



# Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71045

Entry Year 2023

Acreage: 1,562

County Roscommon

Management Area: Upper Muskegon

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**Stand Examiner:** Dale Ekdorn

## Legal Description:

T22N R02W Sections 19, 20, and 29 - 31

## Identified Planning Goals:

Vegetation management in the Upper Muskegon management area will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

## Soil and topography:

Terrain is mostly flat to gently rolling and cut by numerous drainages. Soils are Saugatuck and Rubicon sands and Newton Loamy sands on the drier uplands and Rifle peat in the lower drainages and potholes.

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

This compartment is made up of a large block of state ownership with scattered private ownership. Private property within the compartment includes a sub-division centered on Shadow Lake in Section 19 and several large undeveloped parcels in Section 30 and 31. The private property adjacent to the west edge of the compartment is split into many parcels which range from undeveloped recreational properties to year-around residences.

## Unique Natural Features:

Osprey and Loon have been documented on state land adjacent to the compartment. One active Goshawk nest was found in the compartment in 2017/2018.

## Archeological, Historical, and Cultural Features:

None known or detected during fieldwork

## Special Management Designations or Considerations:

Compartment has several stands that have the potential to be designated as Type 1 or 2 old growth in the next 20-30 years.

## Watershed and Fisheries Considerations:

Shadow Lake (east part of Lake James) and the North and South Branches of Denton Creek and an un-named creek flowing into Shadow Lake from the south. All three creeks are currently heavily impacted by beaver activity. Denton Creek Flooding is just to the east of the compartment.

## Wildlife Habitat Considerations:

The compartment is located just west of the Denton Creek Flooding with the Denton dam and associated dike on the southeastern compartment boundary. Much of the compartment consists of lowlands with scattered aspen stands on the high ground. In the southern portion of the compartment, conifer stands are more common and intermixed with lowlands. The compartment is important to deer, turkey, grouse and woodcock. Black bear and snowshoe hare also frequent the compartment, especially in association with the lowland areas of the compartment. 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. 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 five managed wildlife openings within the compartment. The Denton dam is currently planned for removal in 2021 or 2022 due to its age and significant hazard rating.

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

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is more than five miles from the compartment. The compartment consists of mostly low and wet areas, and sand & gravel development potential may be limited. The small and abandoned Denton Creek oil field is less than one mile southeast. There has been no recent activity associated with the field. The most recent well activity was a dry hole just west of the compartment in 2010. There is currently no mineral leasing activity in or around the compartment, and oil & gas potential is considered low at this time.

## **Vehicle Access:**

Vehicle access to the edges of the compartment are good via county roads, forest roads, and state recreational trails but vehicle access to most of the interior of the compartment is very poor due to the low/wet terrain.

## **Survey Needs:**

None necessary at this time

## **Recreational Facilities and Opportunities:**

The combined snowmobile trail/ORV route runs through sections of this compartment and the powerline/pipeline ROW on the west side of the compartment is heavily used by snowmobiles and ORV's. This compartment and adjacent state forest land is heavily used for deer hunting, water-fowl hunting, trapping, and other recreational use due to its proximity to Prudenville.

## **Fire Protection:**

Compartment has no recent history of major fires, low incidence of wildland-urban interface except for NW1/4 Section 19, no large concentrations of high hazard fuel types, and numerous natural barriers to fire spread. It is also in close proximity to fire suppression forces.

## **Additional Compartment Information:**

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

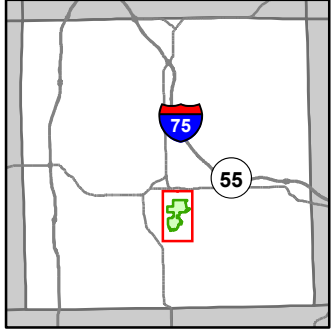
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

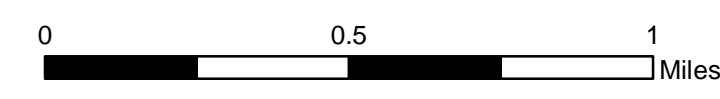
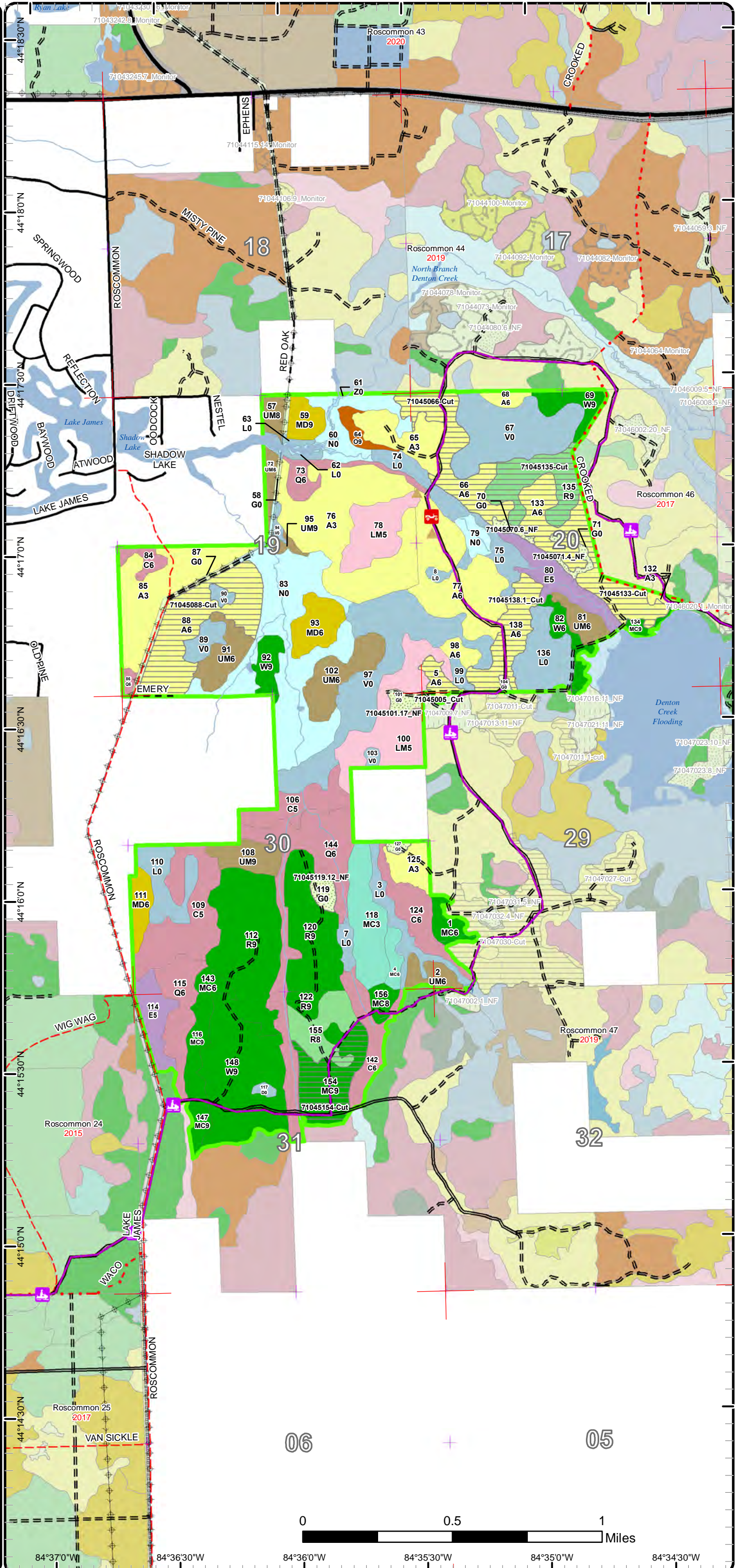
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 45  
 T22N, R02W, Sec. 19-20, 29-31  
 County: Roscommon  
 Unit: Roscommon  
 Mgmt Area: Upper Muskegon  
 YOE: 2023  
 Acres: 1561.8 GIS Calculated  
 Examiner: Dale Ekdorn  
 Map Revised: 4/15/2022  
 Map Phase: Post-Review



