



# Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71121

Entry Year 2017

Acreage: 1,229

County Roscommon

Management Area: Upper Muskegon

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**Revision Date:** 2015-07-16

**Stand Examiner:** Jason Lewicki

**Legal Description:**

T22N, R02W Sections 22 and 23.

**Identified Planning Goals:**

Maintain current age and species diversity in a range of early and late successional ecosystems as determined by the Upper Muskegon Management Area plan.

**Soil and topography:**

Upland soils consist of Grayling and Croswell sands. Lowlands are primarily Tawas Lupton mucks. Topography is very flat.

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

This area is primarily made up of large blocks of state land with some private land holdings.

**Unique Natural Features:**

None known.

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

None known

**Special Management Designations or Considerations:**

None.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw formations. The Saginaw is quarried for brick making clay elsewhere in the state. Most of the good gravel pits are associated with upland areas. There are no uplands close by and potential appears to be limited. The abandoned Denton Creek Field lies immediately to the southwest of the compartment. The field produced nearly 55,000 bbls of oil from the Devonian Detroit River Group. The entire compartment is currently pending lease for oil and gas exploration and development.

**Vehicle Access:**

Vehicle access on the north and east side of this compartment is very good due to upland soils and multiple forest roads. Vehicle access on the west end is non-existent.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

There are no established recreational facilities in the compartment. The area is mainly used for hunting and other recreational pursuits. The proximity of designated ORV and Snowmobile trails increased the likelihood of unofficial trails occurring within the compartment. Utilize forest management practices to curtail resource damages.

**Fire Protection:**

**Additional Compartment Information:**

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

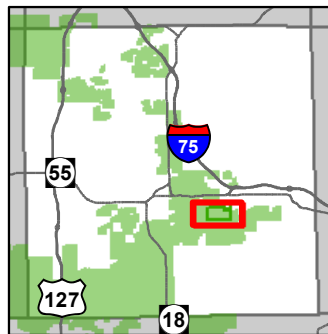
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

