



# Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71011

Entry Year 2023

Acreage: 3,164

County Roscommon

Management Area: Houghton Lake Wetlands

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**Stand Examiner:** Dale Ekdorn

## Legal Description:

T22N T04W Sections 16 - 20, 30, and 31

## Identified Planning Goals:

Vegetation management in the Houghton Lake Wetlands Management Area will provide timber 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 the next ten years will focus on balancing the age class distribution aspen. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected issues within the next decade are the need to continue to balance aspen age class distributions, an expected increase in recreation pressure, and invasive species encroachment.

## Soil and topography:

Surface soils include glacial outwash sand and gravel and postglacial alluvium peat and muck. Soils include Tawas-Leafriver mucks, Tawas-Lupton mucks, Deford Muck, Dawson-Loxley peat, and Rifle peat in the wetland areas of the compartment and Rubicon sand, Graycalm sand, Croswell sand, and Bergland sand in the upland portions. Topography ranges from rolling upland hills in the south portion to flat wetlands and bogs in the northern portions.

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

The compartment is a mostly solid block of state land. Adjacent ownership is a mix of private (east) and state (north, south, and west). Many small private parcels with both permanent and seasonal residences are in the Barney Lake/Snow Bowl Road area which lies within the central part of the compartment.

## Unique Natural Features:

There is documentation of bald eagles, osprey, and yellow rail nesting within the compartment and on state/private lands adjacent to the compartment. Portions of the Porter Ranch Northern Fen natural community are within the compartment.

## Archeological, Historical, and Cultural Features:

The northwest part of this compartment was ditched at one time to promote drainage (Nellsville Drain) in an extremely wet landscape.

## Special Management Designations or Considerations:

All state land in the compartment to the north of Barney Lake is within the Porter Ranch Wildlife Research Area.

## Watershed and Fisheries Considerations:

Nellsville Drain is in the northwest part of this compartment. Barney Lake (private lake) is within the compartment.

## Wildlife Habitat Considerations:

The compartment is located just north of Barney Lake and Snowbowl Road. There are extensive wet areas in the compartment with intermixed islands and "ridges" of aspen. 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 seven managed wildlife openings within the compartment. The best access to the openings is from the north on Bowman Trail.

## Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. Several active sand/gravel

pits exist within five miles of the compartment. The compartment consists of mostly low wetlands, and sand & gravel development potential may be limited. The small and abandoned Nellsville oil field partially overlaps the north end of the compartment. It is unlikely there will be additional new wells drilled within the compartment in the near future. There has been no well activity in the last 30 years, and there is currently no mineral leasing activity in the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

Access to the more upland portions of the compartment are good via seasonal county roads and forest roads. Interior sections which have wetter terrain are devoid of roads and are therefore inaccessible via vehicle.

**Survey Needs:**

None necessary at this time

**Recreational Facilities and Opportunities:**

Panther Drive on the west edge of the compartment and Sparrow Road/Co Rd 402 south of the compartment are also snowmobile trails 6/7. County roads in the compartment are popular with ORV's. Good overall vehicle access and proximity to populated areas make this compartment heavily used by hunters.

**Fire Protection:**

The majority of this compartment is state owned with some wildland-urban interface centered on the Snowbowl Road area. Much of this compartment is wetlands and most of the rest has a very high water table. The more upland areas of this compartment are made up of primarily hardwood cover types.

**Additional Compartment Information:**

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

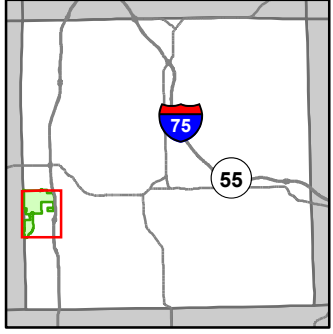
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

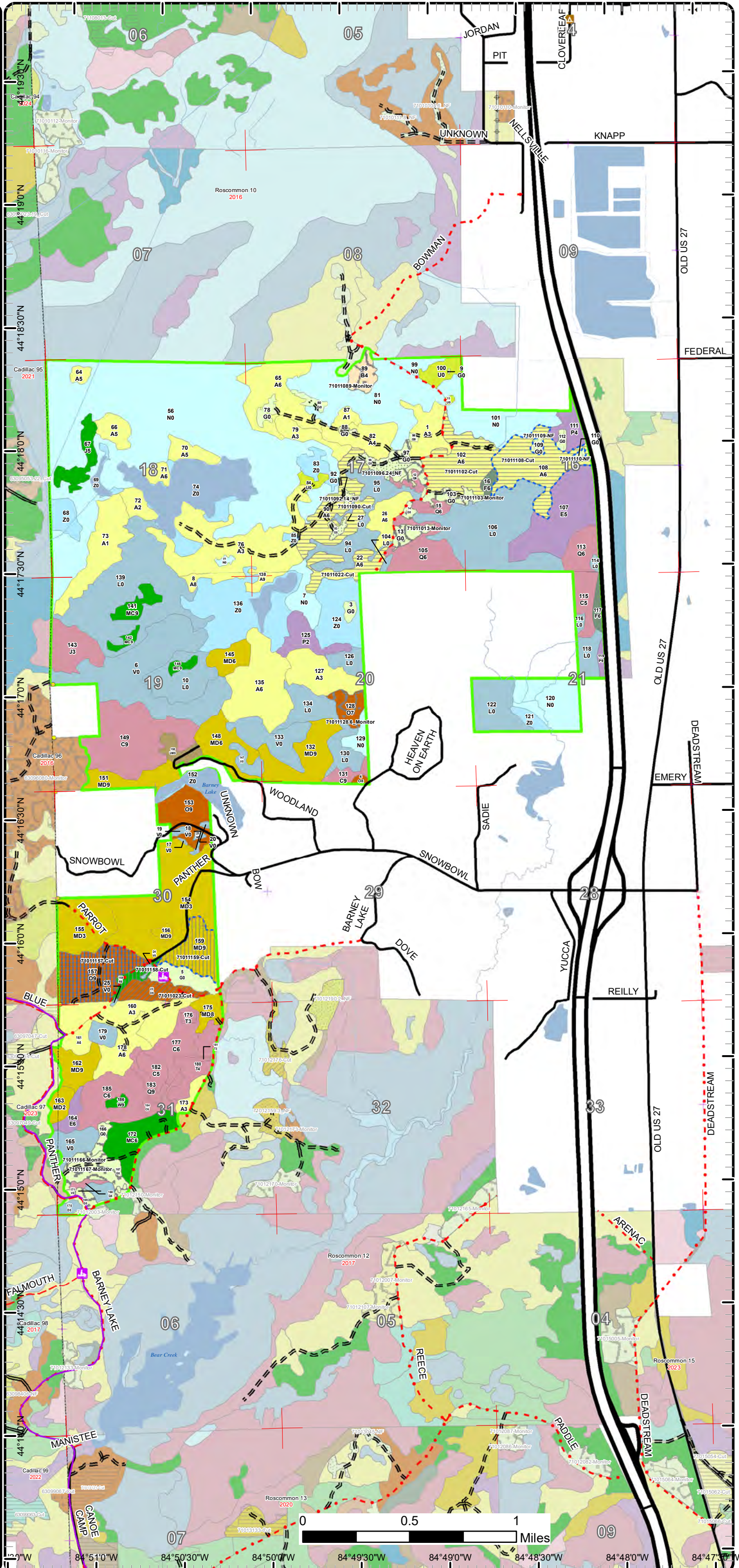
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 11  
 T22N, R04W, Sec. 16-21, 30-31  
 County: Roscommon  
 Unit: Roscommon  
 Mgmt Area: Houghton Lake Wetlands  
 YOE: 2023  
 Acres: 3164.3 GIS Calculated  
 Examiner: Dale Ekdorn  
 Map Revised: 4/15/2022  
 Map Phase: Post-Review

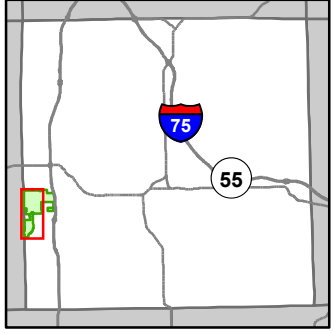


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State Highway
- == Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- Opening Maintenance
- Mowing
- 412 - Oak Types
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