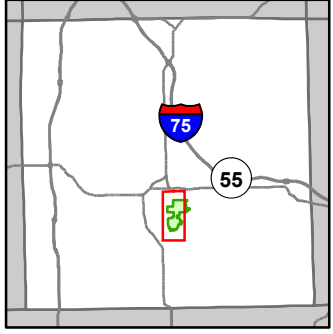
- Miris Corners
- ⊕ Remonumented Section Corners
- Counties
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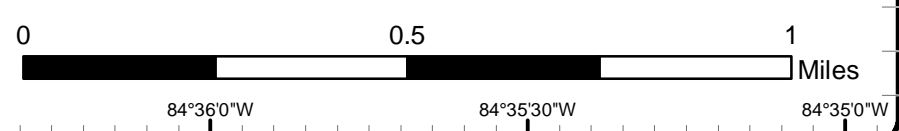
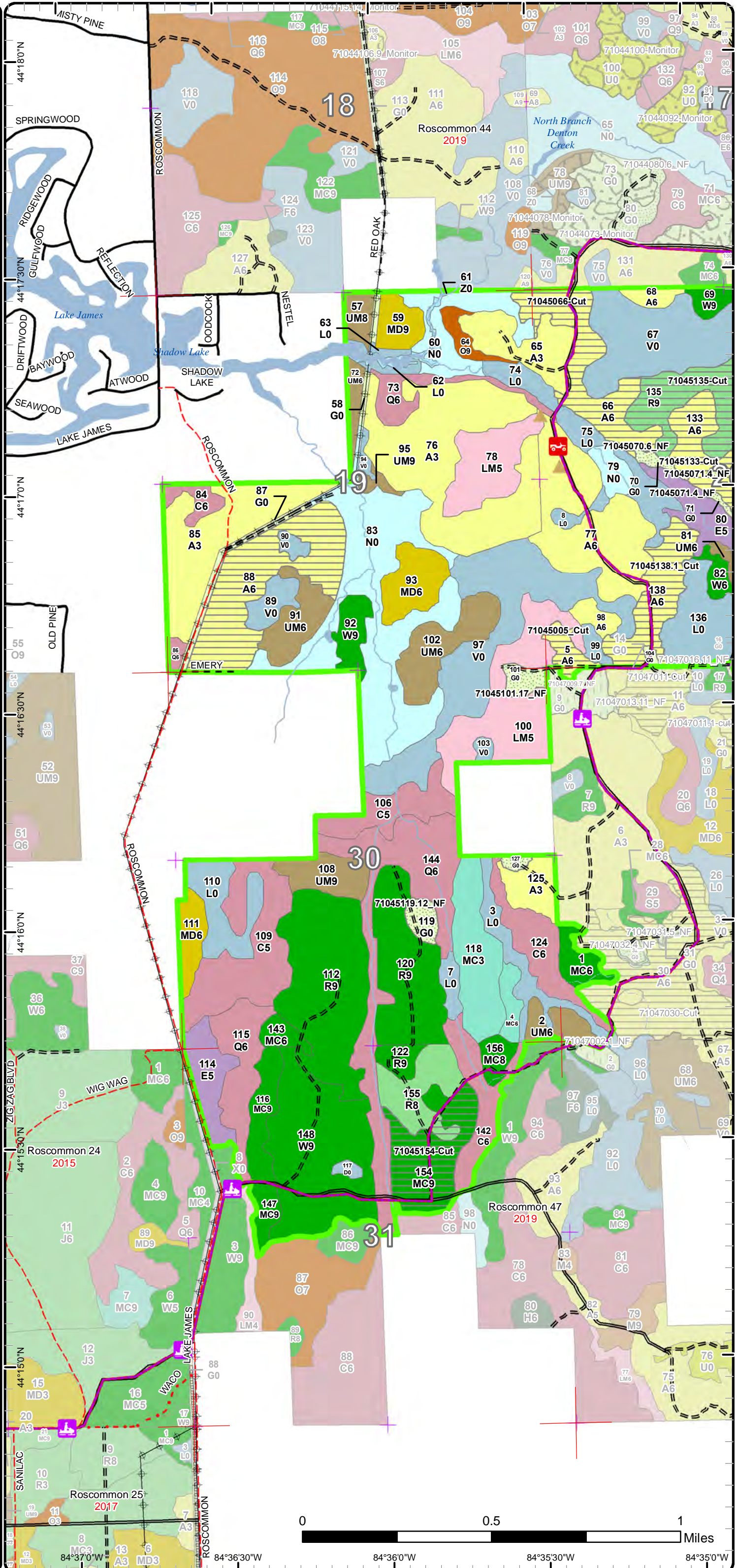
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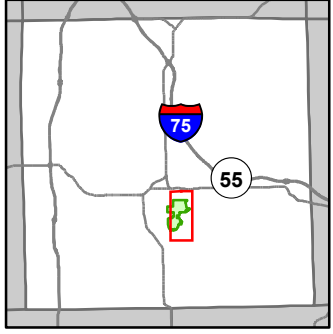


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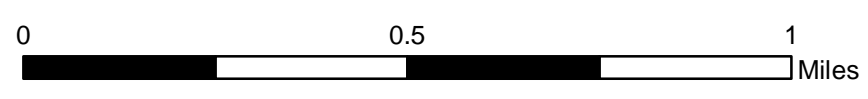
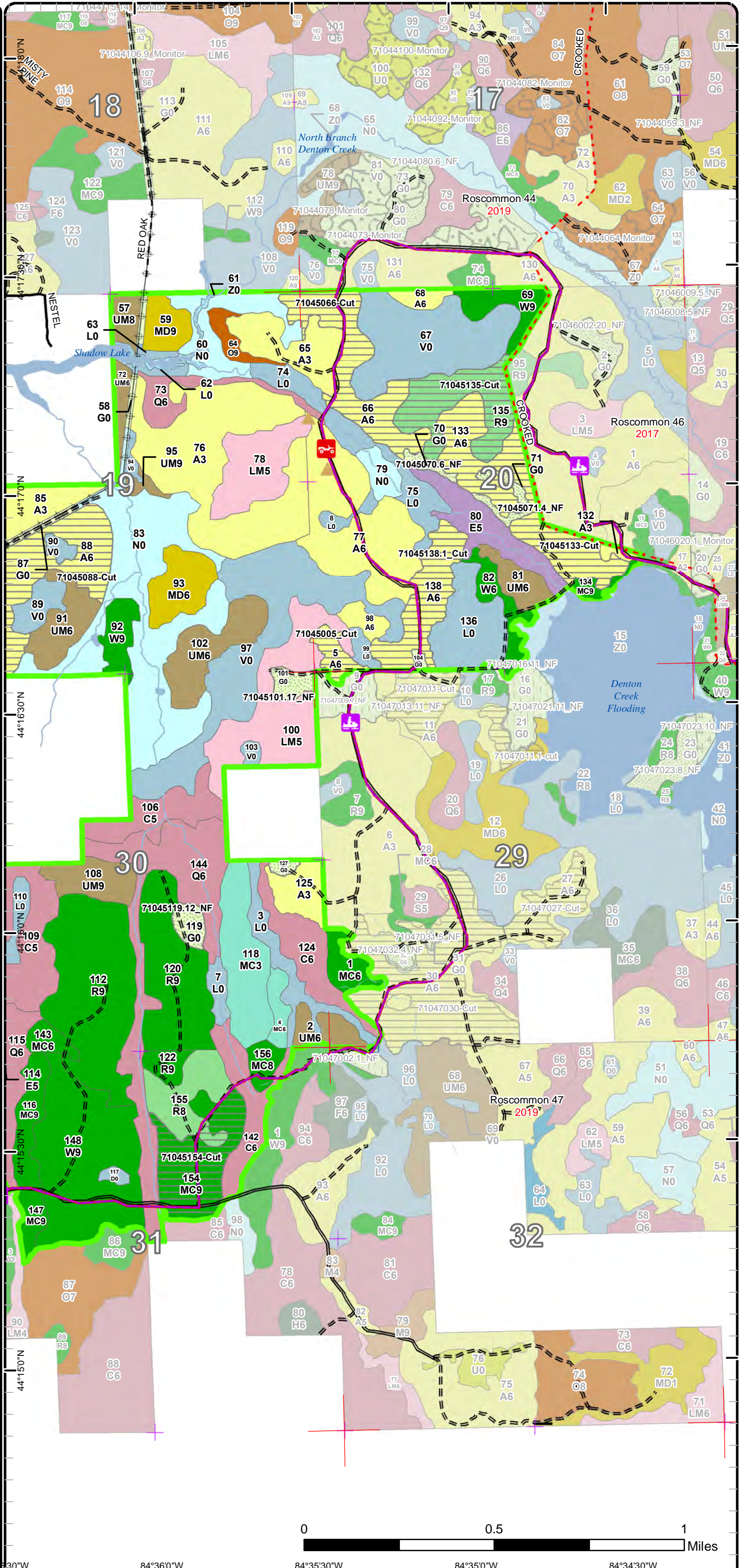