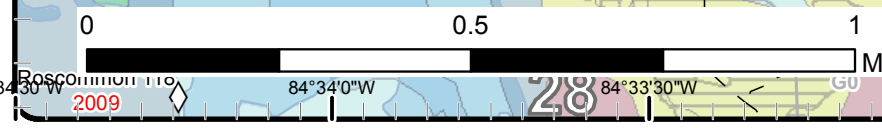
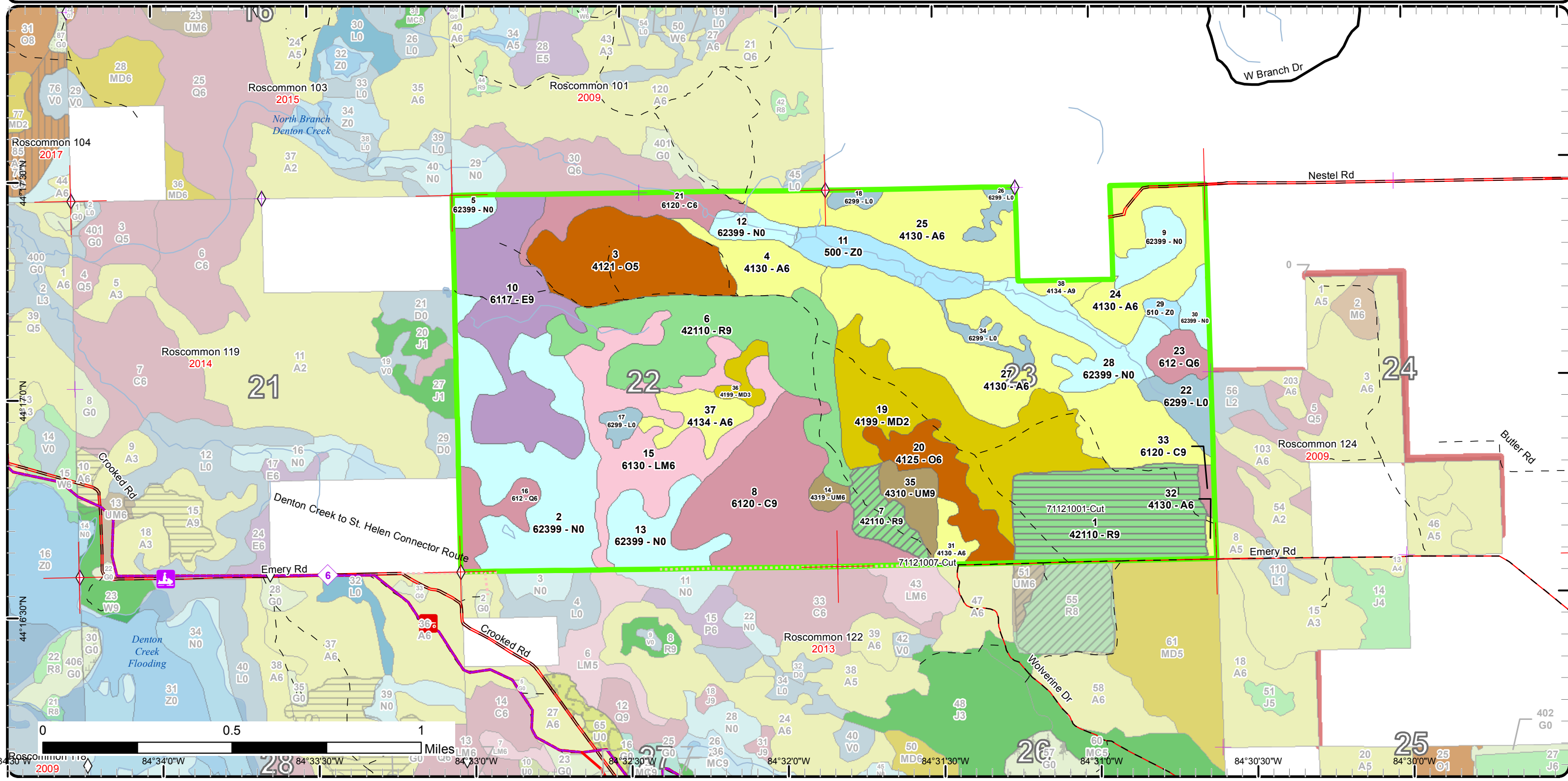
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments

Compartment: 121  
 T22N R02W 22, 23  
 County: Roscommon  
 Unit: Roscommon  
 Mgmt Area: Upper Muskegon  
 YOE: 2017  
 Acres: 1229 GIS Calculated  
 Examiner: Jason Lewicki  
 Map Revised: 7/24/2015  
 Map Phase: Pre-Review

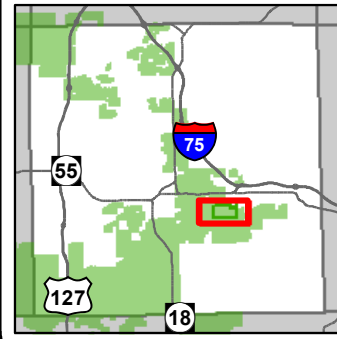


- ✦ Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- ⋯ Closed Roads
- ORV Routes
- Snowmobile Trails
- Designated ATV
- ⋯ Designated ORV Routes
- Designated Snowmobile Trails
- Rivers
- Lakes
- Treatments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Forest Covertype
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Covertype
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland





