



# Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71015

Entry Year 2023

Acreage: 2,818

County Roscommon

Management Area: Upper Muskegon

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**Stand Examiner:** Brian Martell

## Legal Description:

T22N R04W Sec. 16, 21, 27

T21N R04W Sec. 3, 4, 9, 10, 15, 16

## Identified Planning Goals:

Vegetation management in the Upper Muskegon 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 harvesting older jack pine and balancing age class distributions of oak, aspen and red pine.

## Soil and topography:

Terrain is mostly flat and is cut by several broad drainages with permanent streams. Soils are Saugatuck and Grayling sands in the upland areas and Rifle peat in the drainages and swamps.

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

The majority of the compartment is a solid block of state land. Private land in the northern part of the compartment ranges from larger parcels of non-developed property used for recreation and agriculture, to smaller parcels with permanent residences. There are a couple smaller blocks of state land surrounded by this private land in T22N R04W included in this compartment.

## Unique Natural Features:

A Great Blue Heron Rookery as well as Loon, Osprey, Bald Eagle, Northern Long-Eared Bat, Boreal Brachionyncha, and Pickerel Frog have all been recorded in or near the compartment.

## Archeological, Historical, and Cultural Features:

None known or detected during field work.

## Special Management Designations or Considerations:

None known.

## Watershed and Fisheries Considerations:

Portions of Wraco Lake Flooding, Wolf Creek, and an un-named creek are within the compartment.

## Wildlife Habitat Considerations:

The compartment is located between the former Wraco Flooding and US127 in Roscommon County. The topography is generally flat. The eastern side of the compartment runs through the Wraco mud flats where the Wraco dam once created a lake by the impoundment of Wolf Creek. The Wraco area is closed to motorized vehicles and equestrian traffic by Director's Order. This compartment is largely composed of mixed conifers with some aspen and oak stands on the dry ground. 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 is one managed wildlife opening within the compartment.

## 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 pits is less than two miles away. The compartment consists of mostly low wetlands, and sand & gravel development potential may be limited. The nearest oil & gas production, past or present, is approximately two miles to the southeast. There has been limited oil & gas drilling in this area, and there is currently no mineral leasing activity in the

compartment. Potential for oil & gas development within the compartment is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

Vehicle access to the Wraco Lodge portion of the compartment is restricted by department gates to protect the dike for Wraco Lake Flooding and will remain walk in access only at this time. Vehicle access to the rest of the compartment is good via county roads, seasonal county roads, and forest roads. The block of this compartment along US-127 has limited access.

**Survey Needs:**

None needed at this time.

**Recreational Facilities and Opportunities:**

Denton 50" ATV trail occurs on Elwell Road in Section 15. The proximity to main county roads increases hunting dispersed recreational use. The varying cover types and water resources supports a variety of wildlife species attracting hunters.

**Fire Protection:**

Low occurrence of fire history in this compartment. A good portion of this compartment is lowland and the high ground is mostly low hazard fuels.

**Additional Compartment Information:**

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

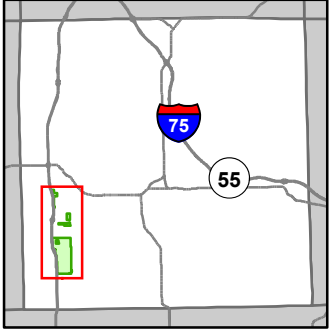
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

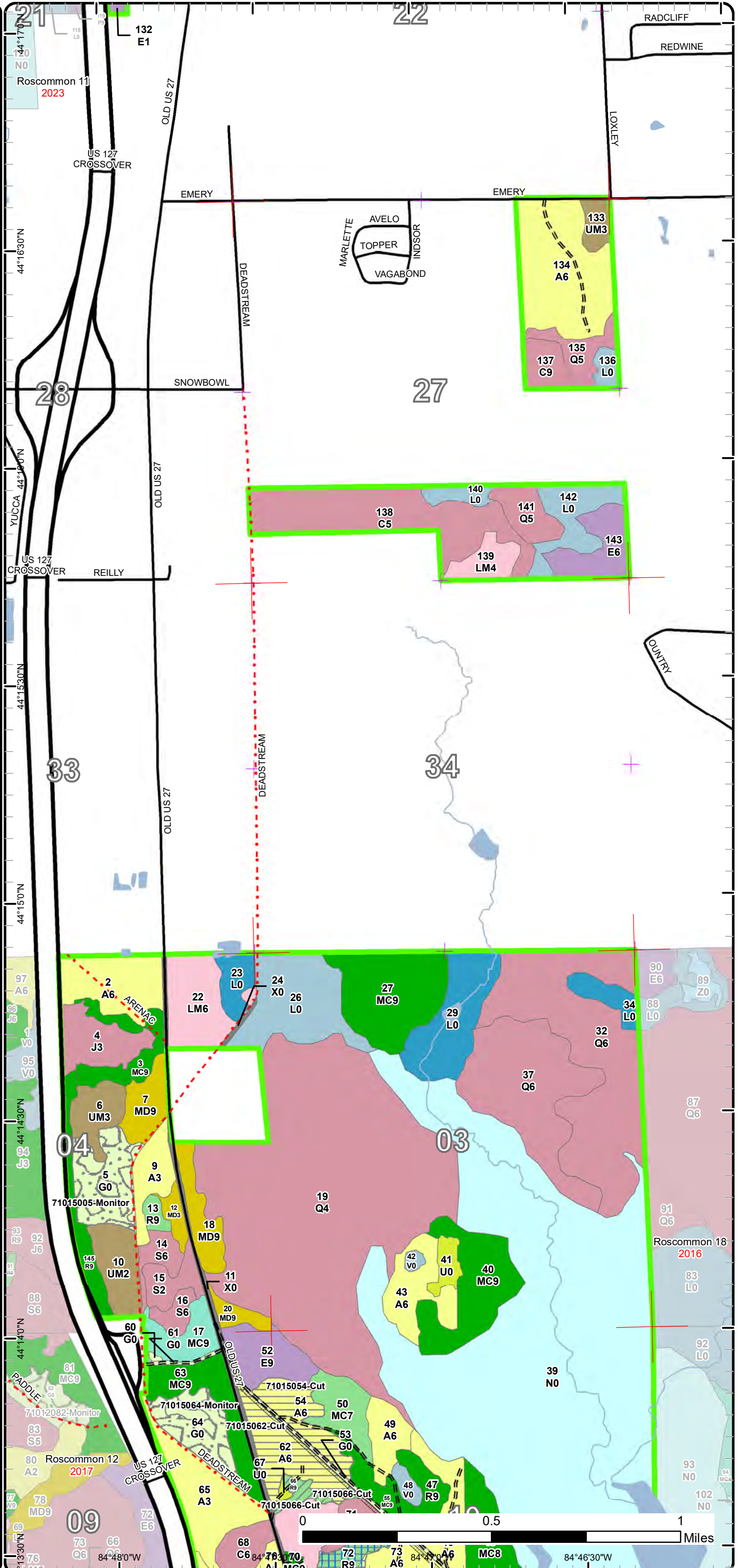
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 15  
 T21N, R04W, Sec. 03-04,  
 09-10, 15-16  
 T22N, R04W, Sec. 27  
 County: Roscommon  
 Unit: Roscommon  
 Mgmt Area: Upper Muskegon  
 YOE: 2023  
 Acres: 2817.9 GIS Calculated  
 Examiner: Brian Martell  
 Map Revised: 4/15/2022  
 Map Phase: Post-Review

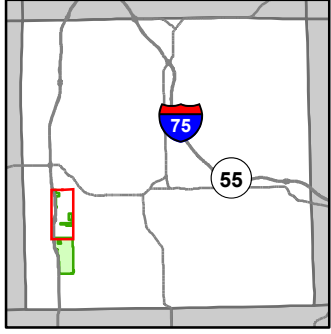


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- ORV Trails
- Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

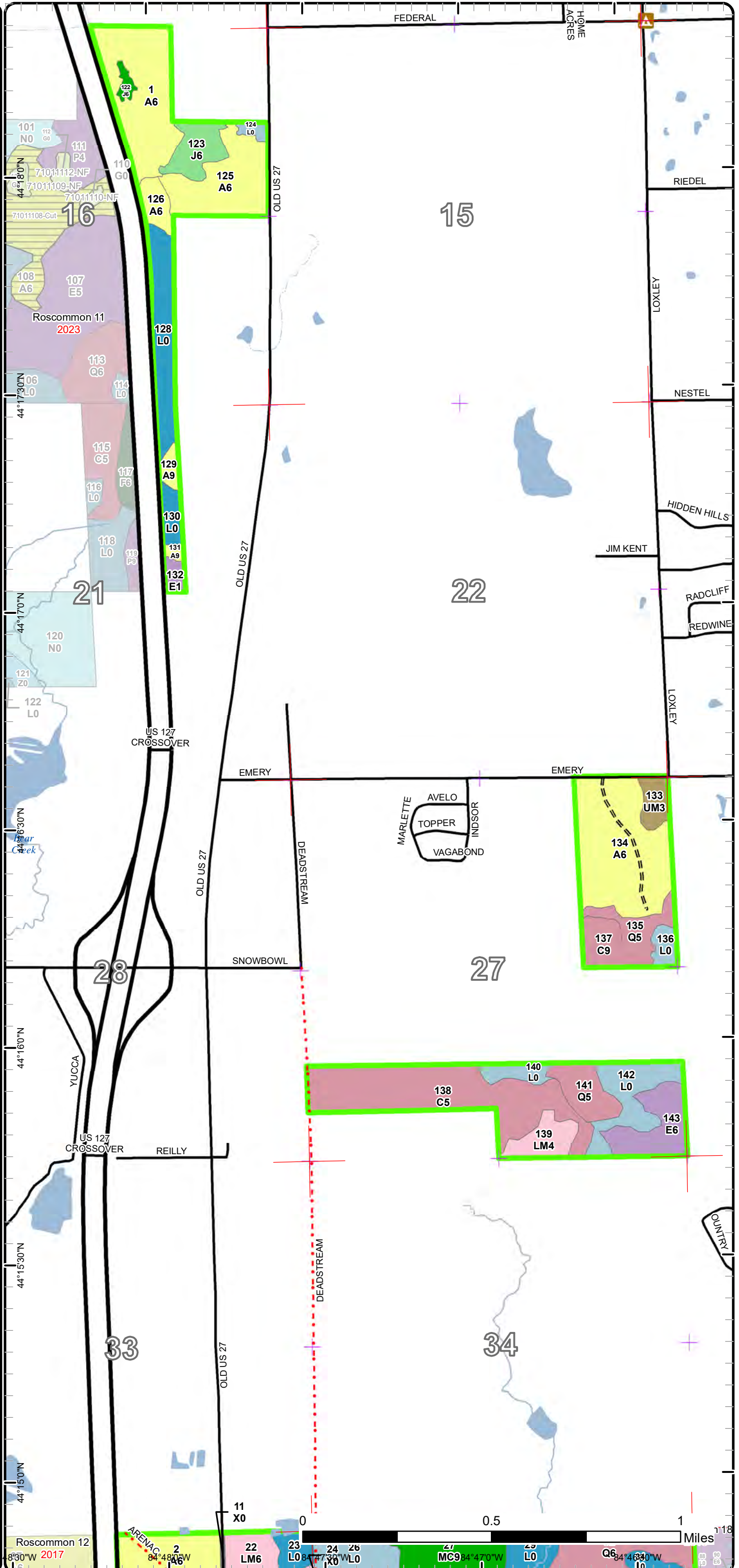


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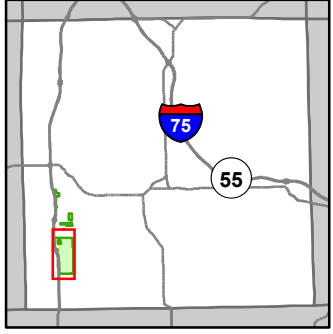


