



# Compartment Review Presentation

## Roscommon Forest Management Unit

Compartment 84

Entry Year 2015

Acreage: 1,229

County Roscommon

Management Area: AuSable Outwash

**Revision Date:** 08/06/2013

**Stand Examiner:** Ben Wiese

**Legal Description:**

T23N R02W Sec. 20 and 21.

**Identified Planning Goals:**

Provide for sustainable ecosystem based management including forest products, wildlife and recreation. Maintain healthy and diverse forested stands. Forest management goals for this year of entry are to regenerate 171 acres of aspen and to thin 47 acres of lowland pine.

**Soil and topography:**

This compartment is part of the Grayling outwash plain, it is relatively flat with lowlands to the east and uplands to the west. There are small isolated bogs spread throughout the east half of the compartment. The soils consist of Tawas Lupton muck and Dawson Loxley peat in the east and Grayling, Crosswell, and Crosswell AuGres throughout the the central and west.

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

The compartment is surrounded by state-owned land. There is a commercial gravel pit in the compartment to the north.

**Unique Natural Features:**

The southeast area of the stand is part of the nine mile muskeg. There is a Great Blue Heron rookery in the northeast part of the stand.

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

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

**Special Management Designations or Considerations:**

None noted.

**Watershed and Fisheries Considerations:**

No comments or aquatic concerns.

**Wildlife Habitat Considerations:**

None noted.

**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 is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. Most of the good gravel pits are associated with upland areas. The nearest gravel pit is located one mile to the north at 9 Mile pit, but potential appears to be limited in the compartment. St. Helen Field lies four miles to the northeast. The field has produced over 8.7 million BO and 14.7 Bcf gas from the Devonian Richfield Formation. It is in secondary recovery operations currently. None of the Compartment is currently leased for oil and gas development.

**Vehicle Access:**

The compartment is bisected by I-75. Vehicle access is limited west of I-75 by a gate. There is a county road that parallels I-75 in the east there are a couple of forest roads that give access but are limited by the lowland conditions.

**Survey Needs:**

None noted.

**Recreational Facilities and Opportunities:**

There are no facilities but opportunities exist for hunting, hiking, foraging and dispersed camping.

**Fire Protection:**

None noted.

**Additional Compartment Information:**

According to GLO notes this compartment was historically dominated by Hemlock forest types.

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

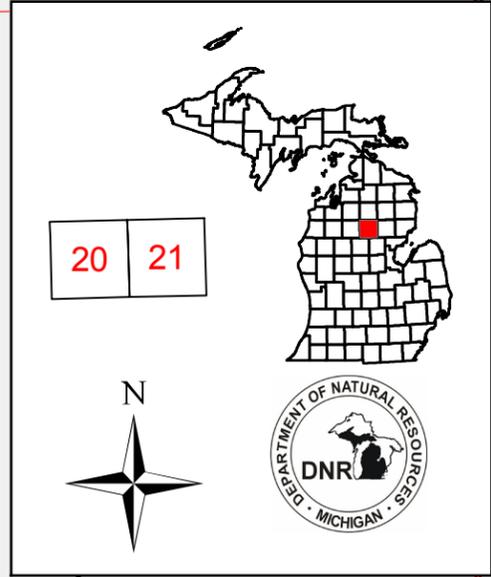
**Total Acres by Cover Type and Age Class**  
**Cover Type by Harvest Method**  
**Proposed Treatments – No Limiting Factors**  
**Proposed Treatments – With Limiting Factors**  
**Stand Details (Forested and Nonforested)**  
**Dedicated and Proposed Special Conservation Areas**  
**Site Condition Details**

**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 & Treatment Map

Compartment: 084  
 T23N R02W  
 Sections 20, 21  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2015  
 Acres: 1,229 GIS Calculated  
 Examiner: Ben Wiese  
 Map Revised: 12/11/2013  
 Map Phase: Web Post



**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

### Legend

- Miris Corners
- Remonumented Section Corners
- PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- ORV Trail
- ORV Trails

### Treatments

- Other Treatment - See Comments
- Thinning (Crown, Low, Systematic)
- Clearcut (w/Reserves, Patch/Strip)
- Treatments w/ Site Condition

