 - Pine, Oak Mix	Poletimber Well	22.0	38	1-50	N/A	Stand was not visited due to field restrictions in 2020.																																														
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<b>166</b>	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	37.5	18	Unspecified	N/A	Stand was not visited due to field restrictions in 2020.																																														
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<b>167</b>	4310 - Pine, Oak Mix	Sapling Medium	9.6	18	Immature	N/A	Planted to jack pine with some pole to sawlog size natural jack pine left in overstory. Not a very good plantation, several large open areas.																																														
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<b>168</b>	4130 - Aspen	Poletimber Well	27.9	38	81-110	N/A	The stand has several patches of pin oak and cherry. Red maple is mostly mixed with the quaking aspen where it is co-dominant. Overall nice stand																																														
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<b>169</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	27.0	38	51-80	N/A	A fringe stand of low quality ground that resulted in pockets of aspen with the remainder being scrubby oak and jack pine. Less maple understory and more oak though.																																														
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<b>170</b>	42120 - Planted Jack Pine	Sapling Well	33.2	28	Immature	N/A	Pin oak and cherry are dense in some areas. Jack pine was planted in 1993.																																																															
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<b>171</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	14.5	38	1-50	N/A	Stand was not visited due to field restrictions in 2020. Stand was cut in 1982. Natural white oak regen and trace white pine in understory. Witch hazel in pockets.																																																															
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<b>172</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	12.6	38	1-50	N/A	A low quality stand with a mix of species and several large areas void of regeneration. The diameters are small for age. A pocket of jack pine left along 2-track that bisects stand. A portion of orv trail in stand also.																																																															
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<b>173</b>	4131 - Aspen, Oak	Poletimber Medium	7.1	38	Unspecified	N/A	Stand was not visited due to field restrictions in 2020. Very mixed stand, canopy density is variable. Oak from stump sprouts, trace white pine.																																																															
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<b>174</b>	42220 - Natural Jack Pine	Poletimber Medium	22.7	38	51-80	N/A	Natural jack pine stand that has many areas scattered throughout void of any regeneration. Portion of orv trail runs through along with old narrow gauge rail bed. Couple dozen log sized red pine in pocket on southeast side.																																																															
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<b>175</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	19.6	38	81-110	N/A	Pockets of bigtooth aspen and quaking aspen on a ridge with oak as predominate amongst clones. Scattered cherry throughout with trace jack pine and white pine.																																																				
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<b>176</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	28.0	18	Immature	N/A	Stand started out slow but has started to pick up with the oak majority not being stump sprouts so it is a smaller diameter.																																																				
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<b>177</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	8.3	38	1-50	N/A	Stand was not visited due to field restrictions in 2020. Oak is regenerating from stump sprouts. Trace white ash.																																																				
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<b>178</b>	4123 - Red Oak	Sawtimber Well	8.7	96	81-110	N/A	Stand was not visited due to field restrictions in 2020. Very nice red oak stand, nice logs. Heavy maple understory. Oak canopy looks very healthy will live for a long time.																																																				
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<b>179</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	53.5	18	Immature	N/A	Planted with red pine 2004.																																																				
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<b>180</b>	4130 - Aspen	Sapling Well	51.4	38	Unspecified	N/A	Stand was not visited due to field restrictions in 2020. Very dense stand excellent aspen regen. oak is from stump sprouts.																																										
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<b>181</b>	4131 - Aspen, Oak	Poletimber Well	10.5	38	51-80	N/A	Nice aspen stand on a knoll. The side slopes are where the good aspen is located. The top of the knoll is less dense and more oak. The diameter is on smaller side for age but good quality.																																										
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<b>182</b>	4125 - Black, N. Pin Oak	Poletimber Medium	5.1	38	1-50	N/A	Scattered oak, aspen and jack pine. Bottom edge of slope, not as good of soils. very little understory regeneration.																																										
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<b>183</b>	4131 - Aspen, Oak	Sapling Well	49.8	38	Unspecified	N/A	Stand was not visited due to field restrictions in 2020. Cut in 1982 pole sized oak stump sprouts, red maple starting to reach canopy.																																										
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<b>184</b>	4199 - Other Mixed Upland Deciduous	Poletimber Poor	14.7	46	1-50	N/A	Poor quality sparse stand. The oak is all deformed and there is little to no regeneration. Recommend final harvesting and replanting the stand to red pine.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**185**      4131 - Aspen, Oak      Sapling Medium      49.3      12      Immature      N/A      Approximately 10+ basal area of saw class left residual. The regeneration is not as thick as the stand north of the road. Leave the large overstory.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Sapling	1	
Bigtooth Aspen	40	Sapling	1	12
Northern Pin Oak	37	Sapling	1	12
Red Maple	11	Sapling	1	
White Pine	1	Log	14	
Red Pine	1	Log	14	
White Oak	1	Log	12	
Northern Pin Oak	2	Log	13	
Jack Pine	2	Sapling	1	