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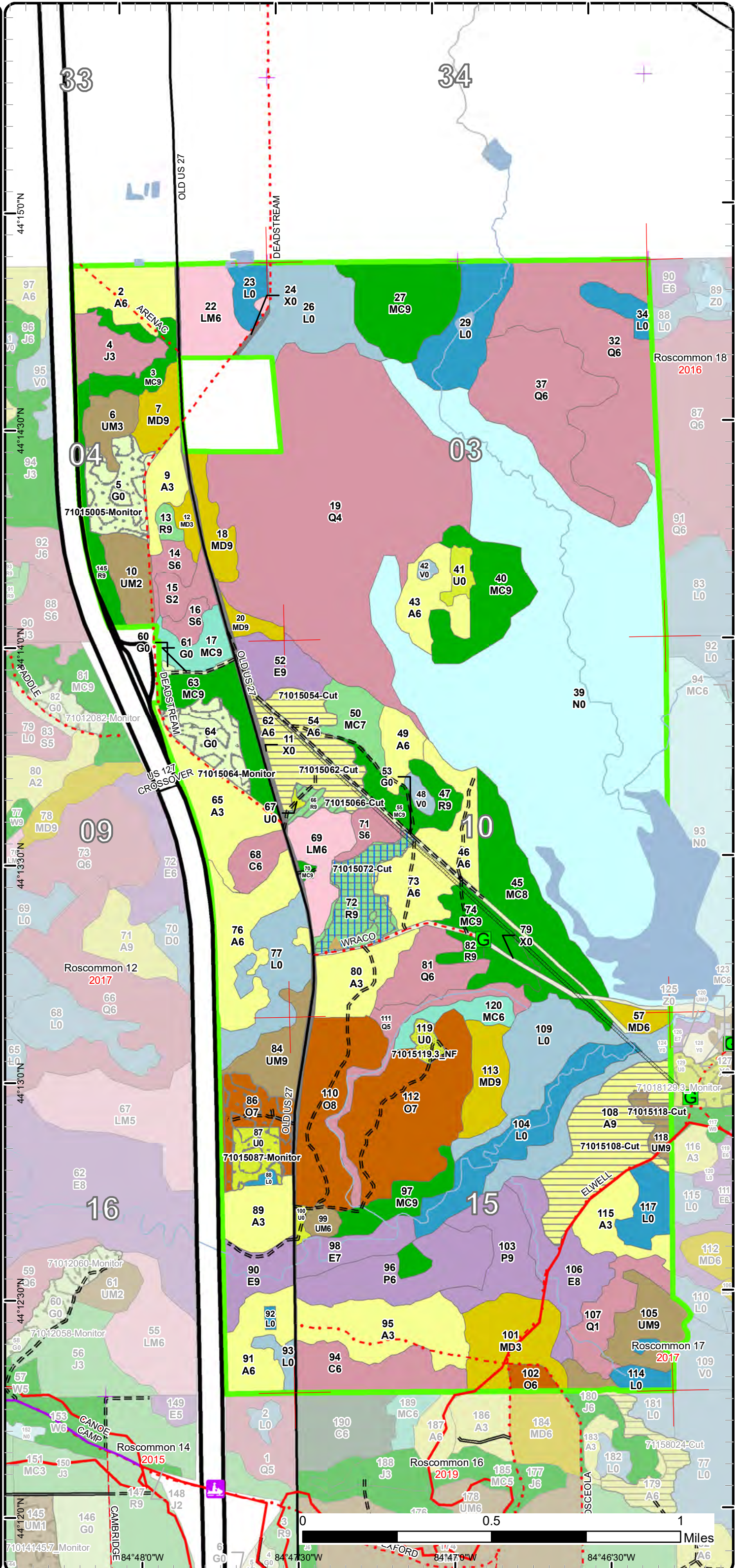


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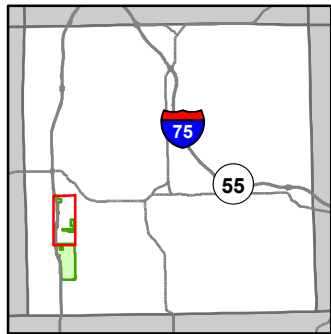


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- 790 - Other Bare/Sparsely Vegetated

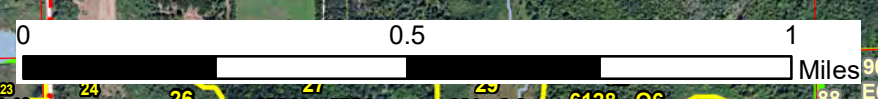
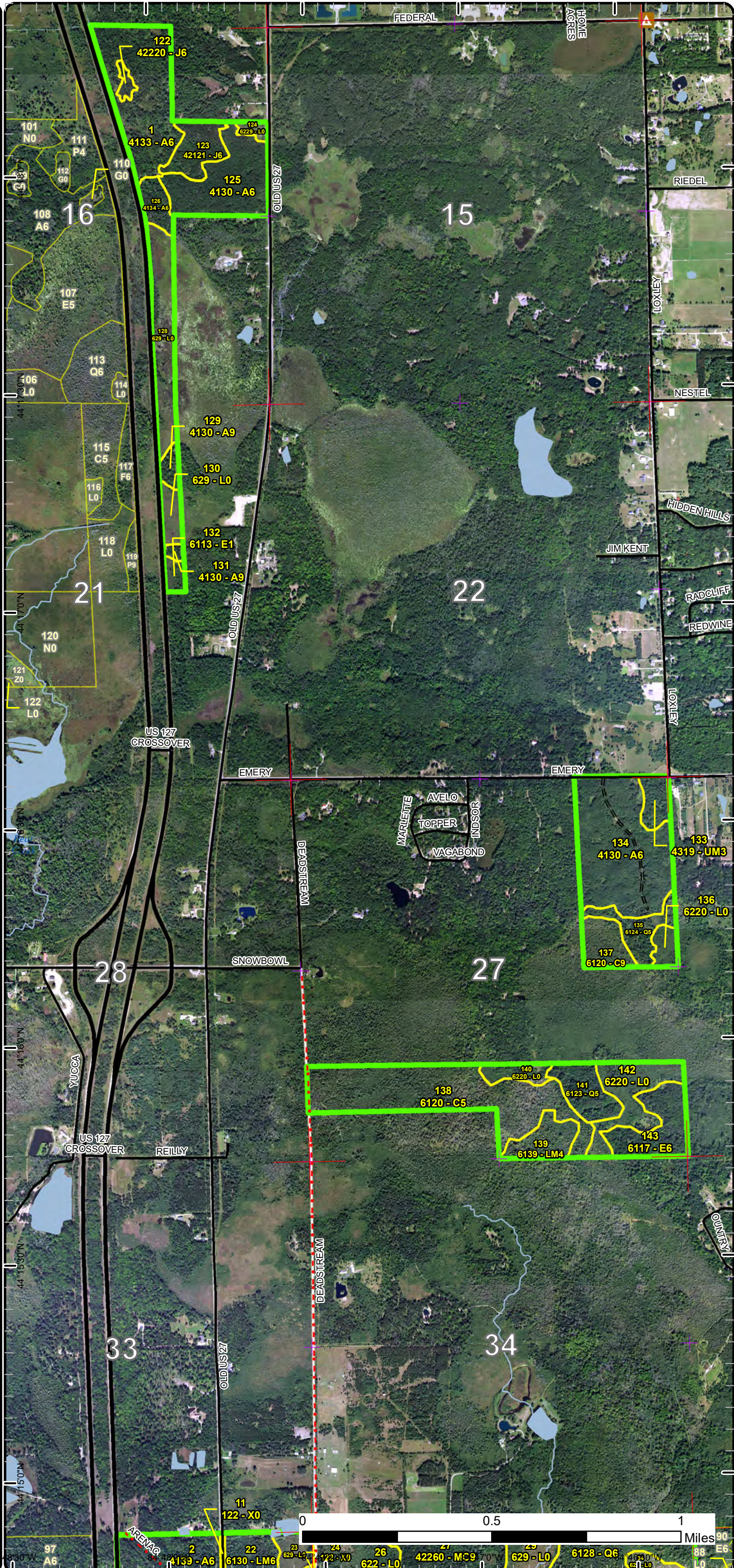