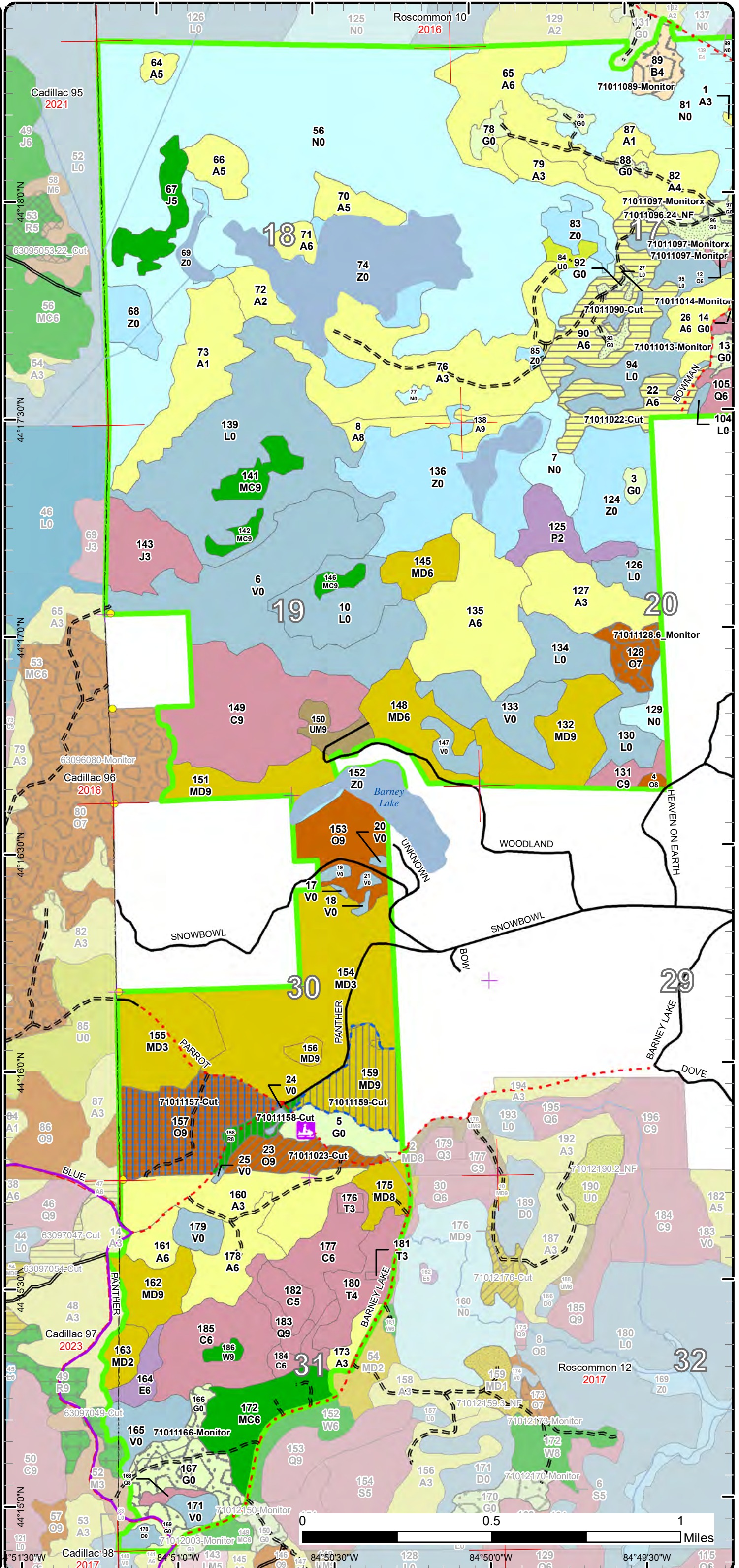


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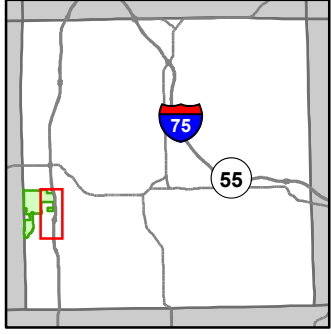


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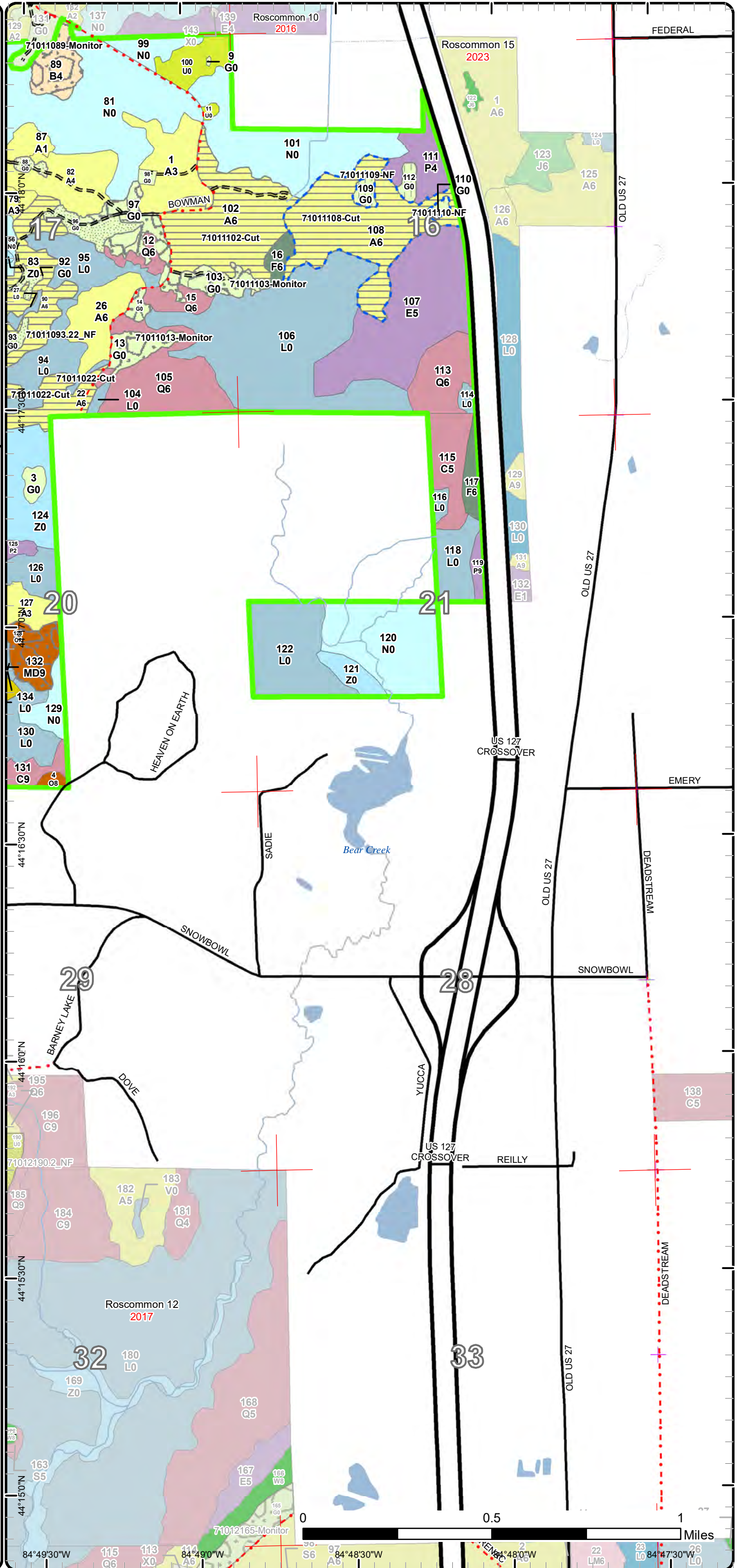


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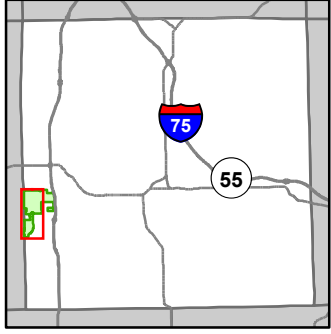


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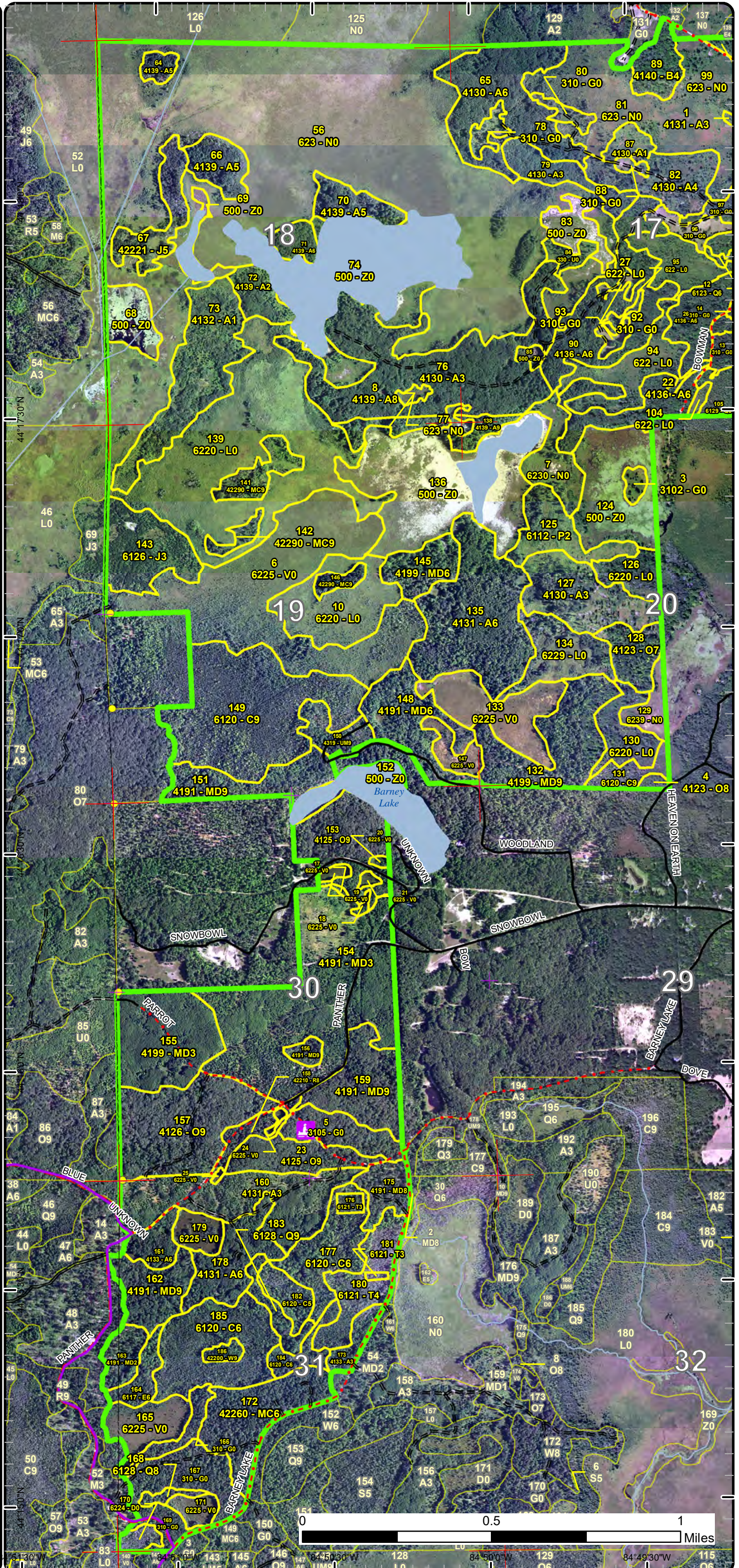


# Stand Boundary Map

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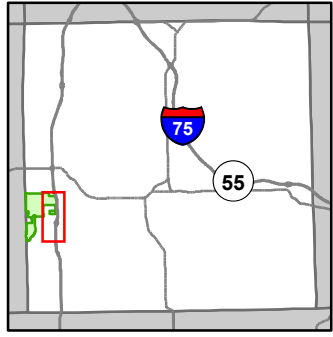


