



# Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71149

Entry Year 2017

Acreage: 1,864

County Roscommon

Management Area: Houghton Lake Wetlands

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**Revision Date:** 2015-07-08

**Stand Examiner:** Kevin Ehlert

**Legal Description:**

T21N R4W sections 4, 5, and 6

**Identified Planning Goals:**

Enhance landscape, compartment, and in-stand diversity in a range of early and late successional habitats.

**Soil and topography:**

Topography is generally flat to gently rolling. Soils include Rifle Peat and Lupton Muck in the swamps and lower areas, and Saugutuck Sand and Newton Sand in the upland areas of the compartment. Kotar types include transitions and inclusions of wetland, PArVCo, and PArVHa. Two ~20 ac pockets in section 5 are AFO type. Pre-settlement forest was dominated by mixed conifer swamp, white pine-red pine, and hemlock-white pine forest.

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

A majority of the compartment is state owned and is almost totally surrounded by state land. There is one private property in the southeast quarter of the northeast quarter of section 4 and numerous private parcels to the northeast of the compartment.

**Unique Natural Features:**

Osprey, Bald Eagle, and Boreal brachionyncha have been identified in this compartment. Great blue heron, common loon, slippershell mussel, wood turtle, and massasauga exist in contiguous compartments. Potential exists in the compartment for Blanding's turtle, black tern, yellow rail, king rail, least bittern, American bittern, marsh wren, common moorhen, red-shouldered hawk, and goshawk. Other unique features include Bear Creek Flooding and several Detroit News Reforestation Plantations planted in the 1930's.

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

None known or detected during fieldwork.

**Special Management Designations or Considerations:**

Some potential old-growth has been identified from previous inventory. These areas will be analyzed through the biodiversity planning process.

**Watershed and Fisheries Considerations:**

The dam for the Bear Creek Flooding is located on the west edge of the compartment to the south.

**Wildlife Habitat Considerations:**

Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, bear, rouse, turkeys and rabbits as well as other non-game species. The eastern and edge of this compartment is heavily traveled via Old 27 and US-127 but the center and western portions provide good interior forest cover with various habitats.

**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 400 and 600 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw formations. The Saginaw is quarried for clay elsewhere in the state (Shiawassee Co.). No gravel pits are located in the area and potential may be limited. Headquarters Field is located four miles to the southeast. The field has produced over 11.3 million BO and 4.2 Bcf gas primarily from the Devonian Richfield Formation. It is in secondary recovery operations currently. The majority of the compartment is currently leased or has leases pending and is part of Marathon's current lease play.

**Vehicle Access:**

Seasonal county roads are the only access to the interior of this compartment. Forest roads are in good condition. Sparrow

Rd. is groomed and used as a snowmobile trail in the winter.

**Survey Needs:**

None necessary at this time.

**Recreational Facilities and Opportunities:**

Hunting and trapping opportunities are abundant. The snowmobile trail 6/7 crosses through the western edge of the compartment on Sparrow Road. An MDOT rest area on US 127 is located in the southeast corner. If harvest activities occur during the snowmobile season of December 1 thru March 31 a snow bed must be preserved on Designated Snowmobile Trail. All stumps within 20 feet of the trail shall be Flush-Cut to ensure stumps do not result in unsafe conditions. Assure 'logging ahead' warning signs are placed on the designated trails and snowmobile trails during logging activity

**Fire Protection:**

This compartment has little in the way of hazardous fuel types and has good access for fire suppression. There are numerous natural and man-made fuel-breaks in the compartment.

**Additional Compartment Information:**

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

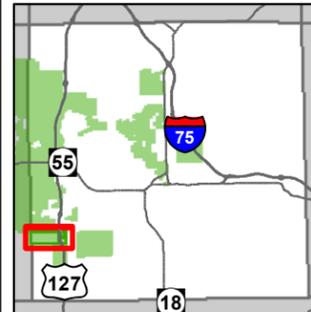
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