# Stand Boundary Map

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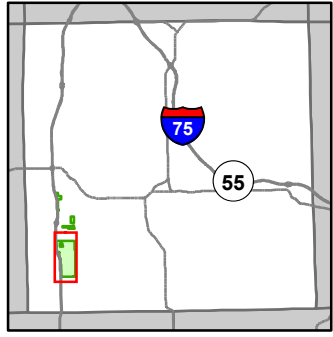
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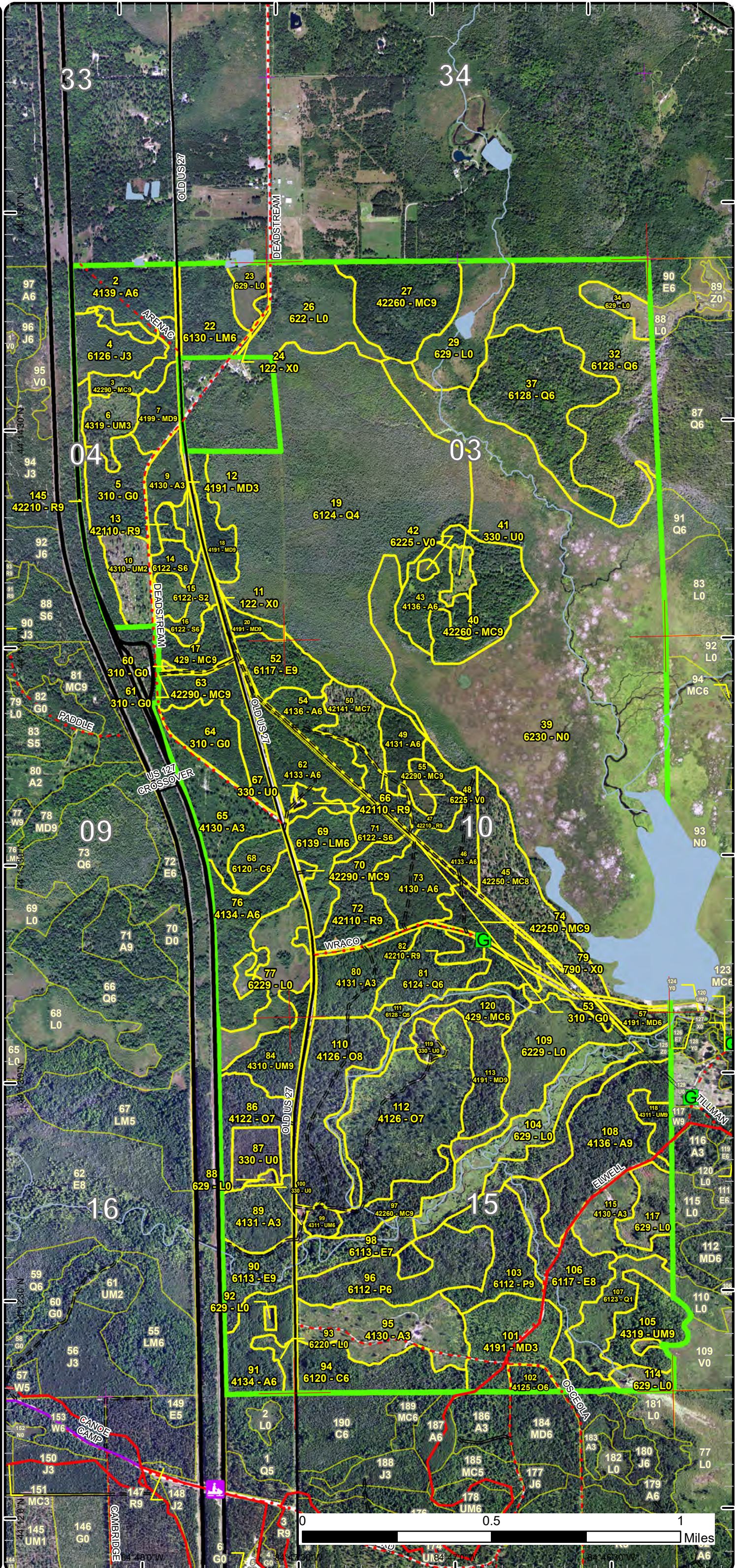
97 A6 11 122-X0 2 139-A6 22 6130-LM6 23 629-L0 24 122-X0 26 622-L0 27 42260-MC9 28 629-L0 29 6128-Q6 30 88 E6 L0

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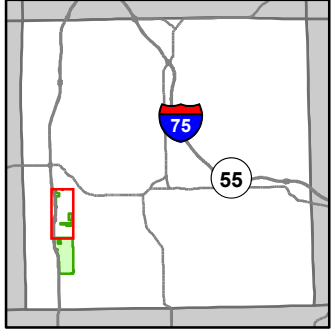


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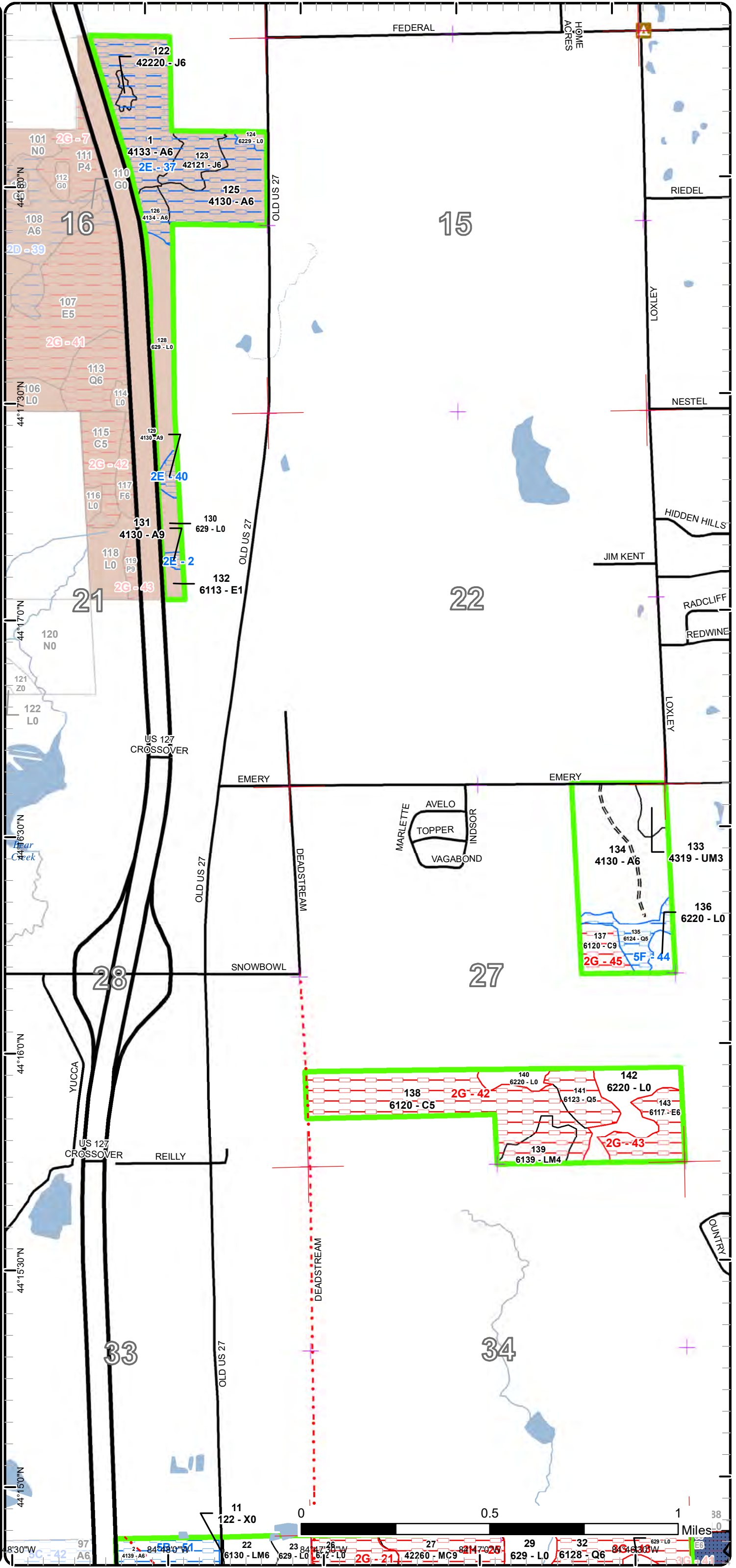


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- Lakes and Rivers
- Campground
- Compartment Boundary
- Available w/ Constraints
- 2E: Road needed
- 5B: Maintain for regeneration purposes
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Wildlife Research Areas
- Spring or Seep

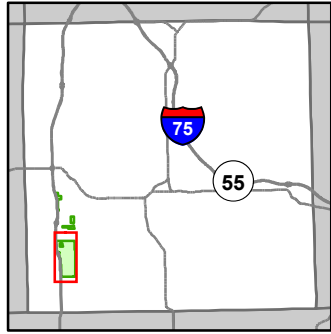


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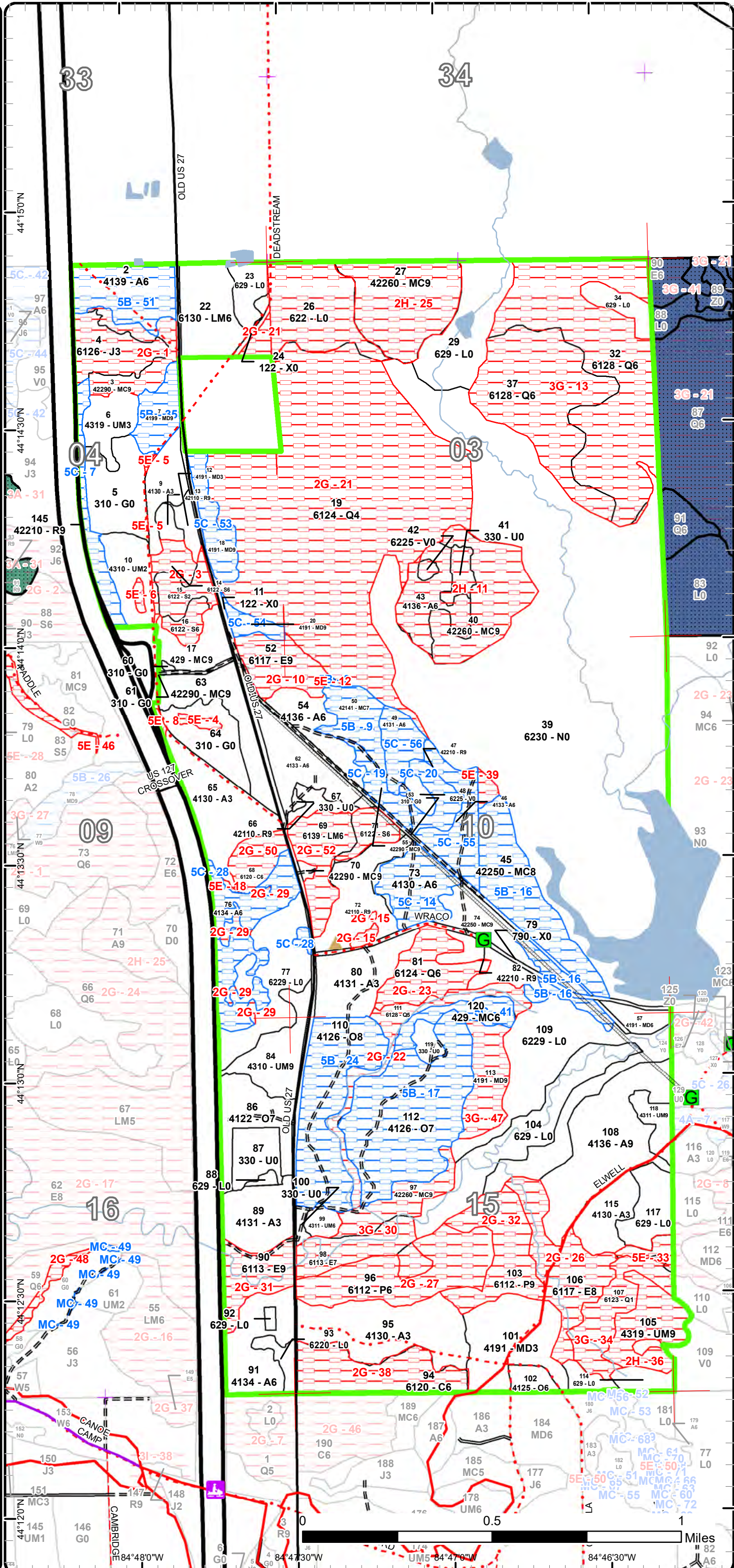