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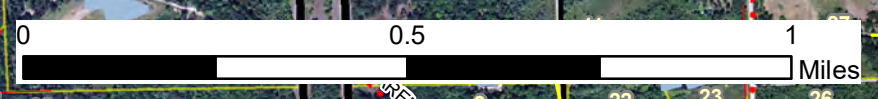
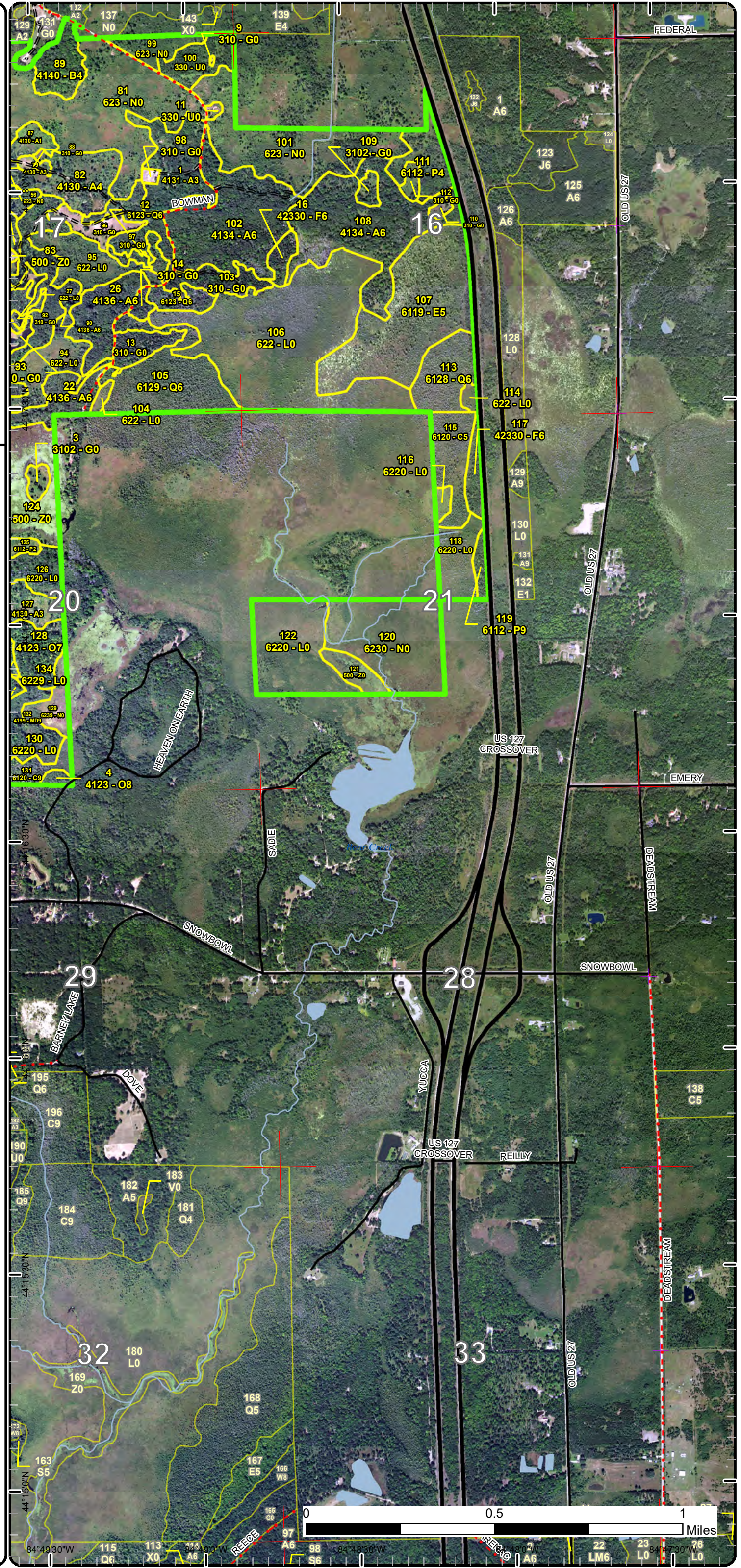


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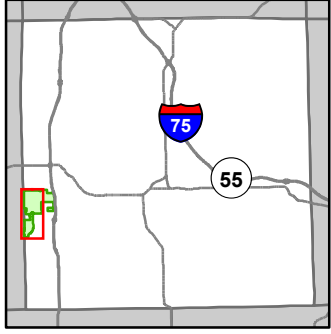
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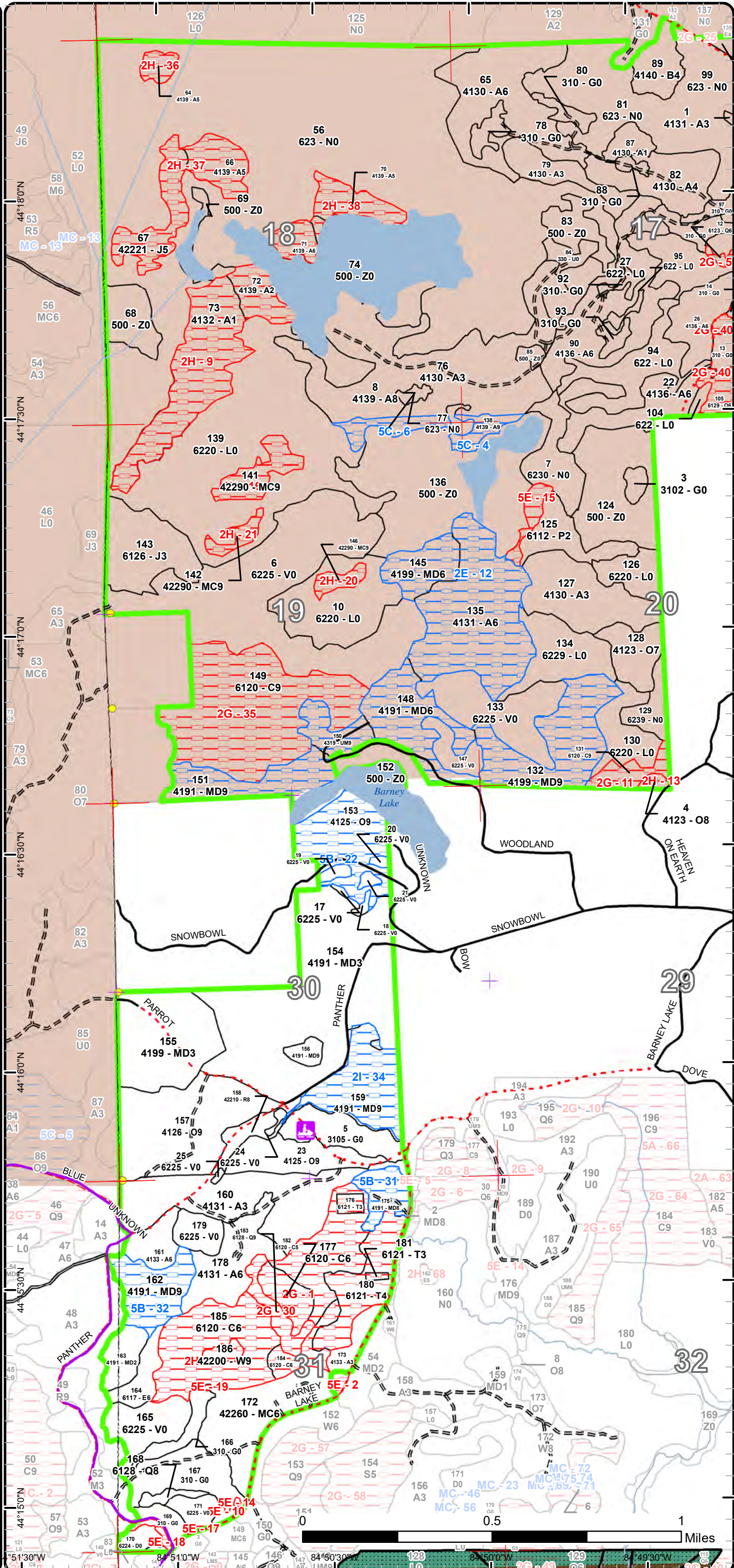
84°49'30" W 115 Q6 113 X0 316 A6 97 A6 98 S6 84°48'30" W 22 LM6 23 L0 26 L0 84°47'30" W

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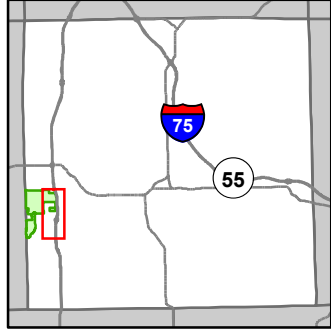
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- Compartment Boundary
- Available w/ Constraints
- 2E: Road needed
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Wildlife Management Areas
- Wildlife Research Areas
- Habitat Corridor