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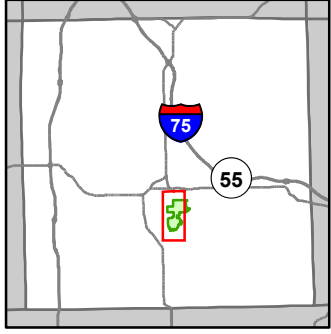
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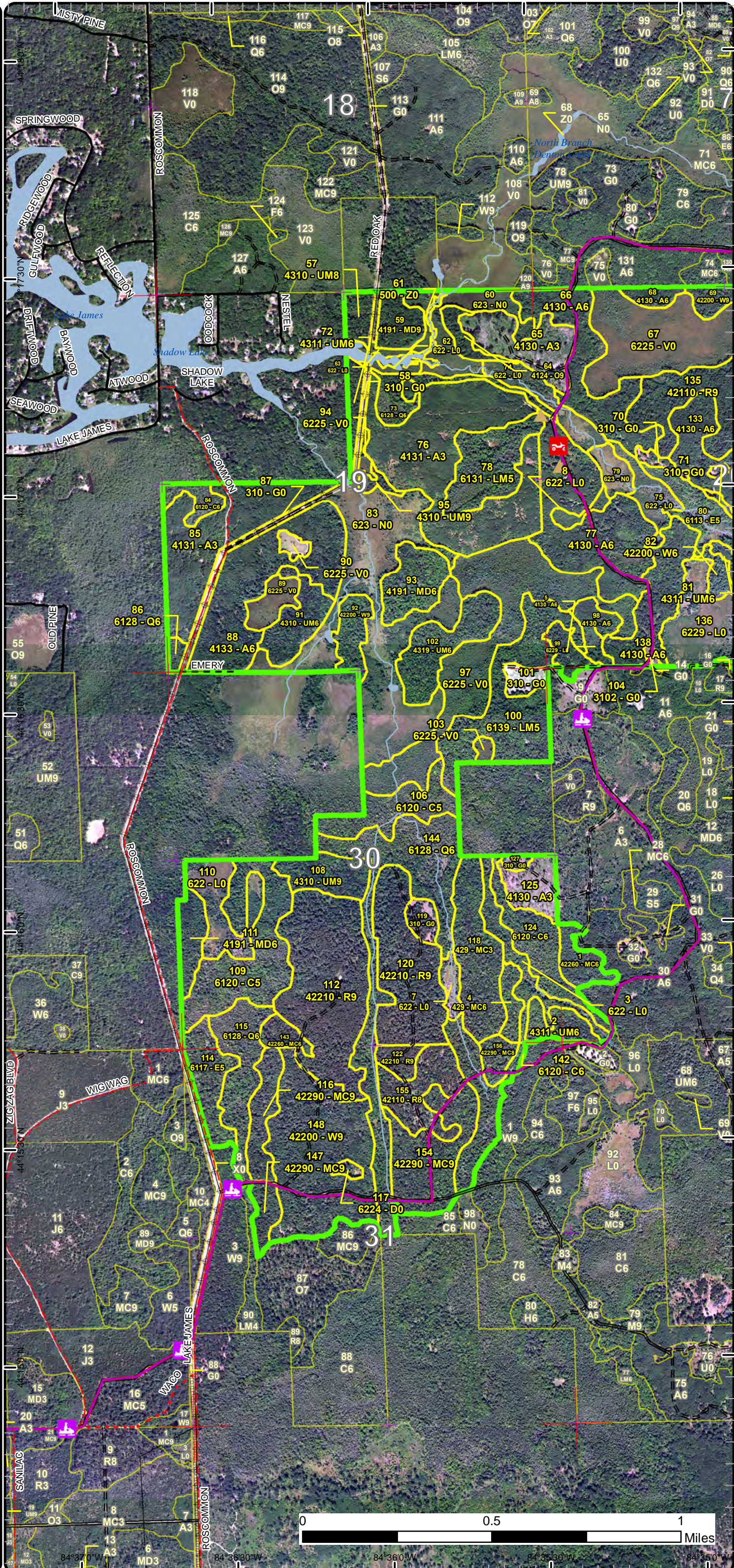
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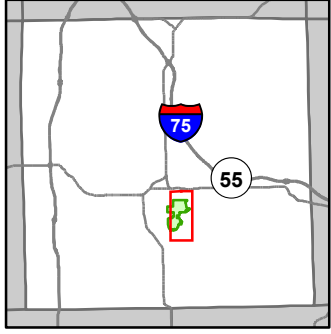


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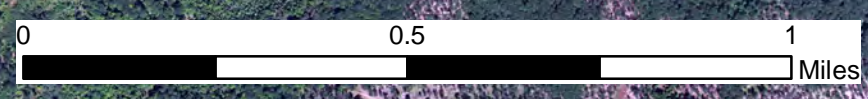
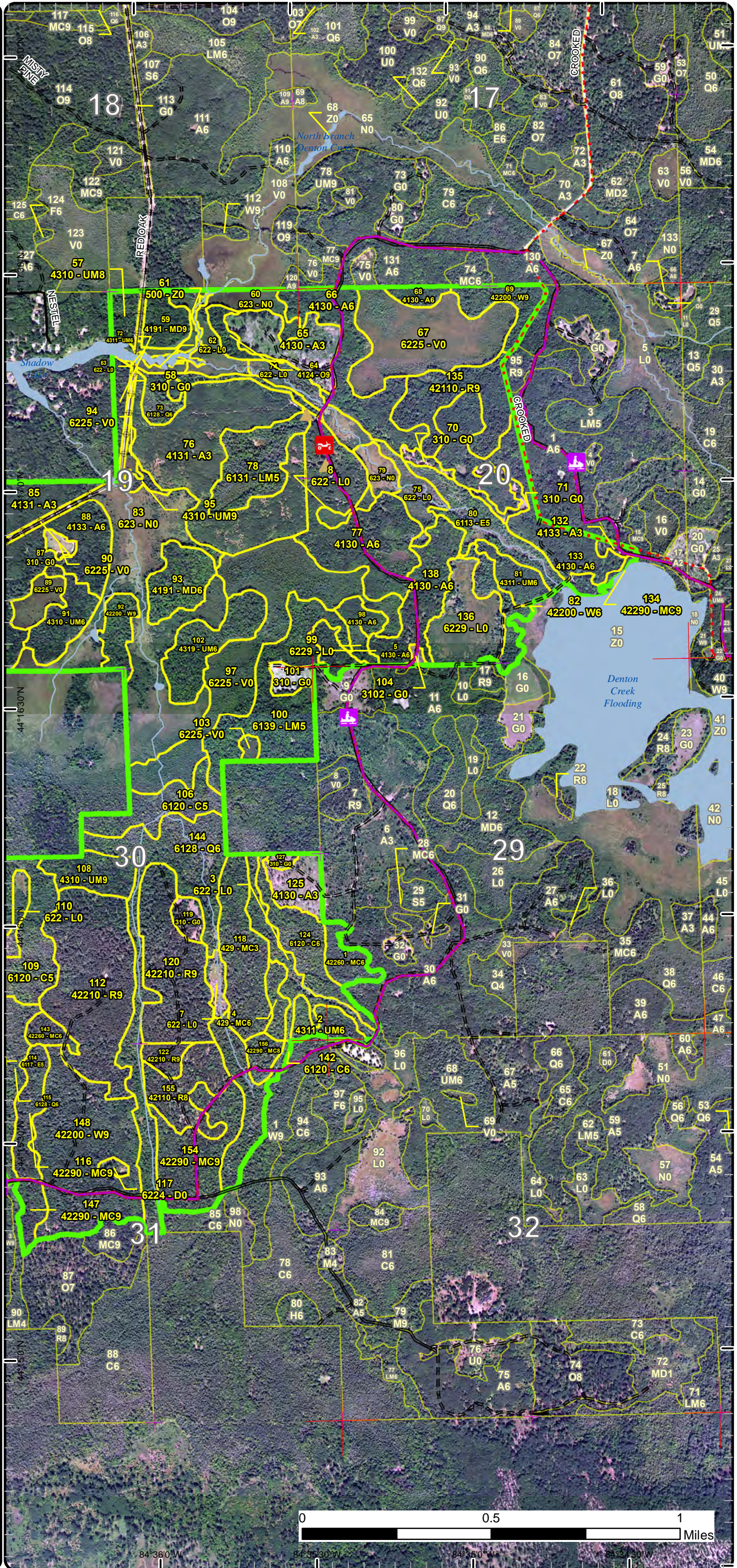