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- Berms
- Gate
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Spring or Seep
- Habitat Corridor



Miles

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	58	30	105	23	100	187	5	0	0	0	0	0	0	0	0	0	0	507
Bare/Sparsely Vegetated	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	0	0	40	0	0	10	0	56	0	0	106
Herbaceous Openland	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Jack Pine	0	0	0	0	18	2	11	0	0	0	0	0	0	0	0	0	0	0	31
Low-Density Trees	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	39	0	0	0	0	28	0	0	0	0	0	0	67
Lowland Conifers	0	0	0	0	0	0	12	0	0	10	243	193	0	0	0	0	0	21	479
Lowland Deciduous	0	0	0	0	3	0	0	17	0	0	33	48	0	0	0	0	0	0	101
Lowland Mixed Forest	0	0	0	0	25	20	10	0	0	0	0	0	0	0	0	0	0	0	54
Lowland Shrub	296	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	296
Lowland Spruce/Fir	0	0	0	0	0	0	17	0	0	0	12	0	0	0	0	0	0	0	29
Marsh	417	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	417
Mixed Upland Deciduous	0	0	33	4	0	6	0	0	0	0	30	18	0	0	0	0	0	0	91
Natural Mixed Pines	0	0	0	0	0	0	39	0	48	21	21	72	0	0	0	0	0	1	201
Oak	0	0	0	0	0	0	5	0	0	0	0	132	0	0	0	0	0	0	137
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Red Pine	0	0	0	0	0	0	0	0	0	30	27	0	0	0	0	0	0	4	61
Upland Conifers	0	0	0	0	0	0	0	0	0	0	13	10	0	0	0	0	0	0	23
Upland Mixed Forest	0	16	13	6	4	0	19	0	0	0	0	26	0	8	0	0	0	0	91
Urban	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
<b>Total</b>	<b>825</b>	<b>74</b>	<b>76</b>	<b>115</b>	<b>73</b>	<b>128</b>	<b>339</b>	<b>22</b>	<b>48</b>	<b>76</b>	<b>419</b>	<b>527</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>56</b>	<b>0</b>	<b>26</b>	<b>2818</b>



## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2023

Acres of Harvest

Compartment 15  
Total Compartment Acres: 2,818

Commercial Harvest - 120  
Harvests with Site Condition - 0  
Next Step Harvest - 23  
Habitat Cut - 23

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	85	0	0	0	0	0	0	0	0	85
Red Pine	0	0	0	23	0	5	0	0	0	28
Upland Mixed Forest	8	0	0	0	0	0	0	0	0	8
<b>Total</b>	<b>92</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	120	0	0	0	0	0	68	0	4	193
Next Step	23	45	45	0	0	45	160	23	4	345
<b>Total</b>	<b>143</b>	<b>45</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>229</b>	<b>23</b>	<b>8</b>	<b>538</b>



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

<b>5</b>	<b>71015005-Monitor</b>	22.4	310 - Herbaceous Openland	Nonstocked	0		Monitoring	Natural Regen (Intermediate)	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Monitor to see if regen reaches a natural stocked forested stand, otherwise re-evaluate to possibly plant jack pine with no other site prep.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Site Prep</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of planted red pine with natural pine or hardwoods to a fully stocked stand.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /1 /2023</p>											
<b>54</b>	<b>71015054-Cut</b>	15.0	4136 - Aspen, Mixed Conifer	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches DBH and larger. Leave standard area retention. Leave a few brush piles along lowland stand to the north and drumming logs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked stand of mostly aspen with aspen, red maple, oak, white pine, and balsam fir.</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 /2022</p>											
<b>62</b>	<b>71015062-Cut</b>	21.4	4133 - Aspen, Mixed Pine	Poletimber Well	59		Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Cut all trees 2 inch DBH and larger except for all red pine and white pine. Leave one healthy, large crowned white oak for every couple acres for hard mast. No area retention, red pine and white pine will be the retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak, and maple underneath the residual mixed pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /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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64	71015064-Monitor	17.1	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
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Prescription monitor for natural regeneration

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 /2030

66	71015066-Cut	5.1	42110 - Planted Red Pine	Sawtimber Well	86	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Spec cut all species except for red pine and white pine. Thin pine down to about 100-120 BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

72	71015072-Cut	22.7	42110 - Planted Red Pine	Sawtimber Well	86	141- 170	Harvest	Seed Tree	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees down to 1 inch DBH. Mark about 40 BA of red pine to leave. Focus on leaving large crowned healthy trees. Require low stumps and chipping.

Specs:

Next Step

Treatments:

Other, Other; Harvest, Clearcut; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping

Acceptable 80% free to grow planted red pine

Regen:

Other For red pine fertilization/cone production study. Starting treatment sequence out-of-YOE to achieve earlier results.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

86	71015086-Monitor	17.5	4122 - Oak, Pine	Sawtimber Poor	102	51-80	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	No
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Prescription monitor for oak and white pine regeneration

Specs:

Next Step

Treatments:

Acceptable any combination of oak or 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
<b>87 71015087-Monitor</b>	11.4	330 - Low-Density Trees	Nonstocked		Immature	Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> monitor for natural regeneration next YOE</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of jack pine and other species to a fully stocked stand, plant red 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 /2024</p>										
<b>108 71015108-Cut</b>	48.4	4136 - Aspen, Mixed Conifer	Sawtimber Well	59	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" DBH and larger. Leave standard retention focusing on wet areas that are prone to rutting during harvest. Leave drumming logs throughout and brush piles along northern lowland edge. Include ORV route protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with red maple, oak, balsam fir, and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>118 71015118-Cut</b>	7.5	4311 - Pine, Aspen Mix	Sawtimber Well	121	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all species 2" DBH and larger. For retention, leave about 10BA of white pine and red pine, including 'legacy trees,' for a seed source and aesthetics. Include ORV route protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked stand of aspen, maple, oak, and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>119 71015119.3_N F</b>	4.2	330 - Low-Density Trees	Nonstocked			NonForestMgt	Mowing	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Headquarters 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 /2012</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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Total Treatment Acreage Proposed: 192.7

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

Compartment: 15  
 Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		2E	5B	5C	5F	2G	2H	3G	5E
507	297	<b>182</b>	27	Aspen	<b>77</b>	<b>25</b>	<b>81</b>		3	19	0	5
7	7	<b>0</b>	0	Bare/Sparsely Vegetated								
5	3	<b>0</b>	1	Bog						1		
105	0	<b>0</b>	104	Cedar					104			
53	50	<b>0</b>	3	Herbaceous Openland								3
31	0	<b>13</b>	18	Jack Pine	<b>13</b>				18			
23	18	<b>0</b>	5	Low-Density Trees						5		
67	0	<b>0</b>	67	Lowland Aspen/Balsam Poplar					67			
479	0	<b>10</b>	469	Lowland Conifers				10	293	0	175	0
102	3	<b>0</b>	99	Lowland Deciduous					83		16	0
54	25	<b>0</b>	30	Lowland Mixed Forest					30			
296	258	<b>0</b>	38	Lowland Shrub					37	0	0	0
29	0	<b>0</b>	29	Lowland Spruce/Fir					29			
417	416	<b>0</b>	1	Marsh					0	0	0	
91	43	<b>30</b>	18	Mixed Upland Deciduous		<b>12</b>	<b>18</b>		0		18	
202	42	<b>53</b>	107	Natural Mixed Pines		<b>45</b>	<b>8</b>		14	72	19	2
136	25	<b>112</b>	0	Oak		<b>112</b>			0		0	
15	0	<b>15</b>	0	Planted Mixed Pines		<b>14</b>	<b>0</b>					0
61	35	<b>24</b>	2	Red Pine			<b>24</b>		2			
23	13	<b>10</b>	0	Upland Conifers			<b>10</b>		0			
92	69	<b>0</b>	23	Upland Mixed Forest						22	0	1
24	23	<b>0</b>	1	Urban					1			
2,818	1,328	<b>449</b>	1,041	Total Forested Acres	<b>90</b>	<b>208</b>	<b>140</b>	10	681	120	229	12
	47%	<b>16%</b>	37%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

Compartment: 15  
 Year of Entry: 2023

2	<b>Available</b>	<b>2E: Road needed</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mostly between I-75 and MDOT fence.							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

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 Year of Entry: 2023

9	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand was just shelterwood/seed tree harvested last YOE.							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	58	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	154	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> SCA-Riparian area							
14	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

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 Year of Entry: 2023

15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	67	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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21	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	280	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	45	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>	40	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	30	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
SCA							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

Compartment: 15  
 Year of Entry: 2023

27	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> SCA - riparian corridor							
31	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Floodplain of Wolf Creek							
32	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

Compartment: 15  
 Year of Entry: 2023

33	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	Unavailable	3G: Other Influence zones - See comments	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> add to riparian corridor SCA							
35	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	22	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> add to riparian corridor SCA							
37	Available	2E: Road needed	85	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Need a driveway from Old-127 which most likely will include installation of a very large culvert.							
38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

Compartment: 15  
 Year of Entry: 2023

40	<b>Available</b>	<b>2E: Road needed</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> blocked by private and US-127 ROW							
41	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	77	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Muck Soils							
43	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
44	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
45	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

Compartment: 15  
 Year of Entry: 2023

46	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
47	Unavailable	3G: Other Influence zones - See comments	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> SCA along riparian corridor							
48	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
49	Available	Minor Change in Acreage	3				
<b>Comments:</b>							
50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
51	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Allow some of the saplings and poles in the canopy to grow into larger size classes.							