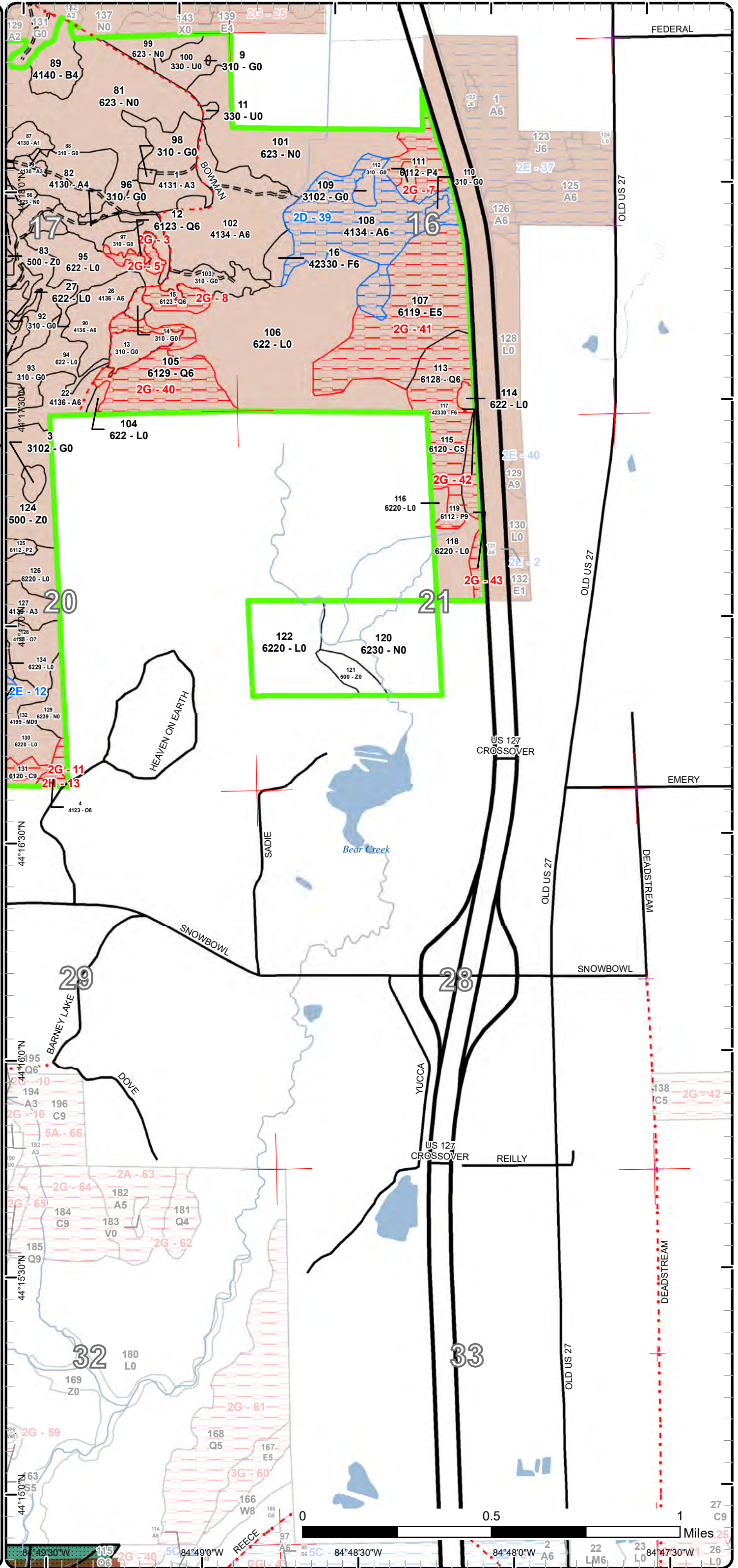


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- Compartment Boundary
- Available w/ Constraints  
 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- Unavailable  
 2G: Too wet (sensitive soils, does not include access issues)  
 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- SCA
- Wildlife Management Areas
- Wildlife Research Areas
- Habitat Corridor



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	31	20	220	47	297	17	0	13	0	18	0	0	0	0	0	0	0	663
Bog	176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	176
Cedar	0	0	0	0	0	0	0	0	24	17	0	40	0	84	16	0	0	0	181
Herbaceous Openland	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
Jack Pine	0	0	0	28	0	0	0	17	0	0	0	0	0	0	0	0	0	0	45
Low-Density Trees	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Aspen/Balsam Poplar	0	19	0	0	0	13	0	4	0	0	0	0	0	0	0	0	0	0	36
Lowland Conifers	0	0	0	0	0	0	0	10	41	0	21	0	0	0	0	0	0	0	72
Lowland Deciduous	0	0	0	0	0	0	8	0	0	61	0	0	0	0	0	0	0	0	69
Lowland Shrub	381	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	381
Marsh	619	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	619
Mixed Upland Deciduous	0	0	115	40	0	0	0	28	57	4	43	34	0	0	0	0	0	0	320
Natural Mixed Pines	0	0	0	0	0	33	0	4	0	0	11	4	0	0	0	0	0	0	52
Oak	0	0	0	0	0	0	0	0	0	30	33	0	0	0	0	50	0	0	113
Paper Birch	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Tamarack	0	0	0	0	0	2	1	0	0	22	0	0	0	0	0	0	0	0	25
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Upland Spruce/Fir	0	0	0	0	0	0	6	4	0	0	0	0	0	0	0	0	0	0	10
Water	231	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	231
White Pine	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
<b>Total</b>	<b>1546</b>	<b>50</b>	<b>135</b>	<b>288</b>	<b>47</b>	<b>345</b>	<b>36</b>	<b>39</b>	<b>83</b>	<b>122</b>	<b>135</b>	<b>148</b>	<b>41</b>	<b>84</b>	<b>16</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>3164</b>



## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2023

Acres of Harvest

Compartment 11  
Total Compartment Acres: 3,164

Commercial Harvest - 185  
Harvests with Site Condition - 81  
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	163	0	0	0	0	0	0	0	0	163
Mixed Upland Deciduous	0	0	0	0	28	0	0	0	0	28
Oak	0	0	0	50	0	18	0	0	0	68
Red Pine	0	0	0	0	7	0	0	0	0	7
<b>Total</b>	<b>163</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>35</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>266</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	266	0	0	0	0	0	89	0	21	376
Next Step	0	0	0	0	0	0	248	0	14	262
<b>Total</b>	<b>266</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>337</b>	<b>0</b>	<b>35</b>	<b>639</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

13	71011013-Monitor	7.9	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	42380 - Non Pine Upland Conifer, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> plant/seed jack pine next YOE if aspen and fir regeneration fails to develop into a fully stocked stand, monitor for natural regeneration during</p> <p><u>Specs:</u> normal inventory cycle</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of species to a fully stocked stand, plant/seed jack pine next YOE if aspen and spruce/fir regeneration fails to develop into a</p> <p><u>Regen:</u> fully stocked stand</p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</p>											
14	71011014-Monitor	2.3	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	42380 - Non Pine Upland Conifer, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> monitor for natural regeneration during normal inventory cycle</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of species to a fully stocked stand, plant/seed jack pine next YOE if aspen and spruce/fir regeneration fails to develop into a</p> <p><u>Regen:</u> fully stocked stand</p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</p>											
22	71011022-Cut	21.6	4136 - Aspen, Mixed Conifer	Poletimber Well	47	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest for Aspen Management, Buffer any wet edges and potholes, leave white oaks for mast, possible green-up concern with the</p> <p><u>Specs:</u> stand to the northeast, northwest arm may be cut-off depending on amount of water when stand is put up for sale, add drumming log and brush pile specs.</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> No retention due to narrow stand configuration</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	<b>23 71011023-Cut</b>	18.4	4125 - Black, N. Pin Oak	Sawtimber Well	108	111-140	Harvest	Low Thinning	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> thin to 90 SF favoring the best tree in place especially if white oak, remove suppressed pine also in the east part of the stand, remove oak with cat-faced stumps from old fire.</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> watch steeper terrain in parts of the stand</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
	<b>88 71011088.21_NF</b>	1.8	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, Porter Ranch 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 /2017</p>											
	<b>89 71011089-Monitor</b>	12.0	4140 - Other Upland Deciduous	Poletimber Poor	60	1-50	Monitoring	Natural Regen (Re-Inventory)	4137 - Aspen, Birch	Two-Aged	No
<p><u>Prescription</u> monitor for natural regeneration during normal inventory cycle</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of species to a fully stocked stand, plant/seed jack pine if regeneration fails</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</p>											
	<b>90 71011090-Cut</b>	40.8	4136 - Aspen, Mixed Conifer	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> final harvest for aspen management, possibly eliminate east part of stand with its numerous wet potholes, buffer "G" stands and any wet edges/potholes, leave white oak for mast, add drumming log and brush pile specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of aspen and other species to a fully stocked stand</p> <p><u>Regen:</u></p> <p><u>Other</u> leave retention as buffers along wet edges and potholes and/or by eliminating east part of stand</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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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92	71011092.14_ NF	2.5	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, Porter Ranch 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> 10/1 /2017</p>											

93	71011093.22_ NF	2.8	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, Porter Ranch Field 8.</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 /2017</p>											

96	71011096.24_ NF	7.2	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, Porter Ranch 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 /2017</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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97	71011097-Monitor	1.4	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	42380 - Non Pine Upland Conifer, Mixed Deciduous	Even-Aged	No
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Prescription monitor for natural regeneration during normal inventory cycle  
Specs:  
Next Step  
Treatments:  
Acceptable any combination of species to a fully stocked stand, plant/seed jack pine next YOY if aspen and spruce/fir regeneration fails to develop into a  
Regen: fully stocked stand  
Other Percent to Treat = 100%  
Comment:  
Site Condition  
Proposed Start Date: 10/1 /2030

97	71011097-Monitorx	10.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
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Prescription monitor for natural regeneration during normal inventory cycle  
Specs:  
Next Step  
Treatments:  
Acceptable any combination of species to a fully stocked stand  
Regen:  
Other Percent to Treat = 100%  
Comment:  
Site Condition  
Proposed Start Date: 10/1 /2030

102	71011102-Cut	47.8	4134 - Aspen, Spruce/Fir	Poletimber Well	47		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription final harvest stand for aspen management, buffer any wet edges and leave out any wet potholes, leave oak, especially white oak for mast,  
Specs: may be a greenup concern on the south and west sides, add drumming log and brush pile specs.  
Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:  
Acceptable Any combination of aspen and other species to a fully stocked stand  
Regen:  
Other  
Comment:  
Site Condition  
Proposed Start Date: 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>103 71011103-Monitor</b>	9.8	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	42380 - Non Pine Upland Conifer, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> monitor for natural regeneration during normal inventory cycle</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of species to a fully stocked stand, plant/seed jack pine next YOE if aspen and spruce/fir regeneration fails to develop into a fully stocked stand</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</p>										
<b>108 71011108-Cut</b>	53.0	4134 - Aspen, Spruce/Fir	Poletimber Well	47	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> leave part or all of the south arm, east arms around stand #110 and the west edge (buffer along drain) as retention, leave all oak for hard mast and diversity, buffer old grassy openings especially if WD treats/upgrades them.</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, mixed deciduous to moderate and/of full stocking</p> <p><u>Regen:</u></p> <p><u>Other</u> Notify WLD when the bridge is in place so they can plan to use the bridge for non forest opening treatments in stands 109, 110, and 112</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>109 71011109-NF</b>	2.7	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Porter Ranch Field 9.</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> Currently no access.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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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110	71011110-NF	1.5	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
<p><u>Prescription</u> Porter Ranch Field 11.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u> Currently no access to field.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										