**186**      4125 - Black, N. Pin Oak      Sapling Medium      38.4      22      Immature      N/A      Far stocked stand with the major component being stump sprouted oaks. The and south lines have the dense aspen clones.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Sapling	3	22	Northern Pin Oak	Low	< 5 feet	Sapling
Bigtooth Aspen	29	Sapling/Pole	4	22				
Northern Pin Oak	60	Sapling/Pole	4	22				
Pin Cherry	6	Sapling	2	22				
Red Pine	1	Sapling	3					
Jack Pine	1	Sapling	2					
White Oak	2	Sapling	3					

**187**      4130 - Aspen      Poletimber Well      5.3      50      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	8	50	Red Maple	Low	Variable	Sapling
White Oak	5	Log/Pole	10	50	Northern Pin Oak	Low	Variable	Sapling
Bigtooth Aspen	80	Pole/Log	9	50				
Northern Pin Oak	10	Log/Pole	12	50				

**188**      4130 - Aspen      Sapling Well      27.2      22      Immature      N/A      Nice aspen stand with heavier maple understory. There are some larger stump sprouted oaks within.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	19	Sapling	2	22	Northern Pin Oak	Low	< 5 feet	Sapling
Northern Pin Oak	13	Sapling	3	22	Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	67	Sapling	3	22				
White Oak	1	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>189</b>	4123 - Red Oak	Sawtimber Well	116.5	90	111-140	N/A	Fairly open stand as far as understory. The overstory has mature+ aspen and about half the oaks. There is a good percentage of small saw class and pole oaks which should manage for. Remove all the aspen which are mainly small 1/2 acre or less in size clones. remove the jack pine and then manage for the best tree in place, siding towards crop trees for residual. Even manage for good maple stems also. target basal area of 70-90, which will be less in areas of higher aspen/jack pine concentrations.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern Pin Oak		24	Log/Pole	12	90	Red Maple		Medium	Variable	Sapling
White Oak		7	Log/Pole	10	90	Witch Hazel		Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		11	Log	12	90	Northern Pin Oak		Low	5 - 10 feet	Sapling
Red Oak		46	Log/Pole	12	90					
Red Maple		11	Pole	8						
Jack Pine		1	Pole/Log	9						
<b>190</b>	4130 - Aspen	Poletimber Well	9.1	23	Immature	N/A	Good aspen regeneration			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		80	Pole/Sapling	5	23	Red Maple		High	Variable	Sapling
Northern Pin Oak		13	Pole/Sapling	5		Northern Pin Oak		Low	Variable	Sapling
Red Maple		7	Pole/Sapling	5		Witch Hazel		Low	5 - 10 feet	Tall Shrub
<b>191</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	11.0	22	Immature	N/A	Not the best regenerating stand. Think it is to far along to try and interplant with red pine. Might have been better last entry to try it. Hopefully the stump sprouting oaks don't turn into bushes.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		13	Sapling	2	22	Northern Pin Oak		Medium	< 5 feet	Sapling
Northern Pin Oak		40	Sapling	2	22					
Jack Pine		28	Sapling	3	22					
Pin Cherry		4	Sapling	2	22					
Bigtooth Aspen		10	Sapling	2						
Red Pine		3	Pole	6						
<b>192</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	42.3	22	Immature	N/A	Thick aspen and red maple stand, some oak stump sprouts.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		35	Sapling/Pole	4	22	Red Maple		Medium	5 - 10 feet	Sapling
Northern Pin Oak		13	Sapling	3	22					
Bigtooth Aspen		50	Sapling/Pole	4	22					
White Oak		2	Sapling	3						
<b>193</b>	4310 - Pine, Oak Mix	Poletimber Medium	5.2	35	51-80	N/A	Younger stand where the red pine appears to be in rows. The jack pine are the open grown limby puff balls.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern Pin Oak		40	Sapling/Pole	4	35	Jack Pine		Low	< 5 feet	Sapling
Red Pine		13	Pole/Sapling	6	35	Northern Pin Oak		Low	< 5 feet	Sapling
Jack Pine		40	Pole/Sapling	6	35	Witch Hazel		Low	5 - 10 feet	Tall Shrub
Pin Cherry		2	Sapling	2						
White Oak		1	Sapling	3						
Red Maple		4	Sapling	3						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>194</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	54.9	23	81-110	N/A	Instead of a solid block of aspen, this is several small clones intermixed with a heavy oak component. The maple is in with the aspen rather than oak.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	19	Sapling/Pole	4	23
Red Oak	41	Pole/Sapling	5	23
Bigtooth Aspen	34	Pole/Sapling	5	23
White Oak	3	Sapling/Pole	4	23
Jack Pine	1	Pole	5	
Red Pine	2	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Oak	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling