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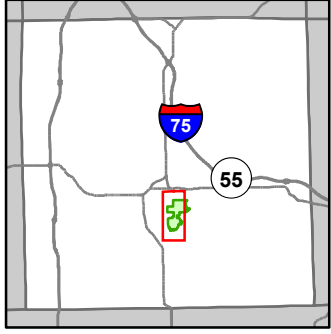
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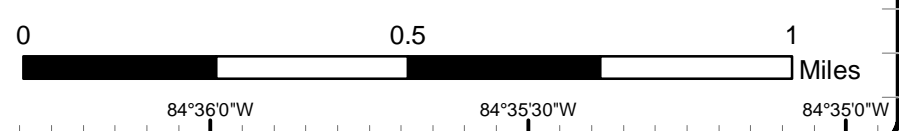
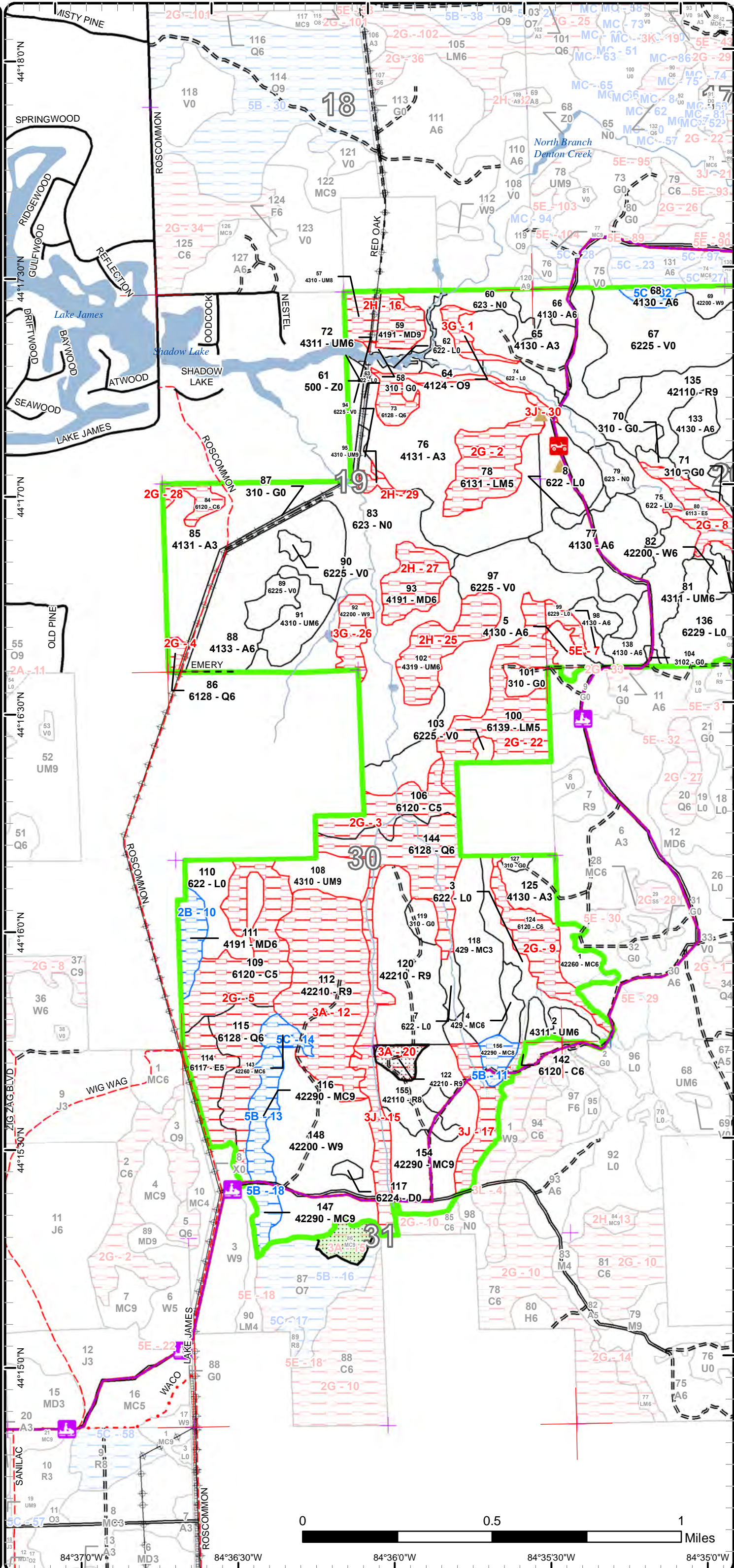
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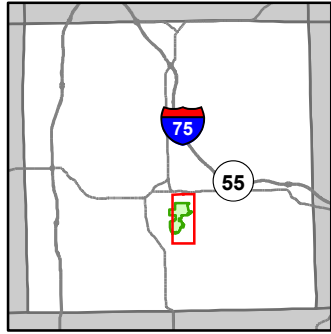
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- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Possible Type 1 Old Growth