112	71011112-NF	2.5	310 - Herbaceous Openland	Nonstocked	0		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland	No
<p><u>Prescription</u> Porter Ranch Field 10.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u> Currently no access.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										

128	71011128.6_M onitor	13.0	4123 - Red Oak	Sawtimber Poor	103	51-80	Monitoring	Natural Regen (Re-Inventory)	4125 - Black, N. Pin Oak	Uneven-Aged	No
<p><u>Prescription</u> monitor for natural regeneration during normal inventory cycle  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> oak, aspen and hardwood species at fully stocked levels.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2030</p>											

157	71011157-Cut	49.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	140	51-80	Harvest	Seed Tree	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Recommend seed tree or heavy shelterwood, 4" cut to save what understory there is, leave white oak especially to a target of 20 SF and  <u>Specs:</u> leave all red/white pine to leave a conifer seed source in the stand.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> any combination of oak and other species to a fully stocked stand  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</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>158</b>	<b>71011158-Cut</b>	7.1	42210 - Natural Red Pine	Sawtimber Medium	80	51-80	Harvest	Shelterwood	4211 - Planted Red Pine	Even-Aged	No
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Prescription Shelterwood leaving a mix of red pine and oak residual to approx 20-40 SF. No Retention due to stand size and configuration and desire to expand into adjacent stands.. Buffer low wet areas around the bogs on the north side and south side of the stand or leave these areas out of the sale.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mix of red pine and other hardwoods, especially oak

Regen:

Other Expand into surrounding stands where appropriate and feasible, shelterwood the small area north of Parrot Road with Stand to the east.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>159</b>	<b>71011159-Cut</b>	27.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	108	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription open up canopy with a shelterwood to encourage white pine, oak, and red maple for a future mixed upland stand. Stands to the north and south have been recently clearcut. Favor white oak to leave as well as healthy well crowned red oaks for seed, leave most or all red/white pines. aim for a target residual of 40 SF, use a 4 inch cut to save as much understorey as possible.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any combination of oak and other species to a fully stocked stand, probably won't need it but interplant red pine as alternate regeneration if necessary.

Regen:

Other Will probably need a survey

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022

<b>166</b>	<b>71011166-Monitor</b>	6.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription monitor for natural regeneration during normal inventory cycle

Specs:

Next Step

Treatments:

Acceptable Any combination of pine and hardwood species to a fully stocked stand

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>167</b>	<b>71011167-Monitor</b>	20.6	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4132 - Aspen, Jack Pine	Even-Aged	No
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Prescription monitor for natural regeneration during normal inventory cycle

Specs:

Next Step

Treatments:

Acceptable any combination of aspen and other species to a fully stocked stand

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
169 71011169-Monitor	4.8	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> monitor for natural regeneration during normal inventory cycle</p> <p><u>Specs:</u></p> <p><u>Next Step</u></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> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</p>										

Total Treatment Acreage Proposed: **376.4**

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdom : Examiner

Compartment: 11

Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		2D	2E	2I	5B	5C	2G	2H	5E
663	447	<b>126</b>	89	Aspen	<b>53</b>	<b>61</b>			<b>13</b>		89	
176	176	<b>0</b>	0	Bog			<b>0</b>			0		0
181	0	<b>0</b>	180	Cedar						180		
118	117	<b>0</b>	1	Herbaceous Openland						0		1
45	28	<b>0</b>	17	Jack Pine							17	
17	17	<b>0</b>	0	Low-Density Trees								
36	14	<b>0</b>	22	Lowland Aspen/Balsam Poplar						17		5
72	3	<b>0</b>	69	Lowland Conifers						69		
69	8	<b>0</b>	61	Lowland Deciduous						61		
381	381	<b>0</b>	0	Lowland Shrub						0	0	
618	618	<b>0</b>	0	Marsh							0	
320	161	<b>159</b>	0	Mixed Upland Deciduous		<b>103</b>	<b>27</b>	<b>30</b>		0		
52	33	<b>0</b>	19	Natural Mixed Pines							19	
113	81	<b>30</b>	2	Oak				<b>30</b>			2	
12	12	<b>0</b>	0	Paper Birch								
7	7	<b>0</b>	0	Red Pine			<b>0</b>					
25	0	<b>0</b>	25	Tamarack						25		
4	4	<b>0</b>	0	Treed Bog								
10	0	<b>10</b>	0	Upland Mixed Forest		<b>10</b>						
10	4	<b>0</b>	6	Upland Spruce/Fir						6		
231	230	<b>0</b>	1	Water							1	0
3	0	<b>0</b>	3	White Pine							3	
3,164	2,342	<b>326</b>	497	Total Forested Acres	<b>53</b>	<b>174</b>	<b>27</b>	<b>60</b>	<b>13</b>	359	132	6
	74%	<b>10%</b>	16%	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	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	106	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdorn : Examiner

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2	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> retention left during 2010 cut							
3	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	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>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	55	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Available	2E: Road needed	174	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access through Missaukee County?							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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14	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 11

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21	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	30	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	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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Dale Ekdorn : Examiner

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34	Available	2I: Survey needed	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	76	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Muck Soils							
36	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	53	2E: Road needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Pending site visit on 7/8/2021 to determine access needs							

## Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 11

Dale Ekdor : Examiner

Year of Entry: 2023

40	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	79	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
43	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	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
<b>Comments</b>				



### Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
1	4131 - Aspen, Oak	Sapling Well	21.8	29	Immature	N/A	A3 stand with numerous scattered overstory oaks, cut 1993 and left oak SL's, good regeneration of aspen and red maple in most areas, mix of BTA and QA, some spots are approaching pole-size despite high BA of oak residual. A few small areas are heavy to oak residual and these areas have little aspen regeneration. Should be A6 next YOE.																																										
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3	3102 - Grass	Nonstocked	3.0			No	scattered trees, surrounded by wet terrain/water																																										
4	4123 - Red Oak	Sawtimber Medium	1.8	103	81-110	N/A	Isolated island of oak that is not accessible to harvest.																																										
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5	3105 - Mixed Upland Herbaceous	Nonstocked	16.2	0		413 - Aspen	Salvage cut in fall 2019 after a major blowdown event in 2018. Needs to grow some more to be a forested stand.																																										
6	6225 - Bog	Nonstocked	103.6			No	bog transitioning to treed bog																																										
7	6230 - Cattail	Nonstocked	15.8			No	cat-tails, lily pads, parts open water																																										
8	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	7.1	71	81-110	N/A	was a nice aspen stand with red maple but starting to break up due to old age and beaver activity, parts are wet and cut by at least 1 main drain, narrow and long, leftover from stand to the north as it was in a different compartment before.																																										
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9	310 - Herbaceous Openland	Nonstocked	0.2	50	1-50	No	more open than surrounding stand, possible old well site																																										
10	6220 - Alder/willow	Nonstocked	31.7			No																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
11	330 - Low-Density Trees	Nonstocked	0.9			No	old well site plugged 12/18/1967, spots of high ground with sparse A/M/O trees and other spots of lowland brush																																						
12	6123 - Lowland Fir	Poletimber Well	4.1	77	51-80	N/A	inoperable part of Bowman Cuts sale, mostly balsam fir but numerous scattered black spruce, red maple, and aspen. Numerous wetter potholes and drains which are heavy to tag alder,																																						
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13	310 - Herbaceous Openland	Nonstocked	7.9	0	Unspecified	429 - Mixed Upland Conifers	Archived 2018 YOE Comments - 60-70% of the stand appears operable, east edge gets wet as it grades into the lowland shrub/swamp complex to the east, mostly balsam fir but numerous scattered black spruce, red maple, and aspen. Numerous wetter potholes and drains which are heavy to tag alder, needs to be regenerated but there is probably not enough viable aspen to get good aspen sprouting if cut, recommend leaving scattered tops for a balsam fir seed source and you will get some e-sprouting of aspen and other hardwoods, plant/seed jack pine if fir/aspen doesn't regenerate; 2023 YOE Comments - cut Fall 2020 and left scattered tops for seed source																																						
14	310 - Herbaceous Openland	Nonstocked	2.3	0	Unspecified	429 - Mixed Upland Conifers	Archived 2018 YOE Comments - 60-70% of the stand appears operable, east edge gets wet as it grades into the lowland shrub/swamp complex to the east, mostly balsam fir but numerous scattered black spruce, red maple, and aspen. Numerous wetter potholes and drains which are heavy to tag alder, needs to be regenerated but there is probably not enough viable aspen to get good aspen sprouting if cut, recommend leaving scattered tops for a balsam fir seed source and you will get some e-sprouting of aspen and other hardwoods, plant/seed jack pine if fir/aspen doesn't regenerate; 2023 YOE Comments - Cut Fall 2020 and left tops scattered for seed source																																						
15	6123 - Lowland Fir	Poletimber Well	6.1	77	51-80	N/A	in-operable part of stand being treated in Bowman Cuts, south and east edge gets very wet as it grades into the lowland shrub/swamp complex to the southeast, mostly balsam fir but numerous scattered black spruce, red maple, and aspen. Numerous wetter potholes and drains which are heavy to tag alder																																						
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16	42330 - Upland Fir	Poletimber Well	4.4	77	51-80	N/A	not treated this YOE, cut off by drainage from stand to the southwest, some wet spots but probably operable, possibly treat all or part of this stand with surrounding A6 stands next YOE or treat this entry if those stands are treated now.																																						
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22	4136 - Aspen, Mixed Conifer	Poletimber Well	21.6	47	51-80	N/A	Decent quality quaking aspen stand (A6) with a few big tooth aspen on the drier spots, scattered red maple and pine. Trembling aspen starting to decline. Some areas have balsam fir component in the understory. Some pin cherry and red maple in understory. Large area of lowland brush in the center of the stand thats hard to delineate with just imagery. Some small open areas throughout stand also. Hold or cut parts as needed per the MA analysis.																																																								
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23	4125 - Black, N. Pin Oak	Sawtimber Well	18.4	108	111-140	N/A	Stand is a ridge running east to west that then slopes down on the north side, part was burned in the late 90.s or early 2000's, unburned part (mostly the slope on the north side has a red maple understory, burned part on the top of the ridge has a fairly open understory, most of the stand is oak with scattered red maple except for the east end which is more of a mix of red/white oak and red/white pine with an understory of white pine with some white oak																																																								
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24	6225 - Bog	Nonstocked	0.9	0		No																																																									
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<b>26</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	17.4	47	51-80	N/A	Decent quality quaking aspen stand (A6) with a few big tooth aspen on the drier spots, scattered red maple. Some areas have heavy almost pole-size balsam fir component in the understory. Some pin cherry and red maple in understory. At least 2 low, wet potholes in west central part of stand. Hold or cut parts as needed per the MA analysis																																																											
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<b>27</b>	622 - Lowland Shrub	Nonstocked	1.6	0		No	Lowland Brush with scattered aspen																																																											
<b>56</b>	623 - Emergent Wetland	Nonstocked	409.8		Unspecified	No																																																												
<b>64</b>	4139 - Aspen, Mixed Deciduous	Poletimber Medium	4.3	52	Unspecified	N/A	small aspen island surrounded by marsh, no access																																																											
<b>65</b>	4130 - Aspen	Poletimber Well	46.8	30	Immature	N/A	solid A6, mostly quaking aspen but some big tooth aspen on the higher/drier spots, all aspen growing well, terrain is upland but the water table is close to the surface so any depressions are wet with tag alder, look at for cutting next YOE																																																											
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<b>66</b>	4139 - Aspen, Mixed Deciduous	Poletimber Medium	12.5	52	1-50	N/A	surrounded by marsh, no access																																																											
<b>67</b>	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	17.1	62		N/A	natural jack pine stand surrounded by marsh, no access																																																											
<b>68</b>	500 - Water	Nonstocked	13.3			No																																																												
<b>69</b>	500 - Water	Nonstocked	6.1			No																																																												
<b>70</b>	4139 - Aspen, Mixed Deciduous	Poletimber Medium	11.4	92	1-50	N/A	aspen stand surrounded by marsh, no access																																																											
<b>71</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.7	95		N/A	aspen stand surrounded by marsh, previous examiner for 2008 YOE inventory walked across beaver dam to inventory																																																											