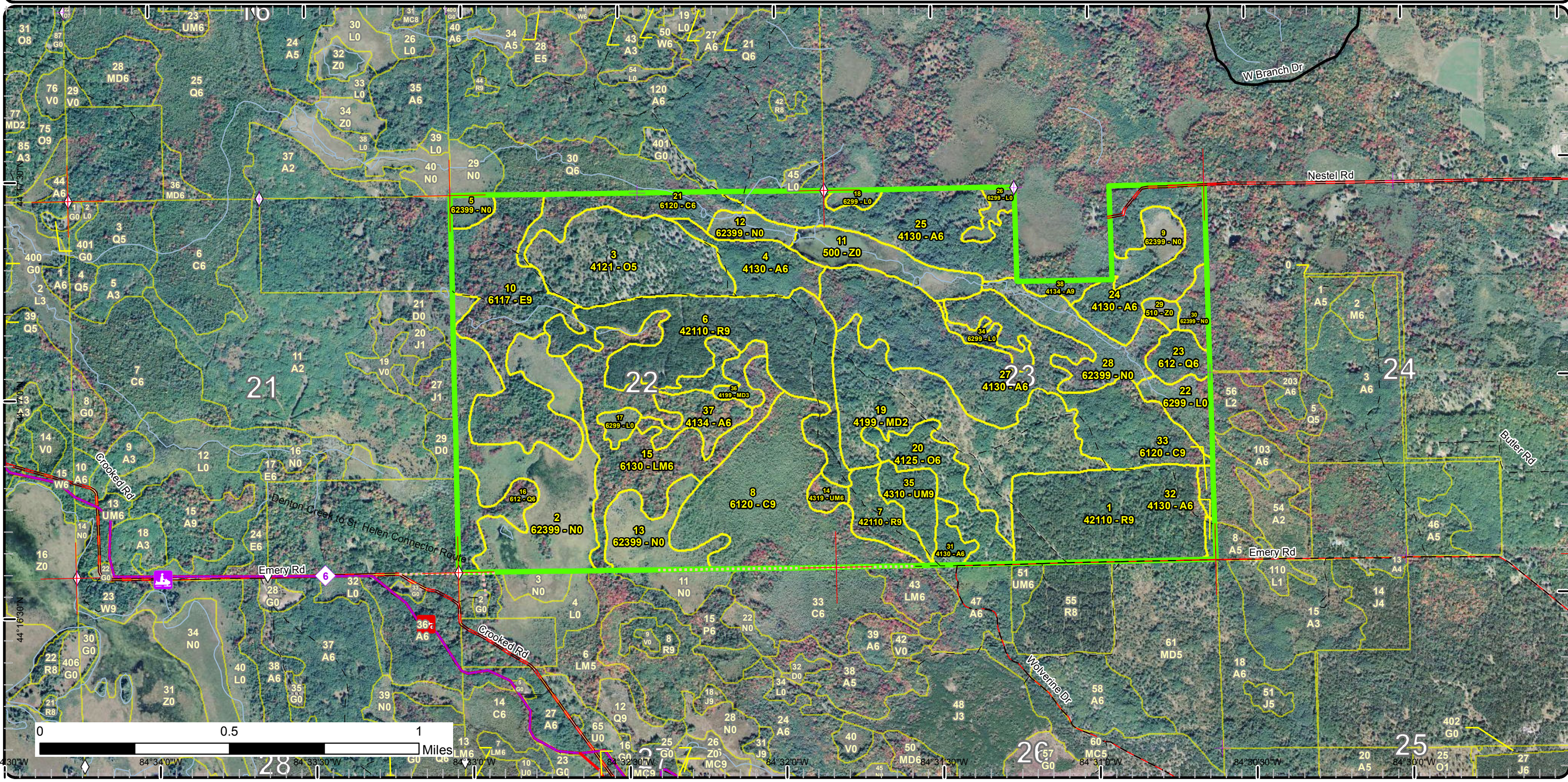
# Stand Boundary Map



Compartment: 121  
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- ORV Routes
- Snowmobile Trails
- Designated ATV
- Designated ORV Routes
- Designated Snowmobile Trails
- Rivers
- Stand Boundaries
- Forest Coverture**
  - 412 - Oak Types
  - 413 - Aspen
  - 419 - Mixed Upland Deciduous
  - 421 - Planted Pines
  - 430 - Upland Mixed Fores
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
- Non-Forest Coverture**
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  - 622 - Lowland Shrub