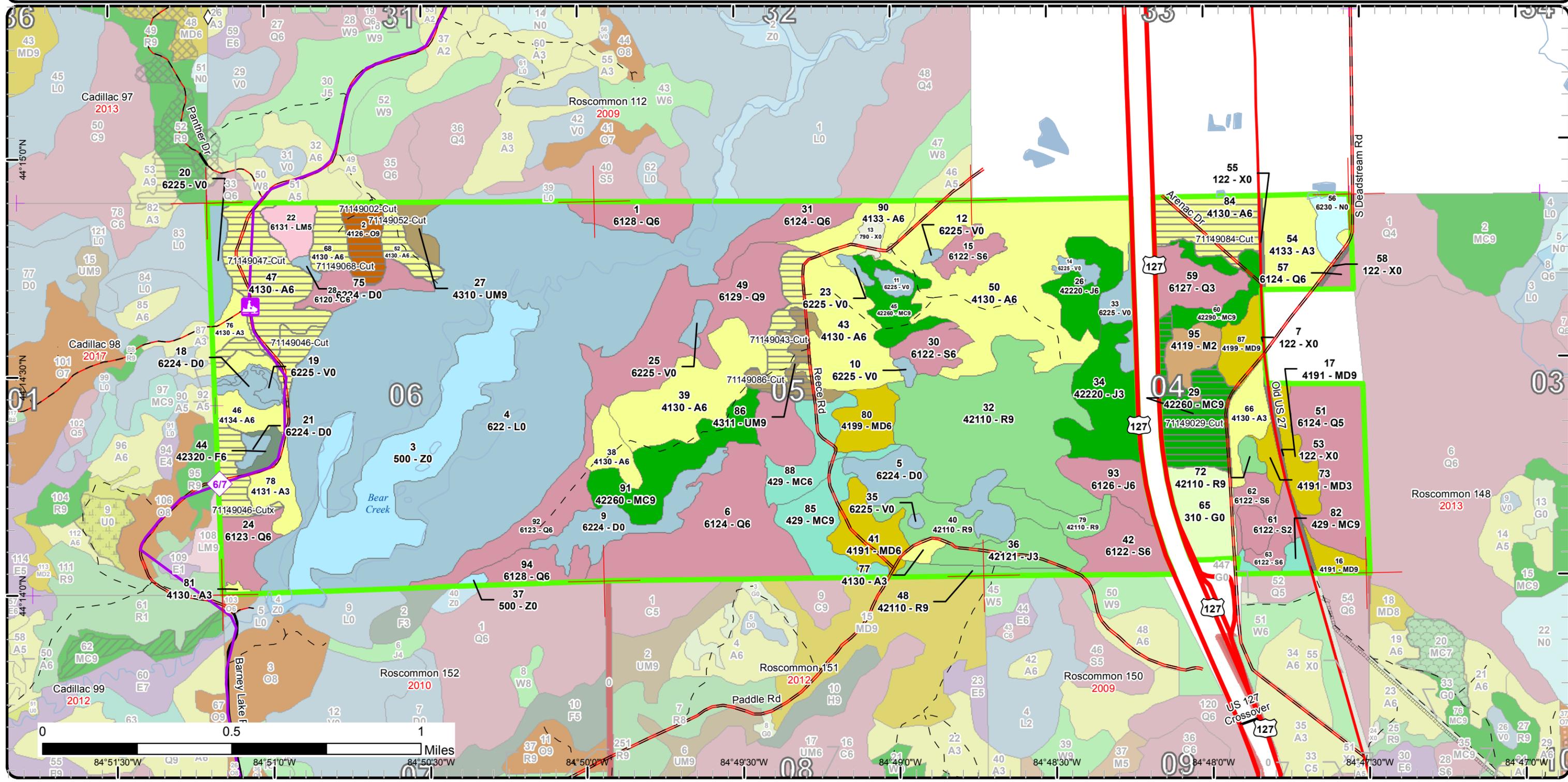
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments

Compartment: 149  
 T21N, R04W 4, 5, 6  
 County: Roscommon  
 Unit: Roscommon  
 Mgmt Area: Houghton Lake Wetlands  
 YOE: 2017  
 Acres: 1864 GIS Calculated  
 Examiner: Kevin Ehler  
 Map Revised: 7/24/2015  
 Map Phase: Pre-Review

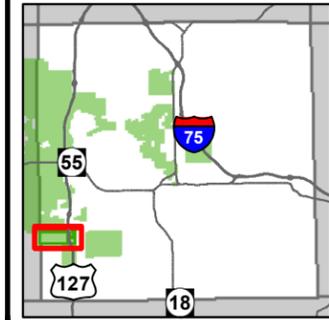


- ✚ Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- 🚙 Snowmobile Trails
- Designated Snowmobile Trails
- Rivers
- Lakes
- Pipeline
- Treatments
- Clearcut (w/Reserves)
- Forest Covertype
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Covertype
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated