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72	4139 - Aspen, Mixed Deciduous	Sapling Medium	11.3	22	Immature	N/A	Some aspen, red maple and a few oaks, Some areas are under-stocked, access is extremely poor, had to freeze a road across 2 L-types and rest of road is poor with many low potholes, access for the timber sale in fall of 2000 was thru Missaukee County into Roscommon County to the Barney Lake area.																																																
73	4132 - Aspen, Jack Pine	Sapling Poor	43.4	22	Immature	N/A	Low stocked stand, Some aspen regen and some spots with jack pine regeneration,,many areas are under-stocked, especially the south end of the stand which gets progressively wetter the farther south you go. . Very wet site and access is extremely poor, had to freeze a road across 2 L-types and rest of road is poor with many low potholes, access for the timber sale in fall of 2000 was thru Missaukee County into Roscommon County to the Barney Lake area , good wildlife stand though!																																																
74	500 - Water	Nonstocked	60.3			No	OPIC - FMD: Old beaver pond																																																
76	4130 - Aspen	Sapling Well	89.6	29	Immature	N/A	nice young aspen stand transitioning to A6, numerous small, wet potholes but majority of the stand is upland, some areas on the west side are heavy to white pine, overall there is a fairly equal mix of BTA/QA. mostly A3 but a few parts are A6																																																
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77	623 - Emergent Wetland	Nonstocked	1.9			No																																																	
78	310 - Herbaceous Openland	Nonstocked	4.8			No	non-maintained grassy opening with some lower/wetter spots, drier part was used as a landing when surrounding stand was cut in 1992.																																																
79	4130 - Aspen	Sapling Well	14.3	13	Immature	N/A	Cut Dec. 2008, nice A3, scattered low potholes with tag alder																																																
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80	310 - Herbaceous Openland	Nonstocked	3.9			No	Old maintained opening, grass and ferns encroaching with some pin cherry and aspen also, tag alder in the scattered wet potholes.																																																
81	623 - Emergent Wetland	Nonstocked	88.1			No	Emergent Marsh with spots of "L"																																																



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<b>82</b>	4130 - Aspen	Poletimber Poor	23.2	47		N/A	upland is A4/5, lowland areas are bog or lowland brush, records indicate probably regenerated from KG blading back in the early to mid 1970's and did not regenerate too well, reminds me of Gladwin County trembling aspen stand with hypoxylon canker on a lot of the oldest aspen																																																												
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<b>83</b>	500 - Water	Nonstocked	10.7			No	beaver flooding?																																																												
<b>84</b>	330 - Low-Density Trees	Nonstocked	4.5	0		No	Stand was cut in 1993 with stand to the south, did not regenerate well, parts are grassy opening and parts are low density trees (both conifers and deciduous), beaver activity on the north edge, this is a good spot to leave an opening for use by wildlife																																																												
<b>85</b>	500 - Water	Nonstocked	2.1	0		No	small wet pothole with beavers																																																												
<b>87</b>	4130 - Aspen	Sapling Poor	5.6	13	Immature	N/A	cut Dec. 2008 with Stand #21, did not regenerate well except on higher ground areas, scattered aspen and red maple saplings with pin cherry or tag alder on the rest of the stand, maybe plant jack pine in barer areas?																																																												
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<b>88</b>	310 - Herbaceous Openland	Nonstocked	1.8			Managed Opening	old well site, plugged on 5/25/1983, now a managed Opening																																																												
<b>89</b>	4140 - Other Upland Deciduous	Poletimber Poor	12.0	60	1-50	N/A	Archived Comments from 2016 YOE - Fairly equal mix of aspen and birch with scattered maple and oak, aspen is older than the birch and is starting to decline, north end is heavy to white pine, needs to be treated to regenerate the older aspen and red maple; 2023 YOE Comments - cut Fall 2020 but left some birch and oak (approx 20 SF) for seed/mast, feature whatever understory regenerates after 10 years.																																																												
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<b>90</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	40.8	47	51-80	N/A	Decent quality quaking aspen stand (A6) with a few big tooth aspen on the drier spots, scattered red maple. Some areas have balsam fir component in the understory. Some pin cherry and red maple in understory. East part of stand has a lot of wet potholes. Hold or cut parts as needed per the MA analysis																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
92	310 - Herbaceous Openland	Nonstocked	2.5			Managed Opening	MAINTAINED OPENING.
93	310 - Herbaceous Openland	Nonstocked	2.8			Managed Opening	MAINTAINED OPENING.
94	622 - Lowland Shrub	Nonstocked	23.5			No	
95	622 - Lowland Shrub	Nonstocked	16.4			No	
96	310 - Herbaceous Openland	Nonstocked	7.2			Managed Opening	MAINTAINED OPENING.
97	310 - Herbaceous Openland	Nonstocked	12.7	0	Unspecified	413 - Aspen	Archived comments from 2018 YOE - Decent quality quaking aspen stand with a few big tooth aspen and red maple. Some areas have balsam fir component in the understory. Some pin cherry and red maple in understory. Part of Stand #16 last YOE, mostly upland except for a few wet potholes, cut or hold as needed per MA analysis and to provide an upland staging area if Stand #17 is cut; 2023 YOE Comments - cut Fall 2020 but left all oak.
98	310 - Herbaceous Openland	Nonstocked	1.1				Directional drill well site, sand in middle by pump, rest is grass
99	623 - Emergent Wetland	Nonstocked	7.8			No	Emergent Marsh and lowland shrub, area of higher ground on west end with scattered A/M/O
100	330 - Low-Density Trees	Nonstocked	11.3	50	1-50	No	lots of almost pole-size pin cherry, parts filling in with aspen and red maple saps/poles, variable terrain with wetter pockets of lowland brush
101	623 - Emergent Wetland	Nonstocked	46.2			No	marsh with spots of "L" and spots of high ground with sparse A/M/O trees
102	4134 - Aspen, Spruce/Fir	Poletimber Well	47.9	47		N/A	A6 which is just past pole size in most spots with some spots A6 with some log trees, east and southern part are lower and wetter with more red maple/tag alder, most of stand is operable given the right conditions, SW corner of stand has a small opening with an ancient plugged well, hold or cut now if needed for MA plan.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Pole/Sapling	7	47
Red Maple	20	Pole	6	
Black/Red (Hybrid) Oak	5	Log/XLog	14	
Black Spruce	8	Pole/Sapling	5	
White Pine	2	Log	12	
Balsam Fir	15	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Pin Cherry	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
103	310 - Herbaceous Openland	Nonstocked	9.8	0	Unspecified	429 - Mixed Upland Conifers	Archived 2018 YOE Comments - 60-70% of the stand appears operable, east edge gets wet as it grades into the lowland shrub/swamp complex to the east, mostly balsam fir but numerous scattered black spruce, red maple, and aspen. Numerous wetter potholes and drains which are heavy to tag alder, needs to be regenerated but there is probably not enough viable aspen to get good aspen sprouting if cut, recommend leaving scattered tops for a balsam fir seed source and you will get some e-sprouting of aspen and other hardwoods, plant/seed jack pine if fir/aspen, doesn't regenerate; 2023 YOE Comments - cut fall 2020 and left tops for seed source																																																											
104	622 - Lowland Shrub	Nonstocked	1.6	0		No	OIPC - FMD: Decent quality quaking aspen stand with a few big tooth aspen and red maple. Some areas have balsam fir component in the understory. Some pin cherry and red maple in understory.																																																											
105	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	33.7	87		N/A	low/wet stand of swamp conifers, not operable due to the wet terrain and Tawas-Lupton muck soil																																																											
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106	622 - Lowland Shrub	Nonstocked	94.3			No																																																												
107	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	60.9	92	51-80	N/A	OIPC Comment: ABANDON ALL HOPE ALL YE WHO ENTER HERE! Stand is a very wet lowland deciduous stand, not commercially operable and very difficult access, black ash and balsam poplar are slowly dropping out of this stand and red maple is taking over, heavy tag alder understory thru-out stand along with areas of cat-tails, lots of blow-down in spots																																																											
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108	4134 - Aspen, Spruce/Fir	Poletimber Well	53.0	47	Unspecified	N/A	Access is cut off by drainage so will need to use a bridge or culvert to access if cut, stand is just at pole-size (A6), most of this stand is operable given the right conditions but the south and north parts are slightly lower and wetter than the central portion, Cut or hold per MA analysis, WD has expressed interest in restoring the "G" stands embedded within this stand which are old maintained openings																																																											
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109	3102 - Grass	Nonstocked	2.7			Managed Opening	old maintained opening, currently no access w/o bridge or culvert																																																											