## Report 4 – Site Conditions

Roscommon Mgt. Unit  
 Brian Martell : Examiner

Compartment: 15  
 Year of Entry: 2023

52	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
53	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
54	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
55	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
56	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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	4133 - Aspen, Mixed Pine	Poletimber Well	38.3	44	1-50	N/A	Roller chopped in 1978 but didn't regenerate well, slowly filling in with merchantable species. There is a pipeline ROW that goes through the stand north to south.																																																													
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2	4139 - Aspen, Mixed Deciduous	Poletimber Well	25.1	56	111-140	N/A	Aspen stand containing hardwoods and conifers that were left during the last aspen harvest about 1966. Stand is variable in species composition and diameter throughout due to previous management.																																																													
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3	42290 - Natural Mixed Pine	Sawtimber Well	13.7	92	111-140	N/A	This stand is the transition from the upland to the lowland stand it surrounds.																																																													
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4	6126 - Lowland Jack Pine	Sapling Well	18.0	30	Immature	N/A	Stand was clearcut in 1991 and was seeded to help with natural regeneration.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**5** 310 - Herbaceous Openland Nonstocked 23.5 0 No Cut in 2019 as a part of Bear Creek Harvest, 71-018-17

**6** 4319 - Mixed Upland Forest Sapling Well 12.5 12 1-50 N/A

Cut 2010 as a part of "High Water Red Pine" 71-016-07. Trenched in 2013; planted to red pine in 2015. A lot of the original canopy was left and no competition control was done, so most of the planted red pine did not survive. Open areas after the harvest mostly regenerated naturally to maple and oak.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/Pole	12	
Red Maple	30	Sapling	2	12
Black/Red (Hybrid) Oak	15	Sapling	2	12
Red Pine	5	Sapling	1	7
Jack Pine	15	Sapling	1	
Balsam Fir	5	Sapling	2	
Black/Red (Hybrid) Oak	10	Log	10	
Red Pine	15	Log/Pole	13	

**7** 4199 - Other Mixed Upland Deciduous Sawtimber Well 12.0 92 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole/Log	9	
Bigtooth Aspen	5	Log/Pole	12	
Red Pine	10	Log/XLog/Pole	14	
Red Maple	35	Pole/Log/Sap	9	
Black/Red (Hybrid) Oak	38	Log/XLog/Pole	14	92
Jack Pine	2	Log/Pole	10	
White Pine	5	Log/XLog/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Trace	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Maple	Medium	>20 feet	Sapling

**9** 4130 - Aspen Sapling Well 12.3 20 Immature N/A

NW corner has a higher concentration of jack pine than the rest of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	8	Sapling	2	
White Pine	4	Sapling	2	
Red Maple	3	Sapling	2	
Bigtooth Aspen	75	Sapling	2	20
Jack Pine	10	Sapling	3	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**10** 4310 - Pine, Oak Mix Sapling Medium 16.0 7 1-50 N/A

FTP called for stand to be roller chopped in mid growing season 2011 and hand planted with red pine in spring of 2012. Trenched in 2013 and planted to red pine in 2015.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Log/Pole	12	
Red Pine	5	Log	14	
Jack Pine	1	Sapling	1	
Black/Red (Hybrid) Oak	1	Log	14	
Black/Red (Hybrid) Oak	25	Sapling	1	11
Red Maple	20	Sapling	2	11
Bigtooth Aspen	5	Sapling	2	11
Red Pine	37	Sapling	1	7
Pin Cherry	3	Sapling	2	11
Bigtooth Aspen	1	Log	10	

**11** 122 - Road/Parking Lot Nonstocked 22.9 No

**12** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 4.4 20 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Sapling	2	
White Pine	10	Sapling	2	
Jack Pine	10	Sapling	3	
Red Maple	35	Sapling	3	20
Balsam Fir	1	Sapling	2	
Red Pine	7	Sapling	2	
Paper Birch	5	Sapling	2	
Red Pine	1	Log	14	
Black/Red (Hybrid) Oak	25	Sapling	3	20
Black/Red (Hybrid) Oak	1	Log	13	

**13** 42110 - Planted Red Pine Sawtimber Well 3.1 92 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/XLog/Pole	14		Black Spruce	Low	Variable	Sapling
Red Pine	95	Log/Pole	12	92	Red Maple	High	Variable	Sapling
					Black/Red (Hybrid) Oak	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**14**      6122 - Black Spruce      Poletimber Well      7.0      97      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	7	Pole/Sap/Log	7		Balsam Fir	Low	Variable	Sapling
White Pine	13	Log/Pole	12		Red Maple	Low	Variable	Sapling
Red Pine	2	Log	14		Black Spruce	Low	Variable	Sapling
Black/Red (Hybrid) Oak	3	Pole/Log	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	50	Pole/Log	8	97				
Jack Pine	10	Log/Pole	10					
Balsam Fir	15	Pole	7					

**15**      6122 - Black Spruce      Sapling Medium      9.3      57      1-50      N/A

Bog/cattail marsh containing mostly black spruce, red maple, and paper birch saplings, and a few larger red maples.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Sapling	2		Cattail spp.	Medium	Unspecified	Non-Wood
Red Maple	15	Sapling/Pole	4		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	70	Sapling/Pole	2	57				

**16**      6122 - Black Spruce      Poletimber Well      5.3      97      111-140      N/A

Most of the cedar is in the middle of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	50	Pole/Log	8	97	Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	39	Pole/Log	8		Labrador Tea	Medium	< 5 feet	Tall Shrub
White Pine	5	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	5	Pole	7		Black Spruce	Medium	Variable	Sapling
White Pine	1	XLog/Log	20					

**17**      429 - Mixed Upland Conifers      Sawtimber Well      12.7      97      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	30	Pole/Log/Sap	8	97	Red Maple	Medium	>20 feet	Sapling
White Pine	10	Log/XLog	14		Black Spruce	Medium	Variable	Sapling
Quaking Aspen	5	Log/Pole	10		Balsam Fir	High	>20 feet	Sapling
Black/Red (Hybrid) Oak	5	Log/Pole	10					
Balsam Fir	10	Pole/Sapling	7					
Red Maple	30	Log/Pole	12					
Red Pine	10	Log/Pole/XLog	12	97				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
18	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.6	92	81-110	N/A	Stand contains small pockets of aspen throughout, and the rest is mostly dominated by oak. East end of stand gets wetter as it transitions into the bog.																																																								
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19	6124 - Lowland Spruce-Fir	Poletimber Poor	242.6	97	1-50	N/A	Ver wet soils, conifer swamp.																																																								
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20	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.0	97	81-110	N/A	West end of the stand is higher ground and contains more oak, the East end turns to lower ground and picks up more balsam fir and soft maple.																																																								
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22	6130 - Fir, Aspen, Maple	Poletimber Well	24.5	31	1-50	N/A	Stand is a mix of lowland and upland. Lowland areas are mostly balsam fir and red maple with tag alder understory. Upland areas are mostly aspen, jack pine, and oak.																																																								
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23	629 - Mixed non-forested wetland	Nonstocked	8.8			No																																																									





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
24	122 - Road/Parking Lot	Nonstocked	1.1			No																																																			
26	622 - Lowland Shrub	Nonstocked	37.7		Immature	No																																																			
27	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	39.8	101	81-110	N/A	Au Gres sand w/PArVCo kotar type.																																																		
29	629 - Mixed non-forested wetland	Nonstocked	30.7			No																																																			
32	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	93.2	101		N/A																																																			
34	629 - Mixed non-forested wetland	Nonstocked	8.1			No																																																			
37	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	60.7	101		N/A	Bulk of stand is Tawas-Lupton mucks w/unclassified lowland kotar type, north end of the stand has one higher area which has Croswell sand w/PArVHa kotar type.																																																		
39	6230 - Cattail	Nonstocked	417.0		Immature	No	Wraco Lake Flooding. Mostly cattails with some mixed lowland shrubs. At least one pocket of phragmites.																																																		
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40	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	32.5	101	171-200	N/A	White pine is thicker on the edges, more aspen in the middle.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**41**      330 - Low-Density Trees      Nonstocked      5.2      Immature      No

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	>20 feet	Pole
Jack Pine	Low	10 - 20 feet	Sapling
Red Pine	Low	>20 feet	Pole
White Pine	Trace	10 - 20 feet	Sapling

**42**      6225 - Bog      Nonstocked      1.5      No

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Low	>20 feet	Pole
Black Spruce	Low	>20 feet	Pole
White Pine	Trace	>20 feet	Log
Jack Pine	Trace	>20 feet	Pole

**43**      4136 - Aspen, Mixed Conifer      Poletimber Well      18.7      42      1-50      N/A      Habitat cut in 1980.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	7	Pole/Sapling	5	
Red Maple	2	Pole/Sapling	5	
Black/Red (Hybrid) Oak	2	Pole/Sapling	5	
Jack Pine	1	Pole/Sapling	6	
Balsam Fir	7	Pole/Sapling	5	
Quaking Aspen	55	Sapling/Pole	4	42
White Pine	10	Pole/Sap/Log	6	
Bigtooth Aspen	15	Pole/Sapling	5	
Red Pine	1	Pole/Sapling	6	

**45**      42250 - Pine, Oak      Sawtimber Medium      47.9      79      1-50      N/A

Treated in December 2014 as a part of "Wraco Aspen" 71-014-13 by leaving all red and white pine and 20 SF of oak residual.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Pole	5		Red Maple	Medium	10 - 20 feet	Sapling
White Oak	10	Log/Pole	12	79	Jack Pine	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	25	Log	13	79	Bigtooth Aspen	Medium	10 - 20 feet	Sapling
White Pine	55	Pole/Log	8	79	White Pine	Low	Variable	Sapling
					White Oak	Medium	< 5 feet	Sapling
					Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**46** 4133 - Aspen, Mixed Pine Poletimber Well 18.6 56 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Pole/Sapling	5		Black Spruce	Low	Variable	Sapling
Bigtooth Aspen	50	Pole/Sapling	7	56	White Pine	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	7	Log/XLog	14	56	Balsam Fir	Low	Variable	Sapling
White Pine	20	Pole/Log	8		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Pine	3	Log/Pole/XLog	13		Red Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	15	Pole/Sapling	7					
Jack Pine	4	Pole/Sap/Log	7					

**47** 42210 - Natural Red Pine Sawtimber Well 10.0 99 111-140 N/A Stand was thinned in 1996 by removing most hardwoods and jack pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	79	Log/Pole/XLog	13	99	White Pine	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	5	Pole/Log	8		Red Pine	Low	Variable	Sapling
Jack Pine	1	Pole	7		White Oak	Low	Variable	Sapling
White Pine	15	Log/Pole/XLog	10		Pin Cherry	Low	Variable	Tall Shrub
					Black/Red (Hybrid) Oak	Medium	Variable	Sapling

**48** 6225 - Bog Nonstocked 3.3 No Leatherleaf bog with a few scattered saplings and poles.

Sub-Canopy Species	Density	Avg. Height	Size
Leatherleaf	Full	< 5 feet	Tall Shrub
Black Spruce	Trace	Variable	Sapling
White Pine	Trace	Variable	Sapling
Jack Pine	Trace	Variable	Sapling