### Forest Stands

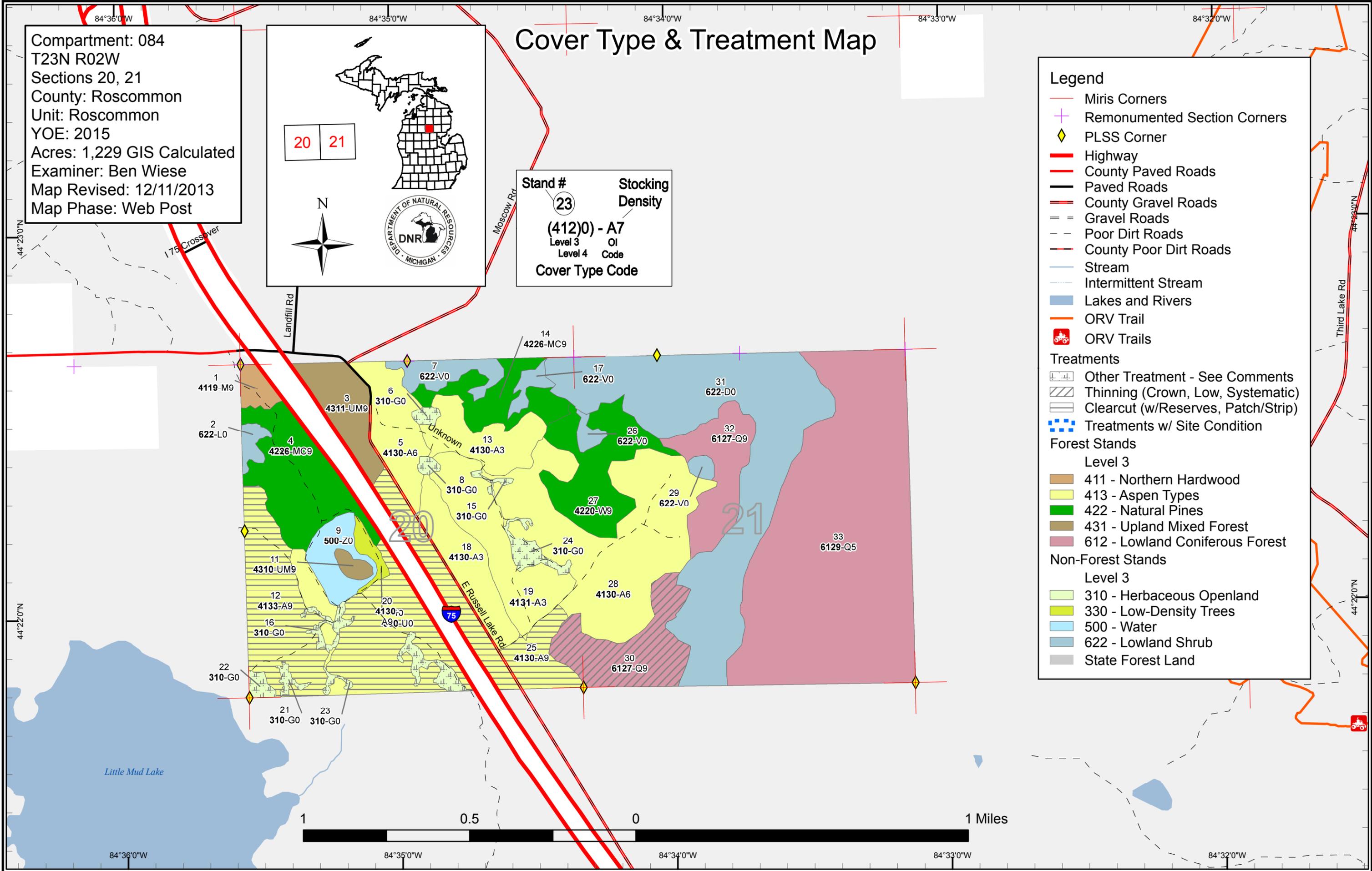
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

### Non-Forest Stands

Level 3

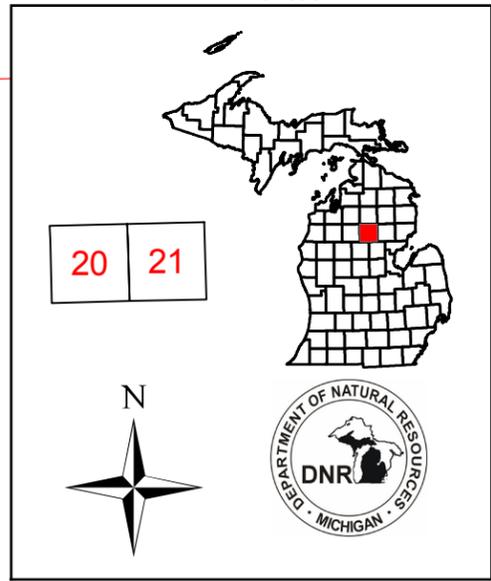
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- State Forest Land





# Special Conservation Areas & Site Conditions Map