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110	310 - Herbaceous Openland	Nonstocked	1.5			Managed Opening	old maintained opening, no access w/o bridge or culvert																																		
111	6112 - Lowland Aspen	Poletimber Poor	13.4	47	1-50	N/A	drier parts of this stand were roller-chopped in the 1970's but the stand did not regenerate to a fully stocked condition, there are a few small aspen clones in the drier parts on the south end of the stand, the rest of the stand is wetter with scattered aspen, red maple, and balsam fir, many of the wettest spots are tag alder swales																																		
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112	310 - Herbaceous Openland	Nonstocked	2.5	0		No	old maintained opening, currently no access w/o bridge or culvert																																		
113	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.6	102	51-80	N/A	OPIC Comment: ABANDON ALL HOPE ALL YE WHO ENTER HERE! Stand is a very wet lowland conifer stand with lots of tag alder in the understory, hardwoods are dropping out, lots of blowdown																																		
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114	622 - Lowland Shrub	Nonstocked	1.9	0		No	OPIC - FMD: ABANDON ALL HOPE ALL YE WHO ENTER HERE!																																		
115	6120 - Lowland Cedar	Poletimber Medium	16.4	136	51-80	N/A	Trace paper birch and elm.																																		
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116	6220 - Alder/willow	Nonstocked	2.2			No																																			
117	42330 - Upland Fir	Poletimber Well	5.9	61		N/A																																			
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<b>119</b>	6112 - Lowland Aspen	Sawtimber Well	3.6	61		N/A	small, narrow, and wet stand up against US-127 freeway fence, no good access and no dry place for a landing																																														
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<b>120</b>	6230 - Cattail	Nonstocked	40.7			No																																															
<b>121</b>	500 - Water	Nonstocked	6.4			No																																															
<b>122</b>	6220 - Alder/willow	Nonstocked	33.2			No																																															
<b>124</b>	500 - Water	Nonstocked	36.8			No	Patches of open water and alder.																																														
<b>125</b>	6112 - Lowland Aspen	Sapling Medium	19.0	8	Immature	N/A	cut in the winter of 13-14, upland parts are solid A3, lowland parts are mostly scattered red maple with tag alder.																																														
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<b>126</b>	6220 - Alder/willow	Nonstocked	10.7			No																																															
<b>127</b>	4130 - Aspen	Sapling Well	31.0	8	Immature	N/A	Cut in the winter of 13-14, excellent aspen regeneration, left scattered oak for mast																																														
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<b>128</b>	4123 - Red Oak	Sawtimber Poor	13.3	103	51-80	N/A	Cut in the winter of 13, 14, some oak starting but it's mostly green ash, red maple and aspen regeneration. Look at next YOE to close out regeneration check.																																														
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<b>129</b>	6239 - Mixed Emergent Wetland	Nonstocked	8.1			No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**130** 6220 - Alder/willow Nonstocked 14.4 No

**131** 6120 - Lowland Cedar Sawtimber Well 7.6 126 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	11		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	15	Pole/Log	8					
Northern White Cedar	70	Log/Pole	11	126				

**132** 4199 - Other Mixed Upland Deciduous Sawtimber Well 37.4 85 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	3	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Jack Pine	4	Pole/Log	8		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Red Maple	20	Log/Pole	11		White Pine	Low	Variable	Sapling
White Oak	5	Log/Pole	12		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Paper Birch	3	Log/Pole	11		Jack Pine	Low	Variable	Sapling
Quaking Aspen	20	Log/Pole	11					
Bigtooth Aspen	15	Sapling/Pole	4	32				
Black/Red (Hybrid) Oak	30	Log	15	85				

Jack pine poles/saplings in southeast corner. Oak and Red maple sawlogs overtop younger aspen and red maple. Red maple sub-canopy dense in areas. BTA understory almost polesize in spots. Looks like they took out most aspen and some red maple in mid 80s to mid 90s but could not find any record of it. Recommend holding at least 10 years until aspen/red maple understory is merchantable before treating again.

**133** 6225 - Bog Nonstocked 28.7 No

**134** 6229 - Mixed lowland shrub Nonstocked 21.5 No pockets of trees as well as pockets of standing water

**135** 4131 - Aspen, Oak Poletimber Well 60.7 41 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	12		White Pine	Low	Variable	Sapling
Bigtooth Aspen	50	Sapling/Pole/Log	4	41	Balsam Fir	Low	Variable	Sapling
Black/Red (Hybrid) Oak	20	Log	14	85				
White Oak	5	Log/Pole	13					
Paper Birch	5	Pole/Log	8					

Looks like aspen was removed maybe 40 years ago. could not find cut records. red maple and oak sawlog scattered with good aspen pole class developing underneath. a few scattered areas with aspen sawlogs that are more heavy to oak. Several vernal ponds in north end of stand. Hold 10 years or until aspen gets more merchantable.

**136** 500 - Water Nonstocked 82.3 No water with some parts having cat-tails or tag alder or floating vegetation.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
<b>138</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	5.6	71	81-110	N/A	was a nice aspen stand with red maple but starting to break up due to old age and beaver activity, , parts are wet and cut by at least 1 main drain, leftover from stand to the north as it was in a different compartment before.																																																								
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<b>139</b>	6220 - Alder/willow	Nonstocked	114.7			No	B.W. Comment - 3/4 acre pocket of phragmites in central part of stand.																																																								
<b>141</b>	42290 - Natural Mixed Pine	Sawtimber Well	11.2	102	81-110	N/A	Island surrounded by wet terrain, BA is estimate																																																								
<b>142</b>	42290 - Natural Mixed Pine	Sawtimber Well	4.0	72	111-140	N/A	Island surrounded by wet terrain, BA is estimate																																																								
<b>143</b>	6126 - Lowland Jack Pine	Sapling Well	27.6	22	Immature	N/A	Looks like this was cut with Stand 69 in Missaukee County in 2000, looks like they froze a road in from the south from the aerial imagery but there is also a road going out to the north as they cut Stand 72 and 73 to the north with this stand.																																																								
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<b>145</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	14.6	103	81-110	N/A	upland areas with open understory & large canopy oak and maple, these areas are the oldest. Other areas lower terrain with younger polesize maple and Aspen, scattered white pine in spots. some vernal pond areas within stand. all species growing well, hold 10 years until aspen and maple are more merchantable.																																																								
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<b>146</b>	42290 - Natural Mixed Pine	Sawtimber Well	4.1	112	141-170	N/A	Island surrounded by wet terrain, BA is estimate																																																								
<b>147</b>	6225 - Bog	Nonstocked	7.4			No																																																									





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148	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	27.9	71	51-80	N/A	Low basal area of aspen and mixed maple/conifer poles, lots of vernal ponds in stand, converting to some sort of maple conifer mix. Hold off on any treatments for now.																																																													
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150	4319 - Mixed Upland Forest	Sawtimber Well	10.4	51	81-110	N/A	Oak on hilltops. Red maple sub-canopy dense in east part, very little in west. lots of small vernal ponds so probably not worth cutting due to buffer requirements on vernal ponds.																																																													
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151	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	22.7	118	51-80	N/A	Canopy species and composition is variable. Heavy white pine/balsam fir understory with some hardwoods, best to let stand convert to conifers on its own.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**153** 4125 - Black, N. Pin Oak Sawtimber Well 30.3 95 51-80 N/A Thinned in late summer of 2017 by Dankert F.P.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	10	Log/Pole/XLog	14		White Pine	Medium	Variable	Sapling
White Pine	10	Pole/Log	9		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Pine	5	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Red Maple	15	Log/Pole	12					
Black/Red (Hybrid) Oak	60	Log/Pole/XLog	15	95				

**154** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 105.6 18 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	20	Sapling	1		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Pine	15	Sapling/Pole	2					
White Pine	7	Pole/Sapling	6					
Red Maple	25	Sapling	1					
Bigtooth Aspen	28	Sapling	1	18				
White Oak	5	Sapling	1					

**155** 4199 - Other Mixed Upland Deciduous Sapling Well 40.2 28 Immature N/A aspen almost pole size already, rest of species are slower growing

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling	2		White Oak	Low	Variable	Sapling
Bigtooth Aspen	25	Sapling/Pole	3		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	50	Sapling	2	28	Red Maple	Medium	Variable	Sapling
					Black/Red (Hybrid) Oak	Low	Variable	Sapling

**156** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 3.5 99 111-140 N/A left as retention when Stand 154 was cut?