<b>195</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	49.1	12	Immature	N/A	harvest done in 2009 with 20-30 basal area of oak overstory left with some scattered pine. The oak is coming back moderately, mostly stump sprouting. There is a heavy maple and aspen component in areas. The largest aspen clones is in the middle of the stand. Some terrain to the stand. Will fill in overtime. Leave the overstory for mast and seeding.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	35	Sapling	1	12
Bigtooth Aspen	27	Sapling	1	12
Red Pine	3	Sapling	1	
White Oak	3	Sapling	1	
Pin Cherry	2	Pole	5	
Red Maple	15	Sapling	1	
Red Oak	11	Log	14	
White Oak	3	Log	14	
Red Pine	1	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Jack Pine	Low	< 5 feet	Seeding
Red Oak	Low	< 5 feet	Sapling

<b>196</b>	4130 - Aspen	Poletimber Well	107.8	46		N/A	Large stand of primarily big tooth aspen mixed with red oak stump sprouts. This stand was created by D.R.I.P. cuts.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	11	Log/Pole	10	46
Bigtooth Aspen	70	Pole/Log	9	46
Red Maple	18	Pole	8	
White Oak	1	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	Variable	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub

<b>197</b>	4131 - Aspen, Oak	Sapling Medium	27.4	22	Immature	N/A	Some of the pure aspen clones are pole sizes but overall the average is still saplings. Very mixed stand with some barren areas that have not regenerated at all.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	28	Sapling/Pole	4	22
Red Oak	20	Sapling	3	22
Bigtooth Aspen	36	Sapling/Pole	4	22
Pin Cherry	4	Pole	5	22
White Pine	1	Sapling	3	
Red Pine	1	Sapling	3	
Jack Pine	1	Sapling	3	
White Oak	4	Sapling	3	
Quaking Aspen	5	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
<b>198</b>	4131 - Aspen, Oak	Sapling Well	39.1	22	Immature	N/A	Mixed stand with most of the aspen clones populating the eastern half. The oak is scattered about but not in a great concentration. The one species that is found throughout and is fairly heavy is maple.																																															
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<b>199</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	36.6	22	Immature	N/A	In the middle of the stand is a high ridge that is mostly aspen and maple in almost an even mix. The lower elevations contain mostly oaks and are sparser in the canopy. The majority of the oaks are stump sprouted with about a third of the maple being the same.																																															
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<b>200</b>	4131 - Aspen, Oak	Poletimber Medium	76.7	33	1-50	N/A	Nice aspen stand with a heavy amount of maple in the understory though. Some pockets of oak on the higher ridges.																																															
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<b>201</b>	4131 - Aspen, Oak	Poletimber Well	53.6	33	Immature	N/A	Bisected by the ORV trail. Dense stand with a heavy amount of maple in the overstory and under.																																															
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<b>202</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	83.4	46	81-110	N/A	D.R.I.P. cut with most of the oaks being multi-stemmed stump sprouts making the oak poor quality. There is so much of an aspen component intermixed in, especially at the south end, that it would be hard to try and manage for the oak without damaging to much of the aspen. As stated the oak is poor quality so should manage the stand on the aspen rotation.																																															
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<b>203</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	28.1	95	81-110	N/A	More of a white oak component. This site could be managed for larger white oaks and better quality oak poles/small saw log by removing a vast majority of the overmature pin oaks, creating some regeneration gaps. Remove all the aspen. Looking for a target basal areas of around 70-90. Oak and pine present in the understory that will benefit from opening up the canopy.																
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Red Maple		5	Pole	8		White Pine																	
White Oak		45	Log/Pole	12	95	Low																	
Northern Pin Oak		35	Log/Pole/Sap	14	95	Variable																	
White Pine		3	Log/Pole	10		Sapling																	
Bigtooth Aspen		12	Pole/Log	8		Sapling																	
<b>204</b>	500 - Water	Nonstocked	19.8			No	Spring lake																
<b>205</b>	4123 - Red Oak	Sapling Well	26.6	22	Immature	N/A	Excellent areas of stump sprout oak regeneration. Stand is mixed with Big tooth aspen. Some red maple.																
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>																	
Red Maple		24	Sapling/Pole	4	22	Red Oak																	
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Bigtooth Aspen		15	Sapling/Pole	4	22	5 - 10 feet																	
White Oak		10	Sapling	3		Sapling																	
Red Pine		1	Pole	5		Sapling																	
<b>206</b>	4130 - Aspen	Sawtimber Well	54.3	50		N/A	Drip cut that can be treated to adjust the age spike of 40 year old age class in MA. This was from a D.R.I.P. cut. Trucks can only haul out to the south on Campground Road.																
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>																	
Northern Pin Oak		13	Log/Pole	10	50	Red Maple																	
Quaking Aspen		15	Pole/Log	9	50	Medium																	
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<b>207</b>	500 - Water	Nonstocked	4.4			No	Indian Lake																
<b>208</b>	6229 - Mixed lowland shrub	Nonstocked	11.7			No	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td></td> <td>Tall Shrub</td> </tr> <tr> <td>Mountain Alder</td> <td>Medium</td> <td></td> <td>Tall Shrub</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>&gt;20 feet</td> <td>Pole</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low		Tall Shrub	Mountain Alder	Medium		Tall Shrub	Quaking Aspen	Low	>20 feet	Pole
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Quaking Aspen		90	Log/Pole	12	95																		
Red Maple		10	Pole	7																			
<b>209</b>	4130 - Aspen	Sawtimber Well	8.3	95		N/A	Overmature quaking aspen stand that needs to be treated or will eventually lose the aspen component.																
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>																		
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<b>210</b>	4131 - Aspen, Oak	Poletimber Well	55.3	27	Immature	N/A	Good aspen clones. Where the oak regeneration is the basal area is sparser. Maple in the understory is high under the aspen overstory.																																									
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<b>211</b>	6225 - Bog	Nonstocked	1.9			No	wetland bowl with steep forested sides.																																									
<b>212</b>	4131 - Aspen, Oak	Sapling Well	19.2	12	Immature	N/A	Approximately 20+ basal area of saw classed residual trees left post harvest. The aspen is coming in fairly decent with an oak component. The regeneration is not being shaded out. Leave the large saw overstory for visual and mast/seeding.																																									
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<b>213</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	4.7	0		No	Site where Roscommon County Road Commission is storing gravel.																																									
<b>214</b>	4123 - Red Oak	Sapling Poor	9.8	22	Immature	N/A	Sparse oak with just a couple decent aspen clone inclusions. The seeded oak is getting browsed by deer.																																									
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<b>215</b>	4125 - Black, N. Pin Oak	Sapling Poor	4.5	22	Immature	N/A	Stand was not visited due to field restrictions in 2020. Sparsely regenerating poor quality oak. Mainly stump sprouts.																																									
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**216** 4123 - Red Oak Sapling Medium 21.1 27 Immature N/A Sparsely regenerated oak stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	70	Sapling	4	27
White Oak	5	Sapling	3	
Bigtooth Aspen	5	Sapling	2	
Red Maple	15	Sapling	2	
Jack Pine	5	Sapling	3	