**49** 4131 - Aspen, Oak Poletimber Well 11.3 59 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	1	Log/XLog	16		White Pine	Low	Variable	Sapling
Bigtooth Aspen	64	Pole/Log/Sap	7	59	Red Pine	Low	Variable	Sapling
Balsam Fir	5	Pole	6		Red Maple	Medium	>20 feet	Sapling
White Pine	5	Pole	6		Balsam Fir	Low	Variable	Sapling
Black/Red (Hybrid) Oak	20	Pole/Log/XLog	8	59				
Red Maple	4	Pole/Sapling	5					
White Oak	1	Log/Pole	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**50** 42141 - Planted Mixed Pine, Mixed Deciduous Sawtimber Poor 14.7 86 1-50 N/A Parts of this stand were planted to red pine, white pine, and jack pine mix in 1929, 1934, and 1938. Stand had a shelterwood treatment done in late winter/early spring 2015.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Log/XLog	16		White Pine	Low	< 5 feet	Sapling
White Oak	10	Log/XLog	16		Balsam Fir	Medium	10 - 20 feet	Sapling
White Pine	40	Log/XLog	14	86	Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
Red Pine	35	Log	14	86	Bigtooth Aspen	High	10 - 20 feet	Sapling
					Red Maple	High	10 - 20 feet	Sapling

**52** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 17.8 101 51-80 N/A Stand is mostly over mature aspen and maple with heavy balsam fir understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	3	Pole/Log	9		Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Log	14		White Oak	Low	Variable	Sapling
Balsam Fir	20	Pole/Sap/Log	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	32	Log/Pole	13	101	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Maple	32	Log/Pole	13		Balsam Fir	Full	Variable	Sapling
White Pine	8	Log/Pole/XLog	10					

**53** 310 - Herbaceous Openland Nonstocked 8.4 No

**54** 4136 - Aspen, Mixed Conifer Poletimber Well 15.0 44 81-110 N/A North part of stand transitions to wetter ground with more balsam fir and red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	37	Pole/Log	8	44	Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	10	Log/XLog	14		White Pine	Low	Variable	Sapling
Red Pine	5	Log	12		White Oak	Low	Variable	Sapling
Quaking Aspen	20	Pole/Log	8		Red Maple	Low	Variable	Sapling
Balsam Fir	5	Pole/Log/Sap	7		Balsam Fir	Low	Variable	Sapling
Red Maple	15	Pole/Log/Sap	9					
Black/Red (Hybrid) Oak	3	Log/Pole/XLog	14					
White Oak	5	Log/Pole	12					

**55** 42290 - Natural Mixed Pine Sawtimber Well 7.7 99 81-110 N/A Stand was thinned to 100 SF in Feb/March 2015.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Log/Pole	12		White Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	10	Log/Pole/XLog	14		Red Maple	Low	Variable	Sapling
White Oak	1	Log	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	40	Log/Pole	11		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Maple	2	Pole/Log	8		White Pine	Low	Variable	Sapling
Red Pine	42	Log	13	99	Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**57** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 6.0 46 51-80 N/A Very mixed stand of species and size classes.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Sapling	5	46	Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	5	Pole	5	46	White Pine	Low	< 5 feet	Sapling
White Pine	35	Pole/Log	9		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Jack Pine	5	Pole/Sap/Log	5					
Pin Cherry	5	Sapling/Pole	4					
Black/Red (Hybrid) Oak	35	Sapling/Pole/Log	4	46				
Red Maple	10	Pole/Sapling	5	46				

**60** 310 - Herbaceous Openland Nonstocked 0.4 No Small opening; rest area drain field.

**61** 310 - Herbaceous Openland Nonstocked 1.3 No Utility ROW for rest area

**62** 4133 - Aspen, Mixed Pine Poletimber Well 21.4 59 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	15	Log/Pole	10		Pin Cherry	Low	Variable	Tall Shrub
Red Oak	10	Log/XLog	14		Red Maple	Low	Variable	Sapling
White Oak	10	Log/XLog/Pole	14		White Pine	Low	Variable	Sapling
Bigtooth Aspen	45	Pole/Log	8	59	Balsam Fir	Low	Variable	Sapling
White Pine	15	Pole/Log	9					
Red Maple	5	Log	12					

**63** 42290 - Natural Mixed Pine Sawtimber Well 20.8 88 111-140 N/A PLANTED to WHITE PINE IN 1929 AND 1934 but couldn't really find any rows - Thinned January 2020, removed aspen and JP and marked trees to maintain as a mixed conifer stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	8		White Pine	Low	Variable	Sapling
White Oak	5	Log/XLog	15		Red Maple	Low	Variable	Sapling
White Pine	50	Log/Pole/XLog	14	88				
Red Pine	30	Log/XLog	14	88				

**64** 310 - Herbaceous Openland Nonstocked 19.0 0 Unspecified 413 - Aspen Range of 10-20 years of aspen ages. Has some BTA that are SL's, needs to be regenerated before it starts to fall apart, some canker started on largest aspen, parts are heavy to red pine, white pine, or oak OR mix of all three (possible retention areas?) - Cut January 2020, left scattered oak and pine, monitor for natural regeneration



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>65</b>	4130 - Aspen	Sapling Well	30.2	11	Immature	N/A	Cut in Nov. 2011. Birch poles, oak sawlogs, and red pine sawlogs were left scattered.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Log	15	
Red Pine	8	Log	14	
Black/Red (Hybrid) Oak	2	Sapling	2	
White Oak	3	Log	15	
Red Maple	10	Sapling	2	
Bigtooth Aspen	70	Sapling	3	11
White Pine	2	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Oak	Low	Variable	Sapling
Red Pine	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub

<b>66</b>	42110 - Planted Red Pine	Sawtimber Well	5.1	86	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Pole	8	
White Pine	3	Pole/Log	8	
White Oak	3	Log/Pole/XLog	12	
Black/Red (Hybrid) Oak	3	Log/Pole/XLog	12	
Red Pine	86	Log/Pole	10	86

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

<b>67</b>	330 - Low-Density Trees	Nonstocked	0.7			No	Looks like this was an old barrow pit for Old 27/US-127. Stand is mostly grass covered but a few spots of encroaching oak and jack pine seedlings and saplings. Looks like the stand is used fir target shooting.
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<b>68</b>	6120 - Lowland Cedar	Poletimber Well	10.6	96	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	75	Pole/Log/Sap	8	96
Black Spruce	15	Pole	7	
Red Maple	5	Log/Pole	10	
Tamarack	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Sapling
Labrador Tea	Medium	< 5 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

<b>69</b>	6139 - Mixed Lowland Forest	Poletimber Well	19.7	46	51-80	N/A	Random tag alder potholes and swales throughout. There are patches heavier to maple and aspen, and patches heavier to spruce.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Sapling	5	
Black Spruce	21	Pole/Log/Sap	8	
White Pine	15	Log/Pole	12	
White Oak	1	Log/Pole	10	
Black/Red (Hybrid) Oak	5	Log/Pole	10	
Paper Birch	3	Pole/Sapling	5	
Bigtooth Aspen	21	Pole/Sapling	6	46
Red Maple	22	Pole/Sapling	5	46
Northern White Cedar	2	Log/Pole	12	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>70</b>	42290 - Natural Mixed Pine	Sawtimber Well	1.1	101	201+	N/A	Small stand of pine and hardwoods surrounded by Old 27 and lowland.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	42	Log/XLog/Pole	14	101	Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	15	Log/Pole	12		Black Spruce	Low	Variable	Sapling
White Pine	43	Log/XLog/Pole	14	101	Balsam Fir	Medium	Variable	Sapling

<b>71</b>	6122 - Black Spruce	Poletimber Well	7.6	59	51-80	N/A	Cedar and maple are in a pocket in the northwest portion of the stand.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole/Log	8		Tag Alder	Trace	5 - 10 feet	Tall Shrub
Black Spruce	70	Pole/Sapling	6	59	Balsam Fir	Low	Variable	Sapling
Red Pine	5	Pole/Sapling	5		Black Spruce	Medium	Variable	Sapling
Northern White Cedar	5	Log/Pole	10		Labrador Tea	High	< 5 feet	Tall Shrub
White Pine	18	Pole/Log/Sap	7		Red Pine	Trace	Variable	Sapling

<b>72</b>	42110 - Planted Red Pine	Sawtimber Well	24.8	86	141-170	N/A	Parts of this stand were planted to red, white, and jack pine in 1929, 1934, and 1938. Stand was thinned in 1996 by removing all merchantable hardwoods and jack pine. Density is variable. There is a decent amount of understory regeneration that resulted from that harvest.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	85	Log/Pole/XLog	14	86	Balsam Fir	Medium	Variable	Sapling
White Pine	15	Log/Pole/XLog	12	86	Jack Pine	Low	Variable	Sapling
					Red Maple	Low	Variable	Sapling
					Black/Red (Hybrid) Oak	Low	Variable	Sapling
					White Oak	Medium	Variable	Sapling
					White Pine	Low	Variable	Sapling
					Balsam Fir	Low	Variable	Pole
					Red Pine	Low	Variable	Sapling

<b>73</b>	4130 - Aspen	Poletimber Well	20.7	56		N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole/Log	9	56	Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	3	Log	15		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Pole	7	56	White Pine	Low	Variable	Sapling
Red Maple	5	Pole/Sapling	6	56	Red Maple	Low	>20 feet	Sapling
Black/Red (Hybrid) Oak	15	Log/XLog	16		White Oak	Low	Variable	Sapling
Bigtooth Aspen	67	Pole/Log/Sap	7	56	Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**74**      42250 - Pine, Oak      Sawtimber Well      19.7      59      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	3	Pole/Log	8		White Pine	Medium	Variable	Sapling
White Pine	50	Log/Pole/XLog	10	59	Red Pine	Low	Variable	Sapling
Jack Pine	5	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Black/Red (Hybrid) Oak	34	Log/Pole/XLog	12	79	Jack Pine	Low	Variable	Sapling
White Oak	1	Log/Pole	11		Black Spruce	Low	Variable	Sapling
Red Pine	5	Log/Pole/XLog	12					
Red Maple	1	Pole/Sapling	6					
Paper Birch	1	Pole/Sapling	5					

**76**      4134 - Aspen, Spruce/Fir      Poletimber Well      35.1      51      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
Red Maple	7	Pole/Sap/Log	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Pine	2	Log	12					
Paper Birch	2	Pole/Sapling	5					
Quaking Aspen	2	Pole/Sapling	6	51				
Tamarack	1	Pole	7					
Balsam Fir	10	Pole/Sapling	6					
White Pine	15	Log/XLog	14					
Bigtooth Aspen	44	Pole/Sapling	7	51				
Black/Red (Hybrid) Oak	7	Log/Pole	10					