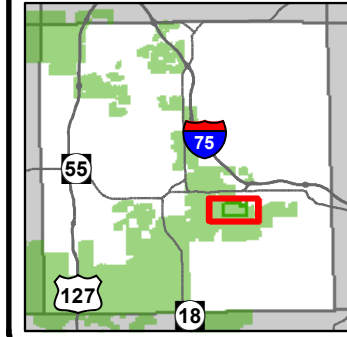
623 - Emergent Wetland



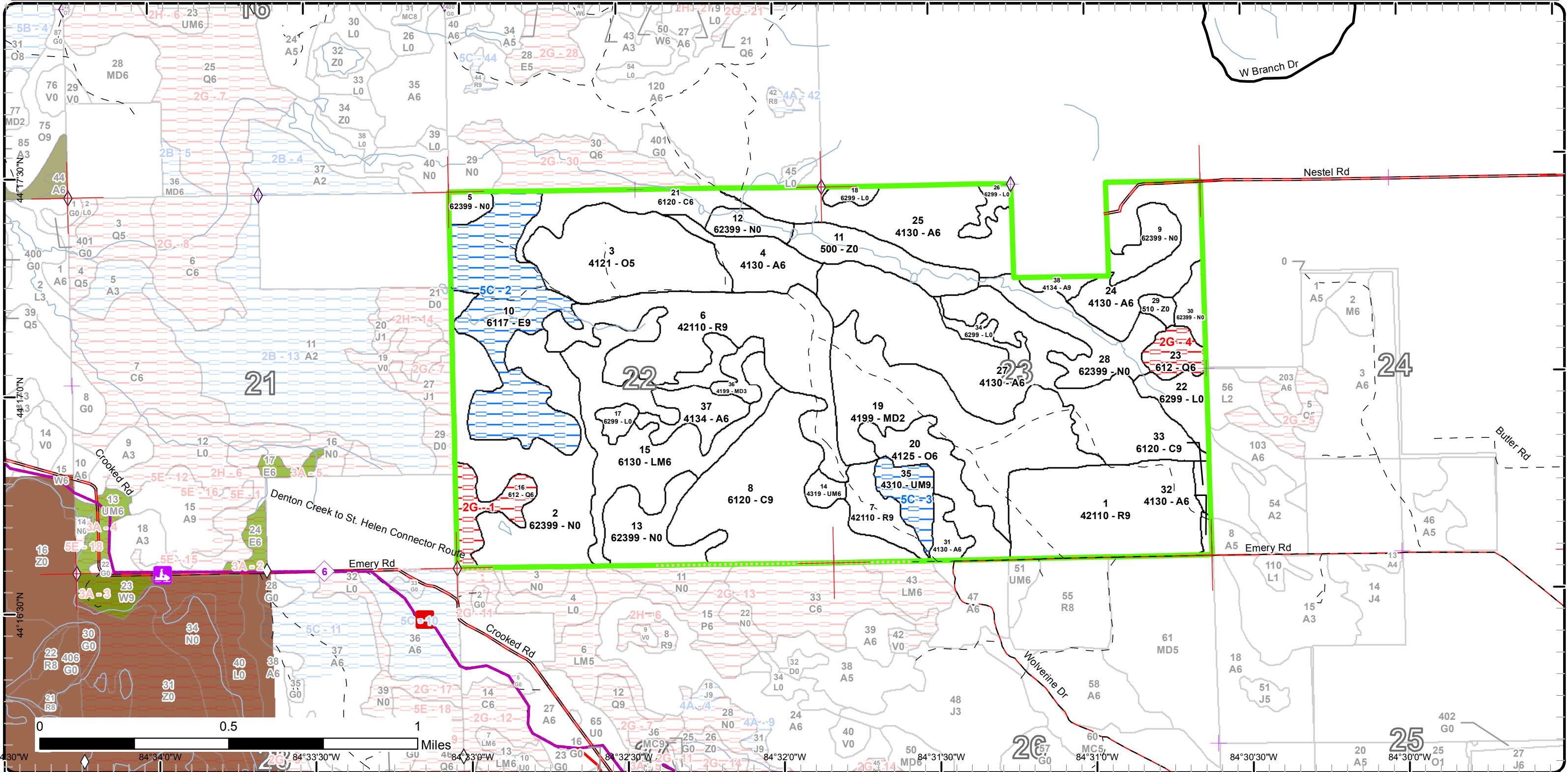


# Special Conservation Areas & Site Conditions Map

Compartment: 121  
 T22N R02W 22, 23  
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 Unit: Roscommon  
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- Snowmobile Trails
- Designated ATV
- Designated ORV Routes
- Designated Snowmobile Trails
- Rivers
- Stand Boundaries
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints**
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors**
- 2G: Too wet (sensitive soils, does not include access issues)
- Special Conservation Areas
- Verified Type 2 Old Growth
- Wildlife Management Areas



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	276	0	0	0	0	4	0	0	0	0	0	0	0	0	280
Cedar	0	0	0	0	0	0	0	0	0	119	0	0	0	0	0	0	0	0	119
Lowland Conifers	0	0	0	0	0	0	0	0	17	11	0	0	0	0	0	0	0	0	28
Lowland Deciduous	0	0	0	0	0	0	0	0	79	0	0	0	0	0	0	0	0	0	79
Lowland Mixed Forest	0	0	0	0	0	0	75	0	0	0	0	0	0	0	0	0	0	0	75
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Marsh	186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	186
Mixed Upland Deciduous	0	0	7	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	97
Oak	0	0	0	29	63	0	0	0	0	0	0	0	0	0	0	0	0	0	92
Red Pine	0	0	0	0	0	0	0	187	0	0	0	0	0	0	0	0	0	0	187
Upland Mixed Forest	0	0	0	0	0	0	0	5	0	0	0	14	0	0	0	0	0	0	19
Water	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
<b>Total</b>	<b>251</b>	<b>0</b>	<b>7</b>	<b>29</b>	<b>429</b>	<b>0</b>	<b>75</b>	<b>192</b>	<b>96</b>	<b>134</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1227</b>



## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2017

Acres of Harvest

Compartment 121  
Total Compartment Acres: 1,229

Commercial Harvest - 95  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Red Pine	78	0	0	0	0	16	0	0	0	95