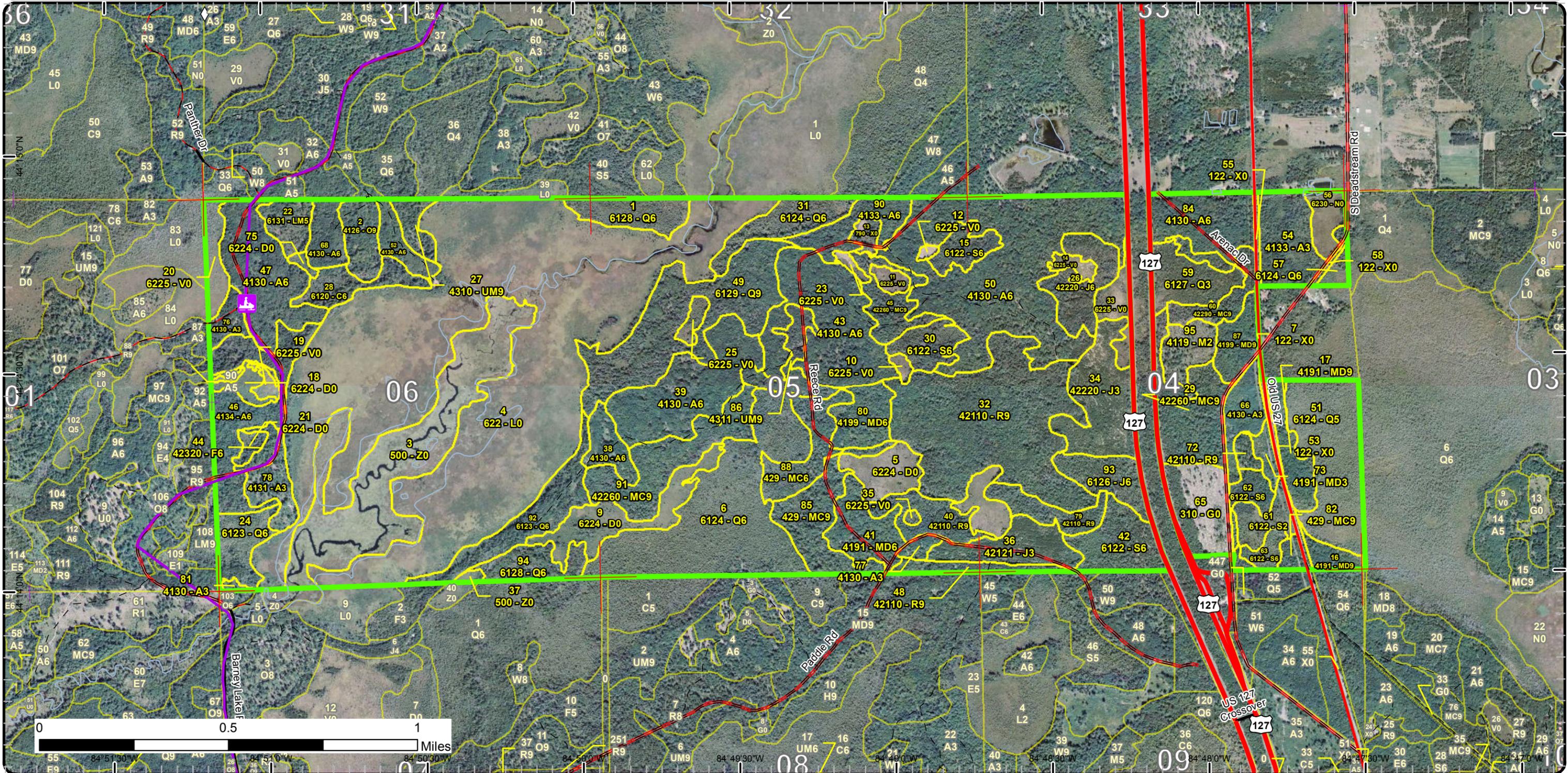


# Special Conservation Areas & Site Conditions Map

Compartment: 149  
 T21N, R04W 4, 5, 6  
 County: Roscommon  
 Unit: Roscommon  
 Mgmt Area: Houghton Lake Wetlands  
 YOE: 2017  
 Acres: 1864 GIS Calculated  
 Examiner: Kevin Ehlert  
 Map Revised: 7/29/2015  
 Map Phase: Pre-Review

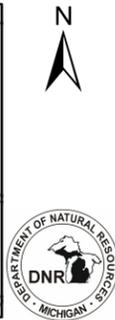
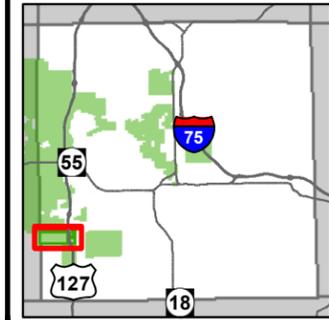