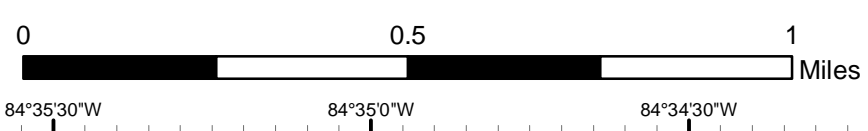
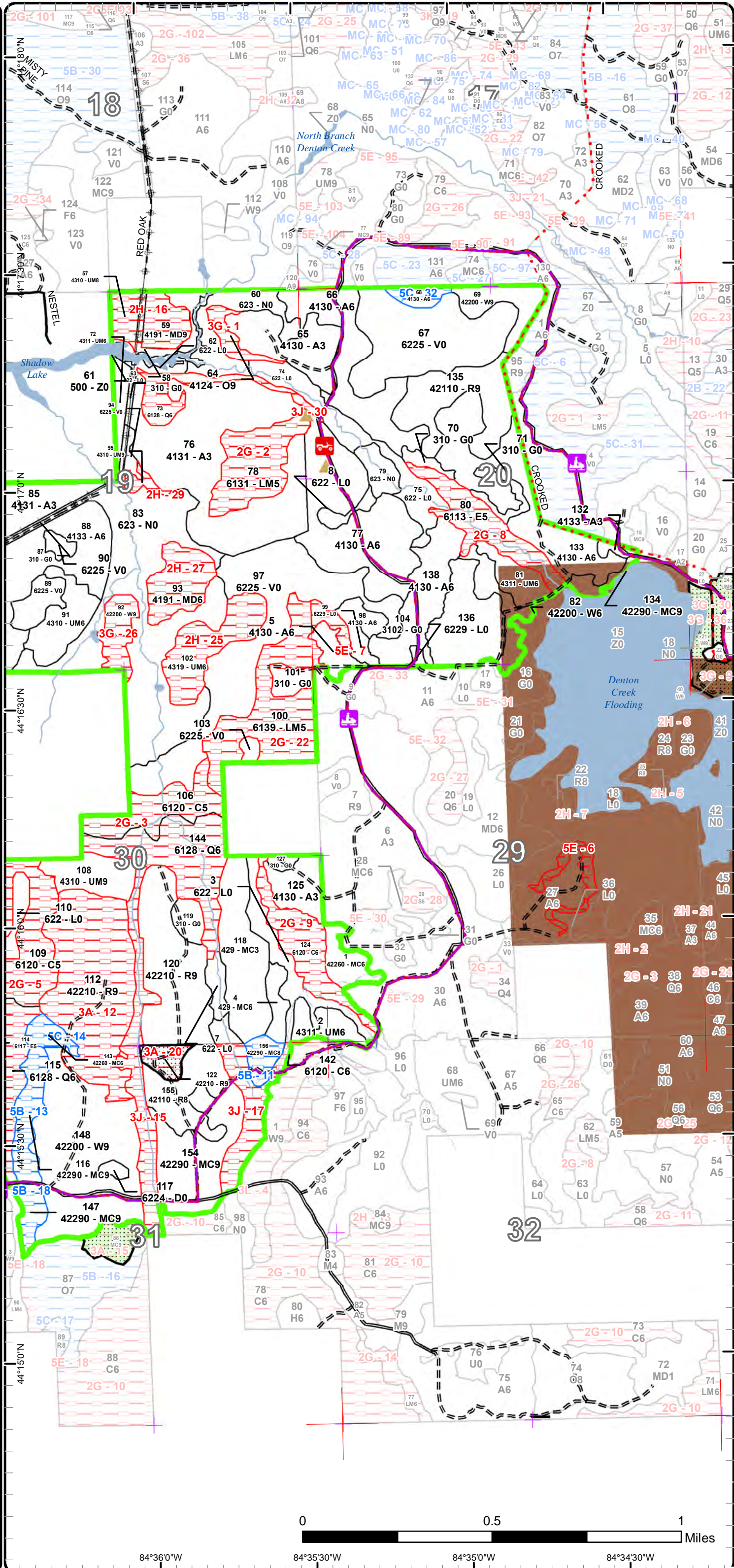


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Report 1 – Total Acres by Cover Type and Age Class



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	33	80	45	0	59	50	113	0	0	0	0	0	0	0	0	0	0	379
Bog	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130
Cedar	0	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	41	107
Herbaceous Openland	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Conifers	0	0	0	0	0	0	0	0	0	58	2	24	0	0	0	0	0	12	96
Lowland Deciduous	0	0	0	0	0	0	0	0	17	21	0	0	0	0	0	0	0	0	38
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	45	69
Lowland Shrub	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Marsh	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Mixed Upland Deciduous	0	0	0	0	0	0	10	0	0	0	0	10	0	0	0	0	0	17	37
Natural Mixed Pines	0	0	0	0	0	0	14	0	32	0	4	7	19	0	0	0	0	0	76
Oak	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	0	0	0	21	0	0	29	6	63	0	0	0	0	41	159
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	36
Upland Mixed Forest	0	0	0	0	9	9	21	0	0	0	9	0	0	0	0	0	0	36	84
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	11	0	0	65	12	0	0	0	0	0	0	0	0	10	98
<b>Total</b>	<b>379</b>	<b>33</b>	<b>80</b>	<b>45</b>	<b>20</b>	<b>104</b>	<b>95</b>	<b>199</b>	<b>44</b>	<b>22</b>	<b>112</b>	<b>125</b>	<b>106</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>202</b>	<b>1563</b>



## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2023

Acres of Harvest

Compartment 45  
Total Compartment Acres: 1,562

Commercial Harvest - 220  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	159	0	0	0	0	0	0	0	0	159
Natural Mixed Pines	32	0	0	0	0	0	0	0	0	32
Red Pine	29	0	0	0	0	0	0	0	0	29
<b>Total</b>	<b>220</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>220</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	220	0	0	0	0	0	0	19		239
Next Step	0	93	61	0	0	61	280	0	19	513
<b>Total</b>	<b>220</b>	<b>93</b>	<b>61</b>	<b>0</b>	<b>0</b>	<b>61</b>	<b>280</b>	<b>0</b>	<b>38</b>	<b>752</b>



Stand Name	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>5</b>	<b>71045005_Cut</b>	6.3	4130 - Aspen	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand with 2" spec to comply with management area goals. Leave retention in the form of multiple small islands. Buffer small wet pockets. Apply drumming log and brush pile specs. Snowmobile and orv trail run through stand.</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 and maple 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> 7 /17/2019</p>											
<b>66</b>	<b>71045066-Cut</b>	33.7	4130 - Aspen	Poletimber Well	60	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> harvest for aspen management, leave out and buffer wetter areas/ intermittent stream and conifer areas along drainage/bog as necessary</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> Any combination of aspen and other species to a fully stocked stand</p> <p><u>Regen:</u></p> <p><u>Other</u> Add brush pile and drumming log specs, add snowmobile trail protection specs, possibly dip into aspen stand to the north as it is the same</p> <p><u>Comment:</u> stand but different compartment, possibly dormant season cut to maximize sprouting of older aspen</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>70</b>	<b>71045070.6_N F</b>	2.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Denton Creek Field 5.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Mowing</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2018</p>											



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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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71	71045071.4_N F	4.3	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland	No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Denton Creek Field 6.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Mowing</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2018</p>										

88	71045088-Cut	50.2	4133 - Aspen, Mixed Pine	Poletimber Well	56		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> treat for aspen management, buffer wet potholes, marsh, and leave areas heavy to WP and/or oak for retention, also mark oak SL for mast,</p> <p><u>Specs:</u> especially white oak or possibly just leave all oak, stand may exceed chapter 7 limits after all retention has been applied - approve smaller size at review</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of aspen and other species to a fully stocked stand</p> <p><u>Regen:</u></p> <p><u>Other</u> add brush pile and drumming log specs</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

101	71045101.17_ NF	5.0	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Mowing	310 - Herbaceous Openland	No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Denton Creek Field 7.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Mowing</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/30/1899</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
119 71045119.12_ NF	5.2	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Mowing	310 - Herbaceous Openland		No
<u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Denton Creek Field 12. <u>Specs:</u> <u>Next Step</u> NonForestMgt, Mowing <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 7 /15/2021										
127 71045127.13_ NF	1.8	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Mowing	310 - Herbaceous Openland		No
<u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Denton Creek Field 13 <u>Specs:</u> <u>Next Step</u> NonForestMgt, Mowing <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 7 /15/2021										
133 71045133-Cut	44.0	4130 - Aspen	Poletimber Well	60	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> regenerate stand for aspen management, put retention on buffers for wet areas/drainage on west and where white pine or oak is heavy along <u>Specs:</u> Crooked Road, also buffer maintained grassy openings, mark white oak to retain for mast <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> any combination of aspen and other species to a fully stocked stand <u>Regen:</u> <u>Other</u> use brush pile and drumming log specs, possibly dormant season cut to maximize sprouting of older aspen <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										