<b>Total</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>95</b>

### Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	95	0	0	0	0	0	0	0	0	95
Next Step	0	156	78	0	0	78	156	0	0	469
<b>Total</b>	<b>95</b>	<b>156</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>78</b>	<b>156</b>	<b>0</b>	<b>0</b>	<b>564</b>

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1 71121001-Cut	78.2	42110 - Planted Red Pine	Sawtimber Well	65	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription Clear cut stand and plant red pine. Stand will need extensive site prep to set back hardwood competition. Leave retention on the east side near  
Specs: lowland conifer stand.

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

Acceptable Red pine at a fully stocked level.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

7 71121007-Cut	16.4	42110 - Planted Red Pine	Sawtimber Well	65	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Thin red pine down to an average of 80-100 BA. Remove poor quality, high risk oak. Pile some tops and slash along western swamp edge for  
Specs: snowshoe hare habitat.

Next Step  
Treatments:

AcceptableRegen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment  
 Acreage Proposed: 94.6**



## Report 5 – Site Conditions

Roscommon Mgt. Unit  
Jason Lewicki : Examiner

Compartment: 121  
Year of Entry: 2017

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

**5C    2G**

280	280	<b>0</b>	0	Aspen		
119	119	<b>0</b>	0	Cedar		
28	0	<b>0</b>	28	Lowland Conifers		28
79	0	<b>79</b>	0	Lowland Deciduous	<b>79</b>	
75	75	<b>0</b>	0	Lowland Mixed Forest		
36	36	<b>0</b>	0	Lowland Shrub		
177	177	<b>0</b>	0	Marsh		
98	98	<b>0</b>	0	Mixed Upland Deciduous		
93	93	<b>0</b>	0	Oak		
187	187	<b>0</b>	0	Red Pine		
19	5	<b>14</b>	0	Upland Mixed Forest	<b>14</b>	
29	29	<b>0</b>	0	Water		
1,219	1,098	<b>94</b>	28	Total Forested Acres	<b>94</b>	28
	90%	<b>8%</b>	2%	Relative Percent		