- + Remonumented Section Corners
  - ◇ Field Grade GPS Corners
  - Miris Corners
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - - Poor Dirt Roads
  - - County Poor Dirt Roads
  - - - - Closed Roads
  - Snowmobile Trails
  - Designated Snowmobile Trails
  - Rivers
  - Pipeline
- Stand Boundaries
- | Forest Covertype                | Non-Forest Covertype                |
|---------------------------------|-------------------------------------|
| 411 - Northern Hardwood         | 122 - Roads/Parking Lot             |
| 412 - Oak Types                 | 310 - Herbaceous Openland           |
| 413 - Aspen                     | 500 - Water                         |
| 419 - Mixed Upland Deciduous    | 622 - Lowland Shrub                 |
| 421 - Planted Pines             | 623 - Emergent Wetland              |
| 422 - Natural Pines             | 790 - Other Bare/Sparsely Vegetated |
| 423 - Other Upland Conifers     |                                     |
| 429 - Mixed Upland Conifers     |                                     |
| 430 - Upland Mixed Fores        |                                     |
| 612 - Lowland Coniferous Forest |                                     |
| 613 - Lowland Mixed Forest      |                                     |

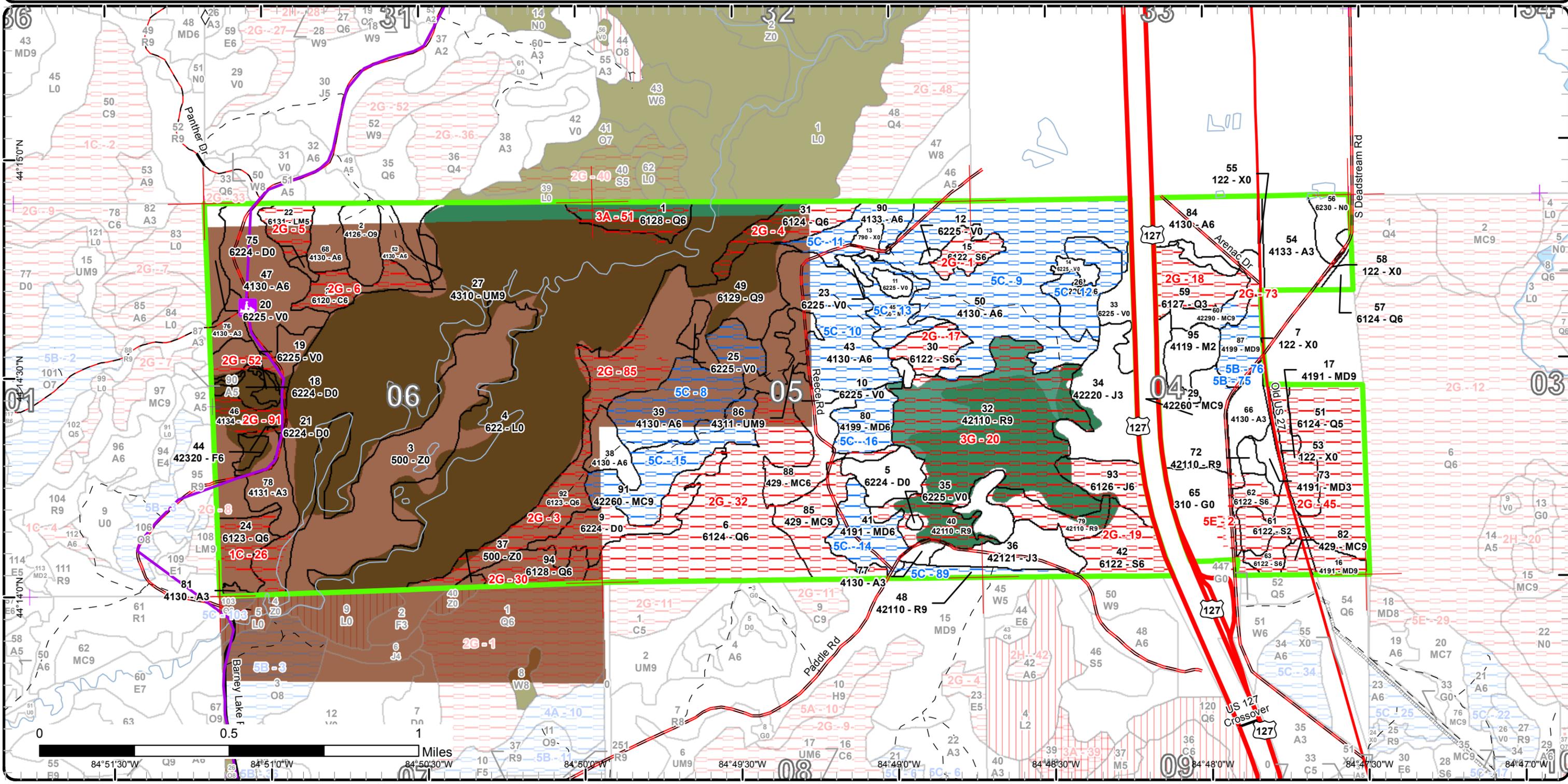


# Special Conservation Areas & Site Conditions Map

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- County Poor Dirt Roads
- Closed Roads
- 🚙 Snowmobile Trails
- Designated Snowmobile Trails
- Rivers
- Pipeline
- ▭ Stand Boundaries
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints**
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors**
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Potential old growth / biodiversity
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- Wildlife Management Areas
- Habitat Corridor



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	12	12	44	0	333	0	0	0	0	0	0	0	0	0	0	0	0	401
Bare/Sparsely Vegetated	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Bog	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	13
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Jack Pine	0	0	0	53	0	0	0	0	34	0	0	0	0	0	0	0	0	0	87
Lowland Conifers	0	0	0	18	0	0	0	0	59	28	191	0	0	0	0	0	0	0	296
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
Lowland Shrub	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	372
Lowland Spruce/Fir	0	0	0	0	0	0	10	0	12	30	12	0	0	0	0	0	0	0	64
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	4	0	0	34	0	0	0	24	6	0	0	0	0	0	0	0	68
Natural Mixed Pines	0	0	0	0	0	0	0	32	14	44	0	0	0	0	0	0	0	0	90
Northern Hardwood	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Oak	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	0	0	0	0	137	0	0	0	0	0	0	0	0	137
Treed Bog	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Upland Conifers	0	0	0	0	0	0	0	0	0	18	5	0	25	0	0	0	0	0	48
Upland Mixed Forest	0	0	0	0	0	0	7	0	0	13	0	0	0	0	0	0	0	0	20
Upland Spruce/Fir	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