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	40	Log/Pole	11	99	Red Maple	Low	Variable	Sapling
Red Maple	20	Pole	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Pine	35	Log	12					
White Oak	5	Log/Pole	10					

**157** 4126 - White, Black, N. Pin Oak Sawtimber Well 49.6 140 51-80 N/A oak with scattered pockets of aspen saplings. Removed aspen, red maple and jack pine in 1994. Lots of blowdown from 2018 wind event which could be cleaned up if treated. oak declining in parts of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	60	Log/XLog/Pole	14	140	Red Pine	Low	10 - 20 feet	Sapling
Bigtooth Aspen	5	Sapling/Pole	4		White Pine	Low	Variable	Sapling
Red Pine	5	Log/Pole	11		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	30	Log/Pole	11		Red Maple	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>158</b>	42210 - Natural Red Pine	Sawtimber Medium	7.1	80	51-80	N/A	Stand in a valley so somewhat of a frost pocket. Looks like there was a fire in the understory (south of road) in the last 20 years or so. Consider final harvest and regenerating to red pine with full suite of tools																																																		
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<b>159</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	27.9	108	81-110	N/A	Nice mature mixed upland stand. Areas of dense white pine understory especially east side and northeast corner. Heavy witchhazel in spots in understory. Knob/ridge on north and south with valley in the middle so decent frost drainage, red maple regen is heavy in spots. Stand is healthy.																																																		
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<b>160</b>	4131 - Aspen, Oak	Sapling Well	48.0	23	Immature	N/A	mix of aspen and oak, areas heavy to BTA separated by areas with equal mix of aspen, oak, and other hardwoods, west side has scattered jp and small areas of J3.																																																		
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<b>161</b>	4133 - Aspen, Mixed Pine	Poletimber Well	9.2	45	Unspecified	N/A	A6 WITH AREAS HEAVY TO R/W PINE (planted in 1933), ALSO CONTAINS SMALL INCLUSION OF E5W7 IN BROAD DRAINAGE, some steeper terrain in spots, hold until next YOЕ to let aspen grow more.																																																		
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<b>162</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	19.8	89	81-110	N/A	majority was thinned in March 2003, thinned areas are O8A2O2W2 rest is W5O7W2, WP is persistent in the understory thru-out the whole stand, RO finally starting in a few spots but smaller RM and RO seedlings are heavily browsed, parts are A3 in the understory, heavily thinned parts are mostly oak/RM canopy, lighter thinned parts are R/W pine canopy planted in 1933 with scattered oaks, oaks growing well as are the pine, there are a few legacy size WP XL's within the stand, terrain is rolling with a few steeper slopes and 1 large/wet pothole in the center of the stand, mostly 2 aged going towards all aged, no treatment necessary at this time as treating now would damage too much understory.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**163** 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 9.3 12 Immature N/A final harvested 2010, marked oaks to leave and left all conifers, aspen /RM regenerated well, some oak is started but it is being heavily browsed as its shorter than the A/RM

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling	1	12	Red Pine	Trace	Variable	Sapling
Black/Red (Hybrid) Oak	15	Log	16		Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Oak	5	Log	14		White Oak	Trace	Variable	Sapling
Bigtooth Aspen	30	Sapling	1	12	White Pine	Low	Variable	Sapling
White Pine	15	Pole/Log/Sap	8					
Red Pine	5	Log/XLog	16					

**164** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 8.2 51 81-110 N/A west edge is on a slope to the east, east edge is level terrain which is spongy yet probably operable given the right conditions (dry or frozen), transition zone between upland to west and wet swamp to the east and bog to the south, WP understory thru-out, no treatment necessary at this time, will probably convert to WP if left alone so that might be the way to go with this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole	7	51	Balsam Fir	Low	Variable	Sapling
Quaking Aspen	15	Pole	7		White Pine	High	10 - 20 feet	Sapling
Paper Birch	2	Pole	8		Black Spruce	Low	Variable	Sapling
White Oak	3	Log	16					
White Pine	10	Pole/Log	8					
Balsam Fir	10	Pole	7					
Black Spruce	5	Pole	7					

**165** 6225 - Bog Nonstocked 16.7 No

**166** 310 - Herbaceous Openland Nonstocked 6.9 0 Unspecified 429 - Mixed Upland Conifers Archived Comments from 2019 YOE - fairly equal mix of JP,RP,WP, and Black Oak, north edge grades into bog/swamp to the north, oak is poor quality but the pine is decent quality although most of the largest WP has been weeviled at some point in the past, stand is over-mature and should be regenerated, Kotar type is PArVHa and soils are Crosswell sand; 2023 Comments -Cut Spring/Summer 2020, tops left for a seed source.

**167** 310 - Herbaceous Openland Nonstocked 21.5 0 Unspecified 4319 - Mixed Upland Forest Archived Comments from 2019 YOE - mix of RWJ pine with scattered aspen along road to the south, north is aspen/jack pine mix, west end is A/O/JP with W2 u.s and has more open grown aspect, Kotar is PArVHa, soils are Crosswell and Rubicon sands, recommend final harvest and trench/plant red pine where aspen and other hardwoods do not regenerate, will probably get some natural JP regeneration also; 2023 Comments - Cut Spring/Summer 2020



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**168** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Medium 2.7 102 51-80 N/A wet swale with cedar and other swamp conifers and lowland hardwoods

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	25	Pole	6					
White Pine	5	XLog/Log	21					
Paper Birch	5	Pole/Sapling	5					
Northern White Cedar	40	Pole	6	102				

**169** 310 - Herbaceous Openland Nonstocked 7.3 0 Unspecified 413 - Aspen Archived comments from 2019 YOE - nice aspen stand with parts heavy to r/w pine, scattered oak SL's, cut now to regenerate aspen; 2023 YOE Comments- Cut Spring/Summer 2020 and some parts are already well stocked in aspen, other spots are slowly filling in

**170** 6224 - Treed Bog Nonstocked 3.9 0 No

**171** 6225 - Bog Nonstocked 5.6 No

**172** 42260 - Natural Pine, Mixed Deciduous Poletimber Well 32.6 46 51-80 N/A variable stand, mix of jack pine poles mixed with other pines and hardwoods, scattered R/W pine SL and oak SL, some areas are heavy to W.P. poles, scattered J9 areas, north edge along swamp is heavy to RP SL, jack pine and oak are poor quality, R/W pine are better quality but there is a lot of spots in which the white pine are heavily weeviled, hold until next YOE and then final harvest and plant red pine

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log/Pole	10		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Maple	10	Pole	6		Bigtooth Aspen	Trace	Variable	Sapling
Jack Pine	30	Pole/Log/Sap	7	46	Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	15	Log/Pole	10		White Pine	Medium	Variable	Sapling
Red Pine	10	Log/XLog	14		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	20	Pole/Log/XLog	8		Pin Cherry	Low	Variable	Sapling
Quaking Aspen	10	Pole	6					

**173** 4133 - Aspen, Mixed Pine Sapling Well 6.5 23 Immature N/A GOOD A3 REGENERATION EXCEPT FOR WEST EDGE ALONG SWAMP which is more sparse (heavy deer browse?) aspen but heavy to conifer regeneration

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Sapling	1		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Black Spruce	10	Sapling	2					
Red Maple	10	Sapling	2					
Bigtooth Aspen	55	Sapling	2	23				
White Pine	20	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
175	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	11.4	110	51-80	N/A	cut north part in summer 2010 - left R/W pine and green marked oak trees, south part of the stand was left out of the treatment, stand has rolling terrain with some steeper slopes on the south end where it goes into the swamp, north part which was treated is slowly filling in with hardwood regeneration although numerous spots are still fairly sparse, south end is O/A/RM poles and SL's mixed with R/W pine poles and SL's but there is a fairly heavy u.s. of W3 or O3 or both in most spots, extreme south end of the stand is a ridge that runs into the swamp. lots of wildlife sign in this stand, recommend holding this stand until next YOE to see what the regeneration in the treated portion does.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Bigtooth Aspen	10	Pole/Log	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub
		Red Maple	20	Pole/Log	8		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
		White Oak	5	Log/XLog	17		White Pine	Medium	10 - 20 feet	Sapling
		White Pine	20	Pole/Log/Sap	7	45	Balsam Fir	Low	>20 feet	Sapling
		Red Pine	15	Log/Pole	11	65	Bigtooth Aspen	Low	< 5 feet	Sapling
176	6121 - Tamarack	Sapling Well	2.3	45	1-50	N/A	Old Cedar cut, mix of black spruce, balsam fir, tamarack and a few lowland hardwoods, some cedar finally starting, need to check this stand this spring, may be pretty much dead like surrounding cedar stand			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Black Spruce	30	Sapling/Pole	4		Northern White Cedar	Trace	< 5 feet	Sapling
		Balsam Fir	20	Sapling/Pole	4		Tag Alder	Low	5 - 10 feet	Tall Shrub
		Tamarack	50	Sapling/Pole	4	45				
177	6120 - Lowland Cedar	Poletimber Well	23.6	75		N/A				
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Balsam Fir	10	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
		Northern White Cedar	65	Pole/Log	8	75	Balsam Fir	Medium	Variable	Sapling
		Red Maple	10	Pole	6					
		Black Spruce	15	Pole	7					
178	4131 - Aspen, Oak	Poletimber Well	22.8	45		N/A	just past reaching the pole stage, growing well, still fairly small diameter wise, hold until next YOE			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Red Maple	20	Pole	5		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
		Black/Red (Hybrid) Oak	15	Log/XLog	16		Red Maple	Medium	Variable	Sapling
		Bigtooth Aspen	50	Pole/Sapling	6	45				
		White Oak	5	Log/XLog	16					
		White Pine	10	Pole	6					
179	6225 - Bog	Nonstocked	7.8			No				
180	6121 - Tamarack	Poletimber Poor	22.3	95		N/A	wet tamarack stand with other swamp conifers also, similar to surrounding cedar stand, mostly dead with scattered live trees, probably will cover to non-forested stand			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Northern White Cedar	20	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
		Tamarack	60	Pole	6	95	Balsam Fir	Low	Variable	Sapling
		Black Spruce	10	Pole	8					
		Balsam Fir	10	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
<b>181</b>	6121 - Tamarack	Sapling Well	0.7	52	1-50	N/A	OLD CEDAR CUT WHICH IS NOW A MIX OF BLACK SPRUCE, BALSAM FIR, AND TAMARACK, ALSO SCATTERED HARDWOODS, SLOW GROWING, some cedar finally starting, need to check stand this spring, may be pretty much dead like surrounding cedar stand.																																						
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<b>182</b>	6120 - Lowland Cedar	Poletimber Medium	9.0	85	81-110	N/A	low/wet spongy ground, mostly pole-size cedar but with scattered HW's and BF poles, also scattered WP XL's, canopy gaps have lots of BF saplings, some cedar die-off related to conditions in Stand 180.																																						
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<b>183</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	7.7	85	81-110	N/A	large XL and SL WP with cedar/RM/BF/WB poles, somewhat low and wet but has some higher ground also, water table close to the surface, fairly open understory except for scattered WP/BF saplings																																						
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Red Maple	10	Pole/Log	9																																										
White Pine	5	XLog/Log	19																																										
Northern White Cedar	60	Pole	7	105																																									
Sub-Canopy Species	Density	Avg. Height	Size																																										
Balsam Fir	Medium	Variable	Sapling																																										
<b>186</b>	42200 - Natural White Pine	Sawtimber Well	3.0	115	81-110	N/A	somewhat drier island surrounded by swamp, no access, did not visit																																						