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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>135 71045135-Cut</b>	28.6	42110 - Planted Red Pine	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> cut and regenerate to red pine with full suite of tools, place retention islands along Crooked Road and in SE and SW arms, use brush pile  <u>Specs:</u> spec along north edge. Sale will be heavy to hardwood tops so add chipping spec., could possibly leave some areas heavy to A3 out of any spray treatment for diversity.</p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Site Prep; Monitoring, Artificial Regen(1yr); Monitoring, Artificial  <u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable</u> Red Pine Plantation  <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 /2022</p>										
<b>138 71045138.1_C ut</b>	24.8	4130 - Aspen	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand with 2" spec to comply with management area goals. Leave retention in the form of multiple small islands. Buffer small wet  <u>Specs:</u> pockets. Apply drumming log and brush pile specs. Snowmobile and orv trail run through stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen and maple at fully stocked levels.  <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 /2018</p>										
<b>154 71045154-Cut</b>	32.1	42290 - Natural Mixed Pine	Sawtimber Well	77	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> best to restart this stand to red pine now using full suite of tools, would damage too much understory if thinned now Straighten out line  <u>Specs:</u> between 154 and 155 using trail as boundary in spots, require chipping due to heavy fir understory which will have to be managed prior to regeneration.</p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Site Prep; Monitoring, Artificial Regen(1yr); Monitoring, Artificial  <u>Treatments:</u> Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Acceptable</u> Fully stocked red pine plantation  <u>Regen:</u></p> <p><u>Other</u> use snowmobile trail specs, use brush pile spec along swamp edges, trench/plant and spray around some areas that come back to A3 or O3  <u>Comment:</u> for diversity. Leave retention in the form of islands along the snowmobile trail which can also function for visual/aesthetics.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Total Treatment** 238.5  
**Acreage Proposed:**

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdom : Examiner

Compartment: 45

Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions									
		With Condition				2B	5B	5C	2G	2H	3A	3G	3J	5E	
380	375	5	0		Aspen			5	0	0				0	0
129	129	0	0		Bog					0					
107	3	0	104		Cedar				87					17	
29	28	0	1		Herbaceous Openland				0	1					
95	0	0	95		Lowland Conifers				69		0			26	
38	0	0	38		Lowland Deciduous				38						
69	0	0	69		Lowland Mixed Forest				65						4
98	98	0	0		Lowland Shrub					0				0	0
114	114	0	0		Marsh					0					
37	0	10	26		Mixed Upland Deciduous	10					26				
77	45	31	0		Natural Mixed Pines		26	5	0					0	
5	0	0	5		Oak							5			
159	90	0	69		Red Pine			0			69				
2	2	0	0		Treed Bog										
35	35	0	0		Upland Conifers										
85	54	0	31		Upland Mixed Forest					31					
5	5	0	0		Water										
98	88	0	10		White Pine							10			
1,562	1,067	46	448		Total Forested Acres	10	26	10	259	59	69	15	43	4	
	68%	3%	29%		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	3G: Other Influence zones - See comments	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retain for Turkey roosting spot and wood duck nesting spot along Denton Creek							



## Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 45

Dale Ekdorn : Examiner

Year of Entry: 2023

2	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	62	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	82	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	5E: Long-Term Retention	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 45

Dale Ekdorn : Examiner

Year of Entry: 2023

8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	10	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> private property access only, may need survey							
11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	63	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possible Type 2 OG in a few years							
13	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 45

Dale Ekdorn : Examiner

Year of Entry: 2023

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	3A: Conservation Values incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
This stand is going to managed toward type 1 old growth. It has never had harvest activity and it was agreed to manage it as such.							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 45

Dale Ekdorn : Examiner

Year of Entry: 2023

22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> natural WP stand (dry-mesic northern forest) with lots of blowdown/CWD, part of riparian corridor, no access due to wet terrain surrounding stand							
27	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> WP/Oak stand starting to develop all-aged structure, surrounded by wet terrain and nice aspen regeneration which would be damaged during access							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdorn : Examiner

Compartment: 45

Year of Entry: 2023

30	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> part of original old growth plan - should be retained as SCA</p>							
32	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Treat with adjacent compartment.</p>							



**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
<b>Comments</b>	Type 1 or Type 2 Old Growth	Possible Type 1 Old Growth Area	<b>SCA</b>	6
<b>Comments</b>	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	<b>SCA</b>	8
<b>71119013</b> <b>Comments</b> Type 2 Old Growth	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	<b>SCA</b>	6



### Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
1	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	9.1	59	81-110	N/A																																																									
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2	4311 - Pine, Aspen Mix	Poletimber Well	9.1	46	81-110	N/A	Mixed aspen stand with balsam fir. Some areas of heavier white pine poletimber. Some wet areas near the east side of the stand. Small creek drainage along the sw side. Snowmobile/orv trail run on southeast edge of the stand.																																																								
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3	622 - Lowland Shrub	Nonstocked	15.0	0		No	.																																																								
4	429 - Mixed Upland Conifers	Poletimber Well	5.8	46	81-110	N/A	Mixed aspen stand with balsam fir and white pine. Some areas of heavier white pine poletimber. Some wet areas near the east side of the stand. Scattered areas with a few cedar and hemlock. Lots of wildlife sign and thermal cover for deer. Small creek drainages along the southwest side. Hold and cut when stand to the southwest is treated as not worth cutting by itself due to small acreage/volumes.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
7	622 - Lowland Shrub	Nonstocked	4.6	0		No	Free flowing stream in a lowland brush stand																																																			
8	622 - Lowland Shrub	Nonstocked	3.3			No	Floodplain Denton Creek																																																			
57	4310 - Pine, Oak Mix	Sawtimber Medium	6.2	101	51-80	N/A	south part of the stand is ridge with R& W pine, oak, RM, and aspen SL and poles, north part is lower and flatter with RM, aspen, and oak poles and scattered WP SL, middle part is a wet pothole with RM poles, tag alder, balsam fir saps/poles, and scattered WP SL, most species doing well but aspen and jack pine starting to break up, could cut A/M/J to 4" and leave R/W pine and oak this YOE but probably not worth treating due to small acreage and difficult access.																																																			
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58	310 - Herbaceous Openland	Nonstocked	2.7			No	Utility R.O.W.																																																			
59	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	9.8	101	141-170	N/A	upland hardwoods with heavy WP understory, scattered WP SL & XL also, pockets are heavy to BTA with lots of solitary aspen also, stand is a knoll which slopes to E/N/S to low ground, should regenerate to aspen if cut or hold and manage for WP in 10-20 years																																																			
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60	623 - Emergent Wetland	Nonstocked	20.8			No	Floodplain and confluence of Denton Creek and North Branch Denton Creek																																																			
61	500 - Water	Nonstocked	5.1			No	Far east end of Lake James/Shadow Lake																																																			
62	622 - Lowland Shrub	Nonstocked	2.5			No																																																				
63	622 - Lowland Shrub	Nonstocked	2.2			No																																																				



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<b>64</b>	4124 - Red with White Oak	Sawtimber Well	5.4	81	51-80	N/A	area that was heavy to oak that was left when aspen to the east was cut, retain for wildlife stand along Denton Creek																																										
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<b>65</b>	4130 - Aspen	Sapling Well	21.4	7	Immature	N/A	Stand was cut in late fall 2015, left all oak when cut, fully stocked with a few areas which are sparser																																										
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<b>66</b>	4130 - Aspen	Poletimber Well	33.7	60	51-80	N/A	Stand narrows in the middle and is dominated by red maple and white pine. A intermittent stream also flows there. Edges along bog to north and drainage to south are heavy to conifers.																																										
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<b>67</b>	6225 - Bog	Nonstocked	48.8			No	large bog																																										
<b>68</b>	4130 - Aspen	Poletimber Well	4.5	60	51-80	N/A	A few scattered supercanopy oak and pine present. Strip of mixed pine along the bog edge. Manage with the stand and compartment to the north.																																										
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<b>69</b>	42200 - Natural White Pine	Sawtimber Well	12.1	70	81-110	N/A	just reaching log size, thin in 10 years?																																										
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<b>70</b>	310 - Herbaceous Openland	Nonstocked	2.5		Unspecified	Managed Opening	Wildlife Opening																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**71** 310 - Herbaceous Openland Nonstocked 4.3 Unspecified Managed Opening Wildlife Opening.

**72** 4311 - Pine, Aspen Mix Poletimber Well 5.4 56 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	25	Log	12	101
Bigtooth Aspen	20	Pole/Log	9	
White Pine	30	Pole	9	56
Red Maple	25	Log/Pole	10	56

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Oak	Low	Variable	Sapling
White Pine	Low	>20 feet	Sapling
Red Pine	Medium	Variable	Sapling

2 aged stand with older aspen with younger RM/WP underneath, north end is more red pine (planted and natural) while south end is more UMG and slightly lower/wetter, fer south end is very wet with "L" understory, mixed ages and species appears to have been from "choppers choice" cut in the 1960's, oldest aspen/red maple is 100 years old, youngest aspen/red maple is 45 years old, R/W pine shows similar age patterns, poor access - need culvert and probably crane mats to cross wet spot with stream and survey to establish private line or come away around from the north thru A3 stand so probably not worth cutting.