<b>Total</b>	<b>601</b>	<b>24</b>	<b>16</b>	<b>115</b>	<b>0</b>	<b>367</b>	<b>17</b>	<b>32</b>	<b>123</b>	<b>294</b>	<b>236</b>	<b>0</b>	<b>25</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1863</b>



## Report 2 – Treatment Summary

Roscommon Mgt. Unit  
Year of Entry: 2017

Acres of Harvest

Compartment 149  
Total Compartment Acres: 1,864

Commercial Harvest - 92  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	51	0	0	0	0	0	0	0	0	51
Natural Mixed Pines	30	0	0	0	0	0	0	0	0	30
Upland Mixed Forest	11	0	0	0	0	0	0	0	0	11
<b>Total</b>	<b>92</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>92</b>

### Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	92	0	0	0	0	0	0	0	0	92
Next Step	0	30	30	0	0	0	123	0	0	183
<b>Total</b>	<b>92</b>	<b>30</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>123</b>	<b>0</b>	<b>0</b>	<b>276</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
29	71149029-Cut	30.3	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	85	111-140	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Proposal

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

Prescription Final harvest all species, leave two half acre retention islands along deadstream road.

Specs:

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

Treatments:

Acceptable Any combination of planted red pine with natural pine or hardwoods to a fully stocked stand.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

43	71149043-Cut	13.2	4130 - Aspen	Poletimber Well	49	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut with no retention in order to expand aspen.

Specs:

Next Step

Treatments:

Acceptable Any combination of hardwoods and conifers to a fully stocked stand.

Regen:

Other use drumming log spec on the sale Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

46	71149046-Cut-South	12.2	4134 - Aspen, Spruce/Fir	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand to regenerate aspen. Retention will be located at northern part of the stand. Leave all white pine to reduce visual impact

Specs: along county road. Also leave out SE arm for retention.

Next Step

Treatments:

Acceptable Any combination of hardwoods and conifers to a fully stocked stand.

Regen:

Other Use drumming log spec Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

84	71149084-Cut	25.3	4130 - Aspen	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand to regenerate aspen. Retention will include a strip along west edge bordering US 127, and also retain a couple islands that

Specs: are heavier to oak and pine.

Next Step

Treatments:

Acceptable Any combination of hardwoods and conifers to a fully stocked stand.

Regen:

Other Use drumming spec Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
86	71149086-Cut	11.5	4311 - Pine, Aspen Mix	Sawtimber Well	80	141- 170	Harvest	Clearcut with Retention	4311 - Pine, Aspen Mix	Even-Aged	Proposal

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

Prescription Final harvest to regenerate aspen. Retention areas heavy to red pine located in the South end and North end of the Stand.