**77**      6229 - Mixed lowland shrub      Nonstocked      30.5      No

**79**      790 - Other Bare/Sparsely Vegetated      Nonstocked      6.8      No      Road

**80**      4131 - Aspen, Oak      Sapling Well      23.0      28      Immature      N/A      Final harvested in 1994.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	2	Sapling	3		Red Pine	Trace	Variable	Sapling
Red Pine	1	Log/Pole	10		White Oak	Low	Variable	Sapling
White Oak	3	Sapling/Pole	4		White Pine	Low	Variable	Sapling
Red Maple	5	Sapling/Pole	3	28	Balsam Fir	Low	Variable	Sapling
Balsam Fir	1	Pole	6					
Bigtooth Aspen	60	Sapling/Pole	4	28				
White Pine	5	Log/Pole	12					
Jack Pine	5	Sapling/Pole	4	28				
Black/Red (Hybrid) Oak	18	Sapling/Pole	3	28				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**81**      6124 - Lowland Spruce-Fir      Poletimber Well      21.1      101      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	2	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
White Pine	2	Log/XLog	16		Black Spruce	Low	Variable	Sapling
Paper Birch	2	Pole/Log	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	1	Pole/Log	8					
Balsam Fir	30	Pole/Sapling	6	101				
Northern White Cedar	28	Log/Pole	10					
Black Spruce	35	Pole/Log/Sap	7	101				

**82**      42210 - Natural Red Pine      Sawtimber Well      4.0      110      111-140      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Log/XLog	17		Black Spruce	Low	Variable	Sapling
Jack Pine	5	Log	12		Red Maple	Low	>20 feet	Sapling
Red Pine	60	Log/XLog/Pole	14	110	Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	3	Pole/Log	8		Red Maple	Trace	>20 feet	Pole
Black/Red (Hybrid) Oak	8	Log/Pole	12		White Pine	Medium	Variable	Sapling
Paper Birch	1	Pole/Sapling	6					
Red Maple	3	Pole/Log	8					

**84**      4310 - Pine, Oak Mix      Sawtimber Well      19.0      57      111-140      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	2	Pole/Log	9		Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	30	Pole/Log	9	96	Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	40	Log/Pole/XLog	12	57	Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Oak	10	Log/Pole	12	96	White Pine	Low	Variable	Sapling
Red Pine	5	Log/Pole/XLog	13					
Balsam Fir	5	Pole	6					
Red Maple	5	Pole/Log/Sap	7					
Bigtooth Aspen	3	Log/Pole	12					

**86**      4122 - Oak, Pine      Sawtimber Poor      19.7      102      51-80      N/A

Everything but white oak and white pine was cut in 2020.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	60	Log/Pole	13	102	Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	40	Log/Pole	10		White Pine	Low	Variable	Sapling
					White Oak	Low	Variable	Sapling
					Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>87</b>	330 - Low-Density Trees	Nonstocked	11.4		Immature	4222 - Natural Jack Pine	Cut 2020. small pocket of red pine in the middle that was thinned.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Jack Pine		90	Pole/Sapling	6	56	Red Pine	
Balsam Fir		1	Pole	6		Low	
Red Pine		4	Pole	8	56	>20 feet	
Bigtooth Aspen		2	Pole	7		Log	
White Spruce		2	Pole	6	56		
Black Spruce		1	Pole	6			
<b>88</b>	629 - Mixed non-forested wetland	Nonstocked	1.3		Immature	No	Lowest spot of an old barrow pit
<b>89</b>	4131 - Aspen, Oak	Sapling Well	19.3	20	Immature	N/A	Cut summer 2002. Upland is aspen and other hardwoods, lower ground is swamp conifers with red maple.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Pin Cherry		5	Sapling	3		Tag Alder	
Balsam Fir		5	Sapling/Pole	4		Trace	
White Pine		5	Pole/Sapling	6		Low	
Bigtooth Aspen		38	Sapling/Pole	3	20	Variable	
Black/Red (Hybrid) Oak		29	Sapling/Pole	3		Sapling	
Red Maple		8	Sapling	3		Low	
Quaking Aspen		10	Sapling	3		Variable	
						Sapling	
<b>90</b>	6113 - Lowland Maple	Sawtimber Well	17.4	98	111-140	N/A	Floodplain of Wolf Creek. Standing dead ash in canopy. White pine Xlogs and white pine and balsam fir understory are along edge of stand that transitions into upland.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		1	Log/Pole	10		Red Maple	
Balsam Poplar		1	Log	12		Low	
Red Maple		97	Log/Pole	13	98	Medium	
White Pine		1	XLog/Log	20		Variable	
						Sapling	
						Low	
						Variable	
						Sapling	
						Low	
						>20 feet	
						Pole	
						>20 feet	
						Sapling	
<b>91</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	23.0	30	Immature	N/A	Cut spring 1992. High ground is aspen and oak, lower ground is lowland conifers and red maple. Stand was originally scheduled to roller chop and seed jack pine but it doesn't look like this was ever done.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		20	Sapling/Pole	4	30	Tag Alder	
White Pine		10	Pole/Sapling	6		Medium	
Black/Red (Hybrid) Oak		10	Sapling/Pole	4		Low	
Bigtooth Aspen		20	Pole/Sapling	5		Variable	
Black Spruce		5	Pole/Sapling	5		Tall Shrub	
Red Maple		15	Sapling/Pole	3		Sapling	
Balsam Fir		15	Pole/Sapling	5			
Jack Pine		3	Pole/Sapling	6			
Pin Cherry		2	Sapling	3			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**92** 629 - Mixed non-forested wetland Nonstocked 1.1 No Possibly old borrow pit for US-127 construction.

**93** 6220 - Alder/willow Nonstocked 4.7 No

**94** 6120 - Lowland Cedar Poletimber Well 28.9 96 Unspecified N/A Cedar swamp with a few areas of lowland hardwoods and other lowland conifers.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	XLog	18		Red Maple	Low	Variable	Sapling
Paper Birch	5	Pole	7		Balsam Fir	Medium	Variable	Sapling
Red Maple	5	Pole/Log/Sap	7					
Balsam Fir	10	Sapling/Pole	4					
Quaking Aspen	5	Pole	8					
Tamarack	5	Pole	6					
Northern White Cedar	65	Pole/Log	8	96				

**95** 4130 - Aspen Sapling Well 39.3 7 Immature N/A Large white oak and a few large pine left. Cut late 2014 as a part of 71-014-013 "Wraco Aspen"

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Sapling	1	7
Pin Cherry	5	Sapling	1	
White Oak	5	XLog/Log	18	
White Pine	1	Log/XLog	16	
Red Pine	1	Log	14	
Bigtooth Aspen	67	Sapling	2	7
Red Maple	15	Sapling	1	7
Black/Red (Hybrid) Oak	1	Log/XLog	15	

**96** 6112 - Lowland Aspen Poletimber Well 38.7 57 N/A Stand gets noticeably wetter as it gets closer to the lowland stands surrounding Wolf Creek. There is a decent amount of standing dead ash in the wetter areas. Portions of this stand could be cut, but overall it is just too wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	1	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6		Tag Alder	Medium	Variable	Tall Shrub
Paper Birch	2	Pole/Sapling	6					
Quaking Aspen	60	Pole/Sap/Log	7	57				
Balsam Poplar	25	Pole/Log	8	57				
Red Maple	7	Pole/Sap/Log	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**97** 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 18.5 59 111-140 N/A retain as SCA buffer along riparian corridor

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	14	Pole/Log/Sap	8		Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	7	Log	14		White Pine	High	Variable	Sapling
White Pine	50	Log/Pole/XLog	12	59				
Black/Red (Hybrid) Oak	10	Pole/Log	8					
Red Pine	14	Log/Pole/XLog	12					
Green Ash	1	Log/Pole	12					
Northern White Cedar	1	Log/Pole	10					
Quaking Aspen	3	Log/Pole	10					

**98** 6113 - Lowland Maple Sawtimber Poor 16.4 96 1-50 N/A Lowland adjacent to Wolf Creek. Red maple and dead ash with marsh grass or tag alder in understory, retain as riparian corridor SCA.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	100	Log/Pole	12	96	Tag Alder	High	Variable	Tall Shrub

**99** 4311 - Pine, Aspen Mix Poletimber Well 4.2 35 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	20	Pole/Log/Sap	7	
Black Cherry	5	Pole/Sapling	7	
White Pine	25	Pole/Log/Sap	7	35
Red Maple	5	Sapling/Pole	4	
Bigtooth Aspen	25	Pole/Sapling	7	35
Black/Red (Hybrid) Oak	20	Pole/Sap/Log	6	

**100** 330 - Low-Density Trees Nonstocked 1.8 Immature No

**101** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 33.2 15 Immature N/A Cut 2007, left some white pine poles for visual along the road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling	3		Tag Alder	Low	10 - 20 feet	Tall Shrub
White Pine	5	Sapling	3					
Bigtooth Aspen	28	Sapling	3	15				
Red Maple	15	Sapling	2	15				
White Pine	9	Pole/Log	8					
Black/Red (Hybrid) Oak	31	Sapling	2	15				
Red Pine	2	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**102**      4125 - Black, N. Pin Oak      Poletimber Well      5.0      56      1-50      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	9	Pole	7	56	Pin Cherry	Low	Variable	Tall Shrub
Black/Red (Hybrid) Oak	75	Pole/Log/Sap	7	56	Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	3	Pole	7					
Bigtooth Aspen	13	Log/Pole	10	56				

**103**      6112 - Lowland Aspen      Sawtimber Well      27.9      101      81-110      N/A      Stand gets wetter as it gets closer to Wolf Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	1	Log/Pole	12		Red Maple	Low	Variable	Sapling
Balsam Fir	10	Pole/Sapling	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	5	Log/Pole	10	101	Balsam Fir	High	Variable	Sapling
Bigtooth Aspen	5	Log/Pole	12					
Red Maple	22	Log/Pole	13					
Northern White Cedar	15	Log/Pole	10	101				
White Pine	1	Log/Pole	12					
Quaking Aspen	40	Log/Pole	10	101				
American Elm	1	Log	12					

**104**      629 - Mixed non-forested wetland      Nonstocked      35.3                No      SCA - riparian corridor. Wolf creek runs through the stand.