**73** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 11.7 101 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	20	Pole	6	
Black Spruce	10	Pole	5	
Red Maple	35	Pole/Log	10	101
White Pine	10	Pole	6	
Northern White Cedar	25	Pole	6	101

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

RM poles with encroaching swamp conifers, also scattered WB poles and WP X-logs, stand is moving towards all aged and is on low/wet

**74** 622 - Lowland Shrub Nonstocked 7.3 No Floodplain Denton Creek

**75** 622 - Lowland Shrub Nonstocked 15.6 No Floodplain Denton Creek

**76** 4131 - Aspen, Oak Sapling Well 77.6 17 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	40	Sapling	2	17
Red Maple	20	Sapling	1	17
Pin Cherry	10	Sapling	1	
Northern Pin Oak	30	Sapling	1	17

cut 2004 (block 1130) and regenerated to A3 clones & some more open areas with oak and RM regeneration, scattered JP seedlings also. some beaver activity on northern edges along creek drainage.

**77** 4130 - Aspen Poletimber Well 54.3 40 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Sapling	5	
Red Maple	10	Pole/Sapling	5	
Quaking Aspen	43	Pole/Sapling	5	40
Bigtooth Aspen	35	Pole/Sapling	5	
White Pine	2	Pole/Log	8	

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

Mixed aspen stand with balsam fir. Young poletimber stand. South end is more lower/wetter terrain. Not ready to regenerate.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
78	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Medium	24.5	101	81-110	N/A	stand appears to have been a choppers choice OR cut only HW's in mid 1960's, low hummocky stand with standing water part of the year, numerous pockets of "L" which are wet all year especially in the south and west ends of the stand, ground cover is a mix of leatherleaf and blue berry and the canopy is a mix of WP/RM/A/Oak poles and scattered WP/Oak SL and X-logs, two-aged going towards all-aged, possibly designate as SCA at some point																																															
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79	623 - Emergent Wetland	Nonstocked	6.4			No	Floodplain Denton Creek																																															
80	6113 - Lowland Maple	Poletimber Medium	21.0	92	51-80	N/A	Lowland hardwoods around Denton Creek.																																															
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81	4311 - Pine, Aspen Mix	Poletimber Well	9.3	30	1-50	N/A	young pole stand with balsam fir / white pine understory																																															
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82	42200 - Natural White Pine	Poletimber Well	10.7	30	81-110	N/A	Multiple aged white pine stand. Some are pole class from harvest that was done 20 to 30 years ago. There are also clumps of large diameter white pine.																																															
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83	623 - Emergent Wetland	Nonstocked	87.1			No	Large marshy/lowland brush area with stream																																															
84	6120 - Lowland Cedar	Poletimber Well	6.2	101		N/A	cedar swamp with BF saps/poles in blowdown gaps																																															
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<b>85</b>	4131 - Aspen, Oak	Sapling Well	44.5	26	Immature	N/A	cut in 1995 and regenerated to fairly equal mix of BTA, TA, RM, Oak with a scattering of WP & oak poles																																																										
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<b>86</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	2.3	101		N/A	low/wet pothole with mostly swamp conifers but also some swamp hardwoods on the the more upland edges, balsam fir saplings becoming established in the understory																																																										
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<b>87</b>	310 - Herbaceous Openland	Nonstocked	6.7			No	Utility R.O.W. with seasonal county road																																																										
<b>88</b>	4133 - Aspen, Mixed Pine	Poletimber Well	50.2	56		N/A	mixed stand of TA/BTA, scattered areas heavy to WP SL/poles and several wetter pockets/drainages with "L", BTA is merchantable but a few of the areas with TA are fairly small in dbh but stand still is worth cutting if needed, recommend cutting to help with aspen age class distribution																																																										
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<b>89</b>	6225 - Bog	Nonstocked	7.9			No	small bog																																																										
<b>90</b>	6225 - Bog	Nonstocked	2.6			No	small leatherleaf bog																																																										



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<b>91</b>	4310 - Pine, Oak Mix	Poletimber Well	15.6	56	81-110	N/A	2 aged stand with NPO/WP logs and WP/RM poles, appears to have had aspen and red maple removed in the mid 1960's leaving oak and WP, oak is decent pin and red oak with a few white oak, spots with red maple started in understory along with balsam fir on the swamp edge, some spots are fairly light density and others are more stocked, recommend thinning in 10 years to maintain a mix of pine and oak, oak age is estimated																																																
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<b>92</b>	42200 - Natural White Pine	Sawtimber Well	9.9	111	111-140	N/A	WP island surrounded by marsh/beaver flooding, understory ranges from 5 -10 foot tall to 30-40 foot tall and saplings to almost pole size with ages ranging from 15-35 years old., stand is all-aged with X-Log R/W pine and SL aspen/RM in upper canopy, WP/RM poles in the middle canopy, and WP saplings in the sub-canopy, stand has lots of blow-down - data and notes from 1/26/2011 when I walked across the ice to get to stand																																																
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<b>93</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	16.7	101	111-140	N/A	island surrounded by wet terrain, BA is estimate																																																
<b>94</b>	6225 - Bog	Nonstocked	1.8			No																																																	
<b>95</b>	4310 - Pine, Oak Mix	Sawtimber Well	2.6	101	111-140	N/A	stand consists of 2 islands cut by "L" drainage, stand was left as conifer retention when stand to the north was cut in 2004, starting to develop all-aged structure, mostly W/J pine with scattered HW's, WP is heavily weeviled, jack pine and aspen falling out of stand, needs culvert to cross stream and probably some crane mats to cross a wet area																																																
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<b>97</b>	6225 - Bog	Nonstocked	66.5			No	large bog and treed bog, "L" in parts																																																
<b>98</b>	4130 - Aspen	Poletimber Well	4.9	40	1-50	N/A	S/Terrain is somewhat lower than stand to the south, still small diameter yet and not ready to cut.																																																
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<b>99</b>	6229 - Mixed lowland shrub	Nonstocked	3.3			No																																																	