Specs:Next Step

Treatments:

Acceptable Any combination of hardwoods and conifers to a fully stocked stand.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

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**Total Treatment  
Acreage Proposed: 92.3**

## Report 5 – Site Conditions

Roscommon Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 149  
Year of Entry: 2017

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	1C	2G	3A	5E	
402	186	<b>202</b>	13	Aspen		<b>202</b>	0	13			
4	4	<b>0</b>	0	Bare/Sparsely Vegetated							
38	38	<b>0</b>	0	Bog				0			
13	0	<b>0</b>	13	Cedar				13			
24	20	<b>0</b>	3	Herbaceous Openland				2			1
87	53	<b>34</b>	0	Jack Pine		<b>34</b>					
297	56	<b>0</b>	241	Lowland Conifers	<b>0</b>		11	216	14		
10	0	<b>0</b>	10	Lowland Mixed Forest				10			
372	362	<b>0</b>	10	Lowland Shrub			6	2	2		
64	1	<b>21</b>	42	Lowland Spruce/Fir		<b>21</b>		42			
9	9	<b>0</b>	0	Marsh							
68	5	<b>44</b>	19	Mixed Upland Deciduous	<b>11</b>	<b>33</b>		19			
90	40	<b>49</b>	2	Natural Mixed Pines	<b>3</b>	<b>46</b>		2			
12	12	<b>0</b>	0	Northern Hardwood	<b>0</b>						
12	12	<b>0</b>	0	Oak							
137	4	<b>133</b>	0	Red Pine		<b>133</b>					
57	34	<b>0</b>	23	Treed Bog				23			
48	9	<b>0</b>	39	Upland Conifers				39			
20	20	<b>0</b>	0	Upland Mixed Forest				0			
4	3	<b>0</b>	1	Upland Spruce/Fir				1			
8	6	<b>0</b>	2	Urban				2			
89	88	<b>0</b>	0	Water			0	0			
1,864	961	<b>483</b>	419	Total Forested Acres	<b>14</b>	<b>469</b>	17	385	16	1	
	52%	<b>26%</b>	23%	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>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Roscommon Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 149  
Year of Entry: 2017

2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unspecified	1C: Other dept or div proc/practices	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Roscommon Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 149  
Year of Entry: 2017

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	106	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Roscommon Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 149  
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14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is fairly young still. Some parts may be too wet to treat.							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Roscommon Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 149  
Year of Entry: 2017

20	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	126	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	145	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
45	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	92	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
51	<b>Unavailable</b>	<b>3A: Potential old growth / biodiversity</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Roscommon Mgt. Unit  
Kevin Ehlert : Examiner

Compartment: 149  
Year of Entry: 2017

52	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
73	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
75	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
76	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
85	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	20	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
89	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Roscommon Mgt. Unit