**105**      4319 - Mixed Upland Forest      Sawtimber Well      26.3      101      111-140      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Log/Pole	11		White Pine	Medium	>20 feet	Pole
White Pine	2	XLog	30		Balsam Fir	High	Variable	Sapling
Red Pine	5	Log/Pole	13		White Pine	Medium	Variable	Sapling
White Pine	38	Log/Pole	12	101				
Black/Red (Hybrid) Oak	10	Log/Pole	13					
Red Maple	25	Log/Pole	13					
Paper Birch	5	Log/Pole	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**106** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 30.4 100 1-50 N/A Stand is very wet and contains a flowing stream, not operable, retain as part of riparian corridor SCA

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	29	Log/Pole	12	100	Tag Alder	Low	Variable	Tall Shrub
Balsam Fir	15	Pole/Sapling	5					
Northern White Cedar	10	Pole/Log	8					
Basswood	25	Log/Pole	13					
Balsam Poplar	5	Log/Pole	10					
American Elm	1	Pole/Log	9					
Red Maple	10	Log/Pole	10					

**107** 6123 - Lowland Fir Sapling Poor 21.4 101 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	50	Sapling/Pole	3	101	Cattail spp.	Full	Unspecified	Non-Wood
Balsam Fir	5	Pole	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Paper Birch	25	Sapling	3					
Northern White Cedar	20	Pole/Log	9					

**108** 4136 - Aspen, Mixed Conifer Sawtimber Well 48.4 59 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Balsam Poplar	5	Log/Pole	11		Tag Alder	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	30	Log/Pole	11	59	Pin Cherry	Low	Variable	Sapling
Quaking Aspen	35	Log/Pole	10	59	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Log/Pole	13		Balsam Fir	Low	>20 feet	Pole
Balsam Fir	10	Pole/Sapling	6		Red Maple	Low	>20 feet	Sapling
Red Maple	5	Log/Pole	13		Black Ash	Low	5 - 10 feet	Sapling

**109** 6229 - Mixed lowland shrub Nonstocked 57.8 Immature No

**110** 4126 - White, Black, N. Pin Oak Sawtimber Medium 45.0 104 81-110 N/A Parts of this stand were thinned in 1994. Black/red hybrid oak is declining and of mostly of poor quality.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	4	Pole/Sapling	5	27	Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	8	Pole/Log/Sap	7		White Pine	Medium	Variable	Sapling
Red Pine	5	Pole/Log/Sap	8		Red Maple	Low	Variable	Sapling
Red Maple	5	Pole/Sapling	5		White Oak	Medium	Variable	Sapling
Bigtooth Aspen	6	Log/Pole	12		Bigtooth Aspen	Low	Variable	Sapling
White Oak	37	Log/XLog	14	104	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	35	Log/XLog	14	104				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
111	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	18.1	104		N/A	Long narrow stand with intermittent stream. Species composition varies.																																																							
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>20</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>20</td> <td>Pole</td> <td>7</td> <td>104</td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>20</td> <td>Log/Pole</td> <td>10</td> <td>104</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Pole/Log	8		Balsam Fir	20	Pole	6		Northern White Cedar	20	Pole	7	104	White Pine	20	Pole	8		Quaking Aspen	20	Log/Pole	10	104			<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub																			
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112	4126 - White, Black, N. Pin Oak	Sawtimber Poor	66.7	104	1-50	N/A	Cut 2007, left white oak and an area of white pine in the southern finger.																																																							
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113	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	18.2	104	81-110	N/A	Stand grades into the lowland to the east and south. There is an old wire fence that runs North and South through the stand. Retain as SCA buffer along riparian corridor																																																							
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114	629 - Mixed non-forested wetland	Nonstocked	7.3			No	beaver flooding																																																							
115	4130 - Aspen	Sapling Well	18.5	7	Immature	N/A	Cut late 2014 as a part of 71-014-013 "Wraco Aspen". The eastern arm of this stand was left as retention when cut.																																																							
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117	629 - Mixed non-forested wetland	Nonstocked	14.2			No	Mostly lowland shrubs with some pockets of trees here and there																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>118</b>	4311 - Pine, Aspen Mix	Sawtimber Well	7.5	121	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	28	Log/Pole	10	101
White Pine	50	Log/XLog/Pole	13	121
Red Pine	2	XLog/Log	18	
Black/Red (Hybrid) Oak	10	Log	16	
Paper Birch	5	Log	10	
Red Maple	5	Pole	6	

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

<b>119</b>	330 - Low-Density Trees	Nonstocked	4.2			Managed Opening	managed wildlife opening
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Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	>20 feet	Log
Black/Red (Hybrid) Oak	Low	>20 feet	Log

<b>120</b>	429 - Mixed Upland Conifers	Poletimber Well	10.3	101	81-110	N/A	Narrow transition stand between upland and lowland.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	2	Pole	7	
Black/Red (Hybrid) Oak	20	Log/Pole	11	101
Balsam Fir	15	Pole	7	
Red Pine	2	Log	12	
White Pine	41	Log/Pole/XLog	12	101
Bigtooth Aspen	5	Pole	7	
Red Maple	15	Pole/Log	9	

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

<b>122</b>	42220 - Natural Jack Pine	Poletimber Well	1.9	44		N/A	Stand was roller-chopped in 1978 resulting in good jack pine regeneration. High water table.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	1	Pole	7	
Jack Pine	95	Pole	7	44
Red Maple	3	Pole/Sapling	6	
Black/Red (Hybrid) Oak	1	Log/Pole	10	

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

<b>123</b>	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	11.4	57		N/A	Appears to be jack pine planted in an old barrow area. There is a ridge of pushed up soil around the outside of this stand with a few rows of saw sized red pine planted on it. There are a few areas of aspen, maple, and balsam fir where the jack pine did not get established on the west side of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Log	12	
Red Maple	10	Pole	5	
Paper Birch	1	Pole/Sapling	5	
Jack Pine	65	Pole	7	57
Red Pine	2	Log	13	
Quaking Aspen	15	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Trace	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	Low	Variable	Sapling
White Oak	Trace	5 - 10 feet	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**124** 6229 - Mixed lowland shrub Nonstocked 2.1 0 No Small wet pothole with marsh grass and tag alder, scattered areas heavy to aspen.

**125** 4130 - Aspen Poletimber Well 27.7 43 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	5	Log/Pole	10		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	8	Pole/Sapling	6		Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	2	Pole/Log/Sap	9		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	35	Pole/Log	8		Pin Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen	35	Pole/Log/Sap	7	43				

**126** 4134 - Aspen, Spruce/Fir Poletimber Well 6.1 57 51-80 N/A More upland to the north but looks like the south end gets lower/wetter as it grades into the marsh to the south. Stand is bisected north to south with a pipeline.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	30	Pole	7		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	50	Pole/Log	9	57	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	20	Pole	8					

**128** 629 - Mixed non-forested wetland Nonstocked 22.1 No

**129** 4130 - Aspen Sawtimber Well 3.2 61 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Log/Pole	10		Red Maple	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	5	Log/Pole	10		White Pine	Low	Variable	Sapling
White Pine	5	Log	14		Balsam Fir	Low	Variable	Sapling
Red Maple	10	Log/Pole/Sap	11					
Balsam Fir	10	Pole/Log/Sap	8					
Bigtooth Aspen	65	Log/Pole	13	61				

**130** 629 - Mixed non-forested wetland Nonstocked 5.4 No

**131** 4130 - Aspen Sawtimber Well 1.3 61 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	7		White Pine	Low	Variable	Sapling
White Pine	5	Log/Pole	13		Balsam Fir	Low	Variable	Sapling
Black/Red (Hybrid) Oak	15	Log/Pole	13		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Bigtooth Aspen	75	Log/Pole	10	61	Red Maple	Low	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**132**      6113 - Lowland Maple      Sapling Poor      3.0      32      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Sapling/Pole	3		Tag Alder	Full	10 - 20 feet	Tall Shrub
Paper Birch	10	Sapling/Pole	3					
Black Spruce	5	Pole/Sapling	7					
Balsam Fir	5	Pole/Sapling	7					
Red Maple	70	Sapling/Pole	4	32				

**133**      4319 - Mixed Upland Forest      Sapling Well      6.3      28      1-50      N/A      Shelterwood harvest in 1994, stand is now two-aged.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Sapling/Pole	4	
Black/Red (Hybrid) Oak	10	Log	15	101
Red Pine	3	Log/XLog	17	
Red Maple	19	Sapling/Pole	4	
White Pine	19	Sapling/Pole	4	
Bigtooth Aspen	19	Sapling/Pole	4	28
Red Maple	4	Log	14	
White Oak	1	Log	11	
White Pine	10	Log	16	

**134**      4130 - Aspen      Poletimber Well      50.4      28      1-50      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	83	Pole/Sapling	5	28	Black Cherry	Low	Variable	Sapling
Black Cherry	1	Sapling	3		White Oak	Low	Variable	Sapling
White Oak	1	Pole/Sapling	5		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Balsam Fir	1	Pole	6		Balsam Fir	Low	Variable	Sapling
Red Maple	1	Pole/Sapling	5		White Pine	Low	Variable	Sapling
Paper Birch	1	Sapling/Pole	4		Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	1	Pole	7					
Quaking Aspen	10	Pole/Sapling	5	28				
Black/Red (Hybrid) Oak	1	Pole/Sapling	5					

**135**      6124 - Lowland Spruce-Fir      Poletimber Medium      10.2      81      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Red Pine	5	Log/XLog	16		Red Maple	Low	>20 feet	Sapling
Northern Pin Oak	3	Pole	6		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black Spruce	30	Pole/Log	8	81	Tag Alder	Low	10 - 20 feet	Tall Shrub
White Pine	10	Log/Pole/XLog	14		White Pine	Low	Variable	Sapling
White Oak	2	Pole	7					
Balsam Fir	25	Pole/Sapling	6	81				

There is an illegal road that goes through this stand to the private parcel to the south. This is a lowland stand and there is a lot of rutting on this road. Recommend closing it off at the edge of the aspen stand to the north.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>136</b>	6220 - Alder/willow	Nonstocked	4.3			No																																																							
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<b>137</b>	6120 - Lowland Cedar	Sawtimber Well	9.5	128	201+	N/A	Nice stand, healthy trees. Scattered super canopy white pine. Balsam fir saplings in open areas from blowdown.																																																						
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<b>138</b>	6120 - Lowland Cedar	Poletimber Medium	55.6	140	81-110	N/A	Scattered super canopy white pine.																																																						
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Pole/Sap/Log</td> <td>8</td> <td></td> <td>Tag Alder</td> <td>Low</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Northern White Cedar</td> <td>70</td> <td>Pole/Log</td> <td>9</td> <td>140</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tamarack</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	5	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling	Balsam Fir	15	Pole/Sap/Log	8		Tag Alder	Low	10 - 20 feet	Tall Shrub	Northern White Cedar	70	Pole/Log	9	140					Tamarack	10	Log/Pole	10														
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<b>139</b>	6139 - Mixed Lowland Forest	Poletimber Poor	10.0	51		N/A																																																							
<b>140</b>	6220 - Alder/willow	Nonstocked	5.6			No																																																							
<b>141</b>	6123 - Lowland Fir	Poletimber Medium	11.7	51	51-80	N/A	Scattered super canopy white pine. Alder dense in places.																																																						
<b>142</b>	6220 - Alder/willow	Nonstocked	18.6			No	Scattered balsam fir.																																																						
<b>143</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	17.3	60	51-80	N/A																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>145</b>	42210 - Natural Red Pine	Sawtimber Well	13.8	92	111-140	N/A	Strip that was left along I-75 from multiple different harvests.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Log/Pole	10		White Pine	Low	Variable	Sapling
Jack Pine	10	Pole	7		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Quaking Aspen	2	Pole/Log	9					
White Pine	15	Log/Pole	10					
Red Pine	63	Log/Pole	12	92				
Red Maple	5	Pole/Log	8					