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<b>100</b>	6139 - Mixed Lowland Forest	Poletimber Medium	44.7	101		N/A	low,wet,hummocky ground except for the far east edge which is higher ground, stand is transitioning from hardwoods to conifers and already appears all-aged, hardwood SL/poles over swamp conifer poles																																																								
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<b>101</b>	310 - Herbaceous Openland	Nonstocked	5.0			Managed Opening	Maintained Opening																																																								
<b>102</b>	4319 - Mixed Upland Forest	Poletimber Well	22.1	101	111-140	N/A	island surrounded by marsh and lowland shrub, ranges from dry and operable to low/hummocky semi-operable to low/wet non-operable terrain, RM/Aspen pole-log canopy with scattered WP X-logs, WP poles underneath the hardwood canopy and heavy balsam fir sapling understory below the WP poles, stand is at least 2 aged and going towards all-aged, possible SCA - data and notes from 1/26/2011 when I walked across the ice to get to stand, BA is an estimate																																																								
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<b>103</b>	6225 - Bog	Nonstocked	1.9			No																																																									
<b>104</b>	3102 - Grass	Nonstocked	1.2			Managed Opening																																																									
<b>106</b>	6120 - Lowland Cedar	Poletimber Medium	19.5	101		N/A	same as swamp stand to the south but less HW's, canopy less dense, and wetter terrain																																																								
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<b>108</b>	4310 - Pine, Oak Mix	Sawtimber Well	14.3	106	111-140	N/A	RP/HW SL over WP/BF saps and scattered RP/HW regeneration, east end and middle of stand has pine SL overtop WP/BF saps, west end is HW SL over WP saps, lots of blowdown/CWD, designated as POG in draft plan, retain as SCA																																														
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<b>109</b>	6120 - Lowland Cedar	Poletimber Medium	41.2	99		N/A	lowland aspen in past YO'E's - now most aspen is gone or on the way out, numerous blowdowns and tip-up mounds scattered thru-out stand with mostly balsam fir in these openings as understory																																														
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<b>110</b>	622 - Lowland Shrub	Nonstocked	19.2			No																																															
<b>111</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.1	56	111-140	N/A	choppers choice cuts in early 70's removed SL size hardwood trees, now fairly equal mix of RM/TA/WP, u.s WP/RM is almost pole size,																																														
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<b>112</b>	42210 - Natural Red Pine	Sawtimber Well	63.1	112	111-140	N/A	RP SL/scattered WP SL overtop R/W pine saps and poles, scattered HW regen. also, some CWD present from 1995 thinning operation, 2 aged going to all-aged with the largest saplings just below pole size and most poles just past merch. size, non-suppressed R/W pine saps are growing 1-1/2 to 2 feet per year, recorded RP SI is 75, stand designated as POG in draft OG plan, recommend retaining as SCA																																														
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<b>114</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	16.7	80	81-110	N/A	Numerous low ground swales with maple overstories and dense balsam fir understory. On the higher ground knobs find some oak with a dense fir understory. White pine is throughout the overstory in all areas. The maple appears to have been suppressed by its age versus diameter. 85% of the maple is multi-stemmed.																																														
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115	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	23.6	115	171-200	N/A	The predominate species is cedar. There is a free flowing stream that bisects the stand and along this stream is where the hemlock is concentrated. On the higher knobs you find the maple, aspen, and larger pines. This is also where the understory is the heaviest with balsam fir. No other regeneration of significance found. Heavy deer usage.																																										
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116	42290 - Natural Mixed Pine	Sawtimber Well	13.4	110	81-110	N/A	The whole stand was thinned winter/spring 2020 as a part of "Crushed Concrete White Pine." The southern half (5 acres) is where most of the red pine is congregated and was thinned in the summer 2010. The northern half is of higher white pine stocking and the heavier understory.																																										
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117	6224 - Treed Bog	Nonstocked	1.8	0		No																																											
118	429 - Mixed Upland Conifers	Sapling Well	29.5	41	1-50	N/A	HW SL and scattered R/W pine SL overtop WP/BF saps, scattered very small pockets of NWC/Hemlock, 2 aged with older HW's and younger pine, very heavy u.s., hardwood canopy starting to fall apart.																																										
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119	310 - Herbaceous Openland	Nonstocked	5.2			Managed Opening	Maintained Opening																																										
120	42210 - Natural Red Pine	Sawtimber Well	41.3	106	111-140	N/A	natural red pine stand which was thinned in 1994/5, mostly RP SL with scattered WP SL and a trace amount of HW poles/SL, u.s. is RP poles and WP saps, designated as POG in draft OG plan, recommend retaining as SCA																																										
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122	42210 - Natural Red Pine	Sawtimber Well	5.5	106	171-200	N/A	Nice natural red pine stand that has not been treated. It was slated in the past for potential old growth. Could let stand go and work that way or treat it with a thinning.																																										
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<b>124</b>	6120 - Lowland Cedar	Poletimber Well	20.0	101		N/A	cedar swamp cut by numerous drainages with lowland brush, seasonally to permanently wet																																						
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<b>125</b>	4130 - Aspen	Sapling Well	11.6	7	Immature	N/A	Stand was cut in late fall 2015; left all oak, cedar, and hemlock trees; also left green marked R/W pine sawlogs and pulp, A3 but with some sparser areas																																						
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<b>127</b>	310 - Herbaceous Openland	Nonstocked	1.8			Managed Opening	Maintained Opening																																						
<b>132</b>	4133 - Aspen, Mixed Pine	Sapling Well	2.0	12	Immature	N/A	Cut fall of 2010, left some oak for mast and some white pine for diversity																																						
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<b>133</b>	4130 - Aspen	Poletimber Well	44.0	60	51-80	N/A	Bigtooth aspen with some scattered red pine and oak supercanopy. Some pockets of quaking aspen. A few seasonal wet pockets. Quaking aspen starting to fall apart. Bigtooth aspen is okay yet but should regenerate entire stand now.																																						
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<b>134</b>	42290 - Natural Mixed Pine	Sawtimber Well	3.9	90	81-110	N/A	Mixed pine stand with some oak and aspen on north edge of Denton Creek Flooding. Narrow and long and extends into compartment to the west. Most of the oak is on the sw side. Retain for BMPs on flooding.																																																
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<b>135</b>	42110 - Planted Red Pine	Sawtimber Well	28.6	90	81-110	N/A	Large 89 year old red pine with 2-6" red maple and aspen sub-canopy. White pine, red maple and balsam fir understory.																																																
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<b>136</b>	6229 - Mixed lowland shrub	Nonstocked	25.2			No																																																	
<b>138</b>	4130 - Aspen	Poletimber Well	24.8	60	81-110	N/A	Mixed aspen stand with balsam fir. Scattered pine. A few wet areas.																																																
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<b>142</b>	6120 - Lowland Cedar	Poletimber Well	19.6	104	141-170	N/A	Free flowing stream with gradual sloping sides. The sides are dense cedar followed by maple and then other conifers. The area along the stream bed is more open with tag alder. The east branch of the stand at the north end is a seasonal draw that dumps into the stream. Deer activity is high. Leave for BMP's concerns.																																																
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<b>143</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	5.2	56	111-140	N/A	small stand of TA/WP/RP, was probably regenerated with the stand to the south, supercanopy RP with TA and WP poles in the u.s. trending towards 2 aged/all aged, small size stand with a high pine component on a pine site																																																			
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<b>144</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	57.6	94	81-110	N/A	Free flowing stream with moderately sloping banks. Where the stream is find many blowdowns and tag alder. The banks is heavy to pine and maple.																																																			
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<b>147</b>	42290 - Natural Mixed Pine	Sawtimber Well	6.8	102	81-110	N/A	The understory is about an even mix of balsam fir and white pine which together are creating a dense understory. The red pine is the main canopy with white pine as the mid-canopy. Thinned in Fall 2010 as part of a larger stand.																																																			
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<b>148</b>	42200 - Natural White Pine	Sawtimber Well	65.2	60	111-140	N/A	Southern portion if the stand has larger pine and higher stocking levels. The understory is a combination of fir and white pine together forming heavy densities. Some of the understory is almost polesize. There are numerous small aspen clones throughout the stand. Recommend holding the stand at least one more YOE interval and then remove the aspen and start thinning out the poor quality pine.																																																			
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<b>154</b>	42290 - Natural Mixed Pine	Sawtimber Well	32.3	77	81-110	N/A	The understory is a dense wall of fir with some white pine and even red pine lost in the mix. The predominate species is red pine followed by white pine and then junky maple. Couple options, could cut pockets by removing all overstory and contend with damage to understory or leave and in next rotation remove all species and replant 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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**155**      42110 - Planted Red Pine      Sawtimber Medium      20.5      63      81-110      N/A

Thinned in 2010. Nice red pine stand with moderate regeneration of white pine. Not ready for further thinning or final harvest yet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole/XLog	16		Balsam Fir	Low	Variable	Sapling
Red Pine	95	Log/Pole	12	63	White Pine	Medium	Variable	Sapling

**156**      42290 - Natural Mixed Pine      Sawtimber Medium      5.9      112      51-80      N/A

White and red pine overstory with a dense understory of balsam fir and white pine underneath. The central portion of the stand with more open canopy a large percentage of the saplings are bent over, broken and/or dead from a heavy snow in previous year. Best course is to keep the overstory for now to protect the current understory. Small acres and not worth doing anything with until the stands to the north are treated.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Log	12		White Pine	Medium	Variable	Sapling
Red Maple	23	Log/Pole	10		Balsam Fir	High	Variable	Sapling
Northern White Cedar	2	Pole	8					
Hemlock	2	Pole	8					
White Pine	38	Log/Pole/XLog	16	112				
Red Pine	30	Log/Pole/XLog	14					