Kevin Ehlert : Examiner

Compartment: 149

Year of Entry: 2017

91	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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Stand	Roscommon Mgt. Unit		Report 8 – Forested Stands			Compartment: 149 Year of Entry: 2017
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	14.9	90	81-110	Potential or designated old growth.
2	4126 - White, Black, N. Pin Oak	Sawtimber Well	12.5	90	81-110	
6	6124 - Lowland Spruce- Fir	Poletimber Well	84.5	95	51-80	Large lowland area. Contains a lot of deer sign. Most of the cedar is found along the perimeter, then it turns into black spruce/balsam fir/tag alder. The stand also contains some dead ash from EAB.
15	6122 - Black Spruce	Poletimber Well	9.2	85	111-140	West side of the stand is lowest ground and contains a higher composition of black spruce.
16	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.9	90	81-110	West end of the stand is higher ground and contains more oak, the East end turns to lower ground and picks up more black spruce and soft maple.
17	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.6	85	81-110	Stand contains small pockets of aspen throughout, quaking aspen is found in lower spots. Oak is dominant in most of the stand when aspen is not present. East end of stand gets lower as it transitions into the bog.
22	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Medium	9.8	90	81-110	Contains a lot of standing dead ash from EAB.
24	6123 - Lowland Fir	Poletimber Well	14.6	90	Unspecified	Contains standing dead ash from Emerald Ash Borer.
26	42220 - Natural Jack Pine	Poletimber Well	19.0	70	81-110	High water table jack pine stand. Leatherleaf and Labrador tea present. Harvest would be best in late summer with dry conditions.
27	4310 - Pine, Oak Mix	Sawtimber Well	7.0	50	111-140	East half of stand is lower ground containing cedar as it transitions into the marsh.
28	6120 - Lowland Cedar	Poletimber Well	13.2	125	111-140	Inoperable. Wet, low ground.
29	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	30.3	85	111-140	
30	6122 - Black Spruce	Poletimber Well	11.5	75	81-110	Very wet, low ground.
31	6124 - Lowland Spruce- Fir	Poletimber Well	17.1	95	111-140	Lowland , similar to adjacent stand 49. Transition into the flooding.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	42110 - Planted Red Pine	Sawtimber Well	99.0	85	171-200	Previous inventory says it is a Detroit news plantation, but no planting records found. The stand doesn't appear to have plantation rows. Good opportunity in this stand for big tree management. Observed several large nests. Hardwood pockets found, scattered lower ground areas. Black spruce found in the north end of the stand.
34	42220 - Natural Jack Pine	Sapling Well	33.1	24	Immature	Stand was clear-cut in 1991 and regenerated naturally. Leatherleaf bog type soils are very susceptible to rutting, but appear to have recovered. Stand has good stocking, but is still immature.
36	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	19.8	24	Immature	Seeded jack pine stand.
38	4130 - Aspen	Poletimber Well	10.1	20	Immature	Stand contains a pocket of declining quaking aspen and a pocket of black spruce in the West end. The rest of the stand is nicely regenerated bigtooth aspen. Too young for treatment at this time.
39	4130 - Aspen	Poletimber Well	43.5	49	Unspecified	
40	42110 - Planted Red Pine	Sawtimber Well	14.7	85	171-200	Previous inventory says it is a Detroit news plantation, but no planting records found. The stand doesn't appear to have plantation rows. Potential or designated old growth. Stand may have burned at some point, some charred stumps present. Contains inclusions of black spruce and jack pine on transition into adjacent bogs. Look at in spring, possible treatment.
41	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	18.9	40	111-140	Stand contains more red pine and white pine in south end along the road, and they become more scattered to the north.
42	6122 - Black Spruce	Poletimber Well	21.2	80	81-110	Stand is mainly lowland/boggy soil with an approximately 2 acre inclusion of higher ground with mature red pine.
43	4130 - Aspen	Poletimber Well	51.9	49	Unspecified	Contains an inclusion of larger aspen that was left in the previous harvest. Also has scattered pockets of conifer/oak which are more open with less aspen.
44	42320 - Upland Spruce	Poletimber Well	3.9	70	111-140	
45	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	14.3	75	171-200	Small pockets of log size red pine intermixed with areas heavy to jack pine. Recommend holding until adjacent aspen stand is harvested to east or west to allow aspen to be expanded into the stand.
46	4134 - Aspen, Spruce/Fir	Poletimber Well	35.5	49	51-80	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4130 - Aspen	Poletimber Well	37.3	49	Unspecified	Mixed stand of aspen. East edge contains higher risk quaking aspen with a heavy balsam fir sub canopy. Stand contains scattered mature oaks.
48	42110 - Planted Red Pine	Sawtimber Well	8.0	85	171-200	Average 16" red pine, manage with compartment to the south.
49	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	59.4	72	141-170	Natural stand containing some large legacy trees. Signs of fire include fire scars on large red and white pines, and charred snags and stumps. Stand is a mixture of various conifers. One section is dominated by large red and white pines on higher ground. Most of the aspen/oak component can be found on the East end of the stand. Central area of the stand contains an inclusion with quaking aspen that has not reached merchantable size, but appears to be declining.
50	4130 - Aspen	Poletimber Well	105.9	49	Unspecified	
51	6124 - Lowland Spruce-Fir	Poletimber Medium	46.2	90	51-80	Ver wet soils, conifer swamp.
52	4130 - Aspen	Poletimber Well	8.5	49	Unspecified	Mixed aspen stand.
54	4133 - Aspen, Mixed Pine	Sapling Well	24.2	24	Immature	Aspen clearcut, low ground, scattered conifer and oak inclusions.. Tag alder present in low ground.
57	6124 - Lowland Spruce-Fir	Poletimber Well	3.4	85	51-80	Vey wet, conifer swamp.
59	6127 - Lowland Pine	Sapling Well	18.0	23	Immature	Wet soil, stand contains Labrador tea. Appears to be naturally regenerated.
60	42290 - Natural Mixed Pine	Sawtimber Well	13.9	85	81-110	This stand is a mixed conifer stand that was no harvested with stand 95 to the South due to wet sensitive soils.
61	6122 - Black Spruce	Sapling Medium	9.6	50	1-50	Bog containing mostly black spruce saplings and a few larger red maples.
62	6122 - Black Spruce	Poletimber Well	7.0	90	81-110	
63	6122 - Black Spruce	Poletimber Well	5.0	90	111-140	
66	4130 - Aspen	Sapling Well	12.3	13	Immature	NW corner has a higher concentration of jack pine than the rest of the stand.
68	4130 - Aspen	Poletimber Well	10.1	49	Unspecified	
72	42110 - Planted Red Pine	Sawtimber Well	3.1	85	111-140	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	4.4	13	Immature	Stand also contains some larger red pine and black oak retention trees.
76	4130 - Aspen	Sapling Well	6.3	28	Immature	
77	4130 - Aspen	Sapling Well	3.1	24	Immature	
78	4131 - Aspen, Oak	Sapling Well	11.4	5	Immature	Aspen stand regenerated through final harvest. Part of a sale in adjacent compartment, Cadillac unit comp. 98. Scattered oak and pines were left.
79	42110 - Planted Red Pine	Sawtimber Well	12.1	85	141-170	Previous inventory says it is a Detroit news plantation, but no planting records found. The stand doesn't appear to have plantation rows. Potential or designated old growth.
80	4199 - Other Mixed Upland Deciduous	Poletimber Well	14.7	49	141-170	Stand of mixed hard woods with aspen pockets and scattered conifers. The Northwest corner is low ground and contains more of a conifer component.
81	4130 - Aspen	Sapling Well	1.1	5	Immature	Small aspen stand that was final harvested during a sale in an adjacent Missaukee County compartment. Also contains scattered oaks, pines, and cherry trees left for retention.
82	429 - Mixed Upland Conifers	Sawtimber Well	4.7	90	81-110	
84	4130 - Aspen	Poletimber Well	25.3	49	111-140	Aspen stand containing hardwoods and conifers that were left during the last aspen harvest circa 1966. Stand is variable in species composition and diameter throughout due to previous management. Possible harvest.
85	429 - Mixed Upland Conifers	Sawtimber Well	25.4	115	141-170	Stand is mainly upland, with lowland pockets. Stand contains many large white and red pine legacy trees.
86	4311 - Pine, Aspen Mix	Sawtimber Well	13.0	80	141-170	Small red pine stand with aspen and mixed hardwoods, look at in spring for possible harvest or manage with adjacent aspen.
87	4199 - Other Mixed Upland Deciduous	Sawtimber Well	11.7	85	81-110	
88	429 - Mixed Upland Conifers	Poletimber Well	18.4	85	Unspecified	Transition stand from upland to lowland towards stand 6 lowland.
90	4133 - Aspen, Mixed Pine	Poletimber Well	15.2	49	81-110	
91	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	31.9	60	141-170	Look at in spring for possible harvest.