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	79	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Roscommon Mgt. Unit

Jason Lewicki : Examiner

Compartment: 121

Year of Entry: 2017

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 6 – 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 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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## Roscommon Mgt. Unit

## Report 8 – Forested Stands

Compartment: 121  
Year of Entry: 2017

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42110 - Planted Red Pine	Sawtimber Well	78.2	65	111-140	Red pine plantation that has been thinned in the past. Stand has very heavy hardwood understory.
4121 - Oak, Aspen	Poletimber Medium	63.4	39	1-50	Somewhat open, low density oak stand with pockets or clones of aspen.
4130 - Aspen	Poletimber Well	22.7	39	1-50	
42110 - Planted Red Pine	Sawtimber Well	92.1	65	111-140	
42110 - Planted Red Pine	Sawtimber Well	16.4	65	141-170	Red pine plantation along swamp edge. Appears to have aspen and maple removed 20+ years ago. 130 average BA on the red pine and 20 BA on the oak.
6120 - Lowland Cedar	Sawtimber Well	91.9	89	Unspecified	Areas of nice quality cedar.
6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	79.3	79	81-110	
4319 - Mixed Upland Forest	Poletimber Well	4.8	65	51-80	Small stand of red maple and balsam fir.
6130 - Fir, Aspen, Maple	Poletimber Well	75.1	55	81-110	Variable stand of balsam fir and maple. Different areas of high and low ground.
612 - Lowland Coniferous Forest	Poletimber Well	16.7	79	111-140	
4199 - Other Mixed Upland Deciduous	Sapling Medium	90.2	39	1-50	Low density cherry brush stand with scattered oak stump sprouts and scattered aspen clones.
4125 - Black, N. Pin Oak	Poletimber Well	29.2	29	1-50	Low density oak pole timber stand with pockets or clones of bigtooth aspen.
6120 - Lowland Cedar	Poletimber Well	23.7	84	111-140	
612 - Lowland Coniferous Forest	Poletimber Well	11.0	89	141-170	
4130 - Aspen	Poletimber Well	43.5	39	81-110	
4130 - Aspen	Poletimber Well	59.5	39	Unspecified	
4130 - Aspen	Poletimber Well	123.8	39	51-80	Mixed aspen stand. Central area has some balsam fir and a higher water table. Some wet bogs and swales that run to the north.

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## Roscommon Mgt. Unit

## Report 8 – Forested Stands

Compartment: 121  
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>31</b>	4130 - Aspen	Poletimber Well	7.4	39	51-80	
<b>32</b>	4130 - Aspen	Poletimber Well	2.0	39	51-80	
<b>33</b>	6120 - Lowland Cedar	Sawtimber Well	3.3	89	111-140	
<b>35</b>	4310 - Pine, Oak Mix	Sawtimber Well	14.3	105	111-140	Older oak with under planting of red pine. Oak is health and can hold for another entry. Pine is just getting to pole timber size.
<b>36</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	7.5	17	Immature	
<b>37</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	16.7	39	51-80	
<b>38</b>	4134 - Aspen, Spruce/Fir	Sawtimber Well	4.4	85	81-110	





Stand	Cover Type	Acres	Managed Site	General Comments:
2	62399 - Marsh (OI)	91.1	No	
5	62399 - Marsh (OI)	5.5	No	
9	62399 - Marsh (OI)	13.9	No	
11	500 - Water	25.8	No	
12	62399 - Marsh (OI)	9.2	No	
13	62399 - Marsh (OI)	27.4	No	
17	6299 - Lowland Shrub (OI)	4.6	No	
18	6299 - Lowland Shrub (OI)	3.8	No	
22	6299 - Lowland Shrub (OI)	14.8	No	
26	6299 - Lowland Shrub (OI)	5.8	No	
28	62399 - Marsh (OI)	31.3	No	
29	510- Water (OI)	3.7	No	
30	62399 - Marsh (OI)	7.9	No	
34	6299 - Lowland Shrub (OI)	6.9	No	