**217** 42220 - Natural Jack Pine Sapling Poor 11.5 12 Immature N/A Stand was harvested in 2009 and is naturally seeding in with jack pine with a decent oak component. The oak is being browsed though.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	73	Sapling	1	12
Northern Pin Oak	15	Sapling	1	
Pin Cherry	5	Sapling	1	
Bigtooth Aspen	5	Sapling	1	
White Oak	2	Sapling	1	

**218** 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 11.6 22 Immature N/A Not the best regenerating stand. Think it is to far along to try and interplant with red pine. Might have been better last entry to try it. Hopefully the stump sprouting oaks don't turn into bushes.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	33	Sapling	2	22
Pin Cherry	4	Sapling	2	
Jack Pine	19	Sapling	3	
Bigtooth Aspen	28	Sapling	2	
Red Pine	3	Pole	6	
White Oak	2	Sapling	2	

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

**219** 122 - Road/Parking Lot Nonstocked 3.8 0 No Emery Road

**220** 4130 - Aspen Sapling Poor 8.1 12 Immature N/A Stand harvested 2009 with better regenerating aspen clones along the east side with the other side being sparser with aspen but having a higher jack pine component.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	18	Sapling	1	
Bigtooth Aspen	67	Sapling	1	12
Pin Cherry	5	Sapling	1	
Northern Pin Oak	8	Sapling	1	
Red Maple	2	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>221</b>	4130 - Aspen	Poletimber Well	106.7	46		N/A	Large stand of primarily big tooth aspen mixed with red oak stump sprouts. This stand was created by D.R.I.P. cuts. Was originally stand 12 but split this off to treat so to adjust the spike in 40 year old aspen in MA.																													
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Red Maple	High	Variable	Sapling																																	

<b>222</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	16.1	95	111-140	N/A	Overmature pin oak stand that is dying out. There is hardly any regeneration in the understory and none of what is there is oak. Feel the oak is to far along to stump sprout well so if it was harvested the site would not regenerate and loose the oak component altogether. Stand lies between spring and indian lake and is visable from PVT property. This stand could be cut and planted to red pine with oak inter-planted by wildlife division as is being done in the Northeast District.																																					
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