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Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 149  
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
92	6123 - Lowland Fir	Poletimber Well	25.1	85	81-110	
93	6126 - Lowland Jack Pine	Poletimber Well	15.2	75	51-80	High water table jack pine stand.
94	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.6	90	81-110	
95	4119 - Mixed Northern Hardwoods	Sapling Medium	12.3	5	Immature	Naturally regenerated stand after final harvest of red pine.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	500 - Water	87.2	No	
4	622 - Lowland Shrub	372.0	No	
5	6224 - Treed Bog	23.2	No	
7	122 - Road/Parking Lot	1.1	No	
9	6224 - Treed Bog	23.5	No	
10	6225 - Bog	1.8	No	
11	6225 - Bog	3.4	No	
12	6225 - Bog	1.0	No	
13	790 - Other Bare/Sparsely Vegetate	3.8	No	Old well pad.
14	6225 - Bog	3.3	No	
18	6224 - Treed Bog	5.8	No	
19	6225 - Bog	3.2	No	
20	6225 - Bog	9.1	No	
21	6224 - Treed Bog	3.0	No	
23	6225 - Bog	1.8	No	
25	6225 - Bog	3.6	No	
33	6225 - Bog	9.8	No	
35	6225 - Bog	0.8	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
37	500 - Water	1.3	No	
53	122 - Road/Parking Lot	4.0	No	
55	122 - Road/Parking Lot	1.8	No	
56	6230 - Cattail	8.8	No	
58	122 - Road/Parking Lot	1.1	No	
65	310 - Herbaceous Openland	23.5		FTP called for stand to be roller chopped in mid growing season 2011 and hand planted with red pine in spring of 2012. West side of stand contains a strip of retention along US-127, and a small retention island in the SE corner.
75	6224 - Treed Bog	1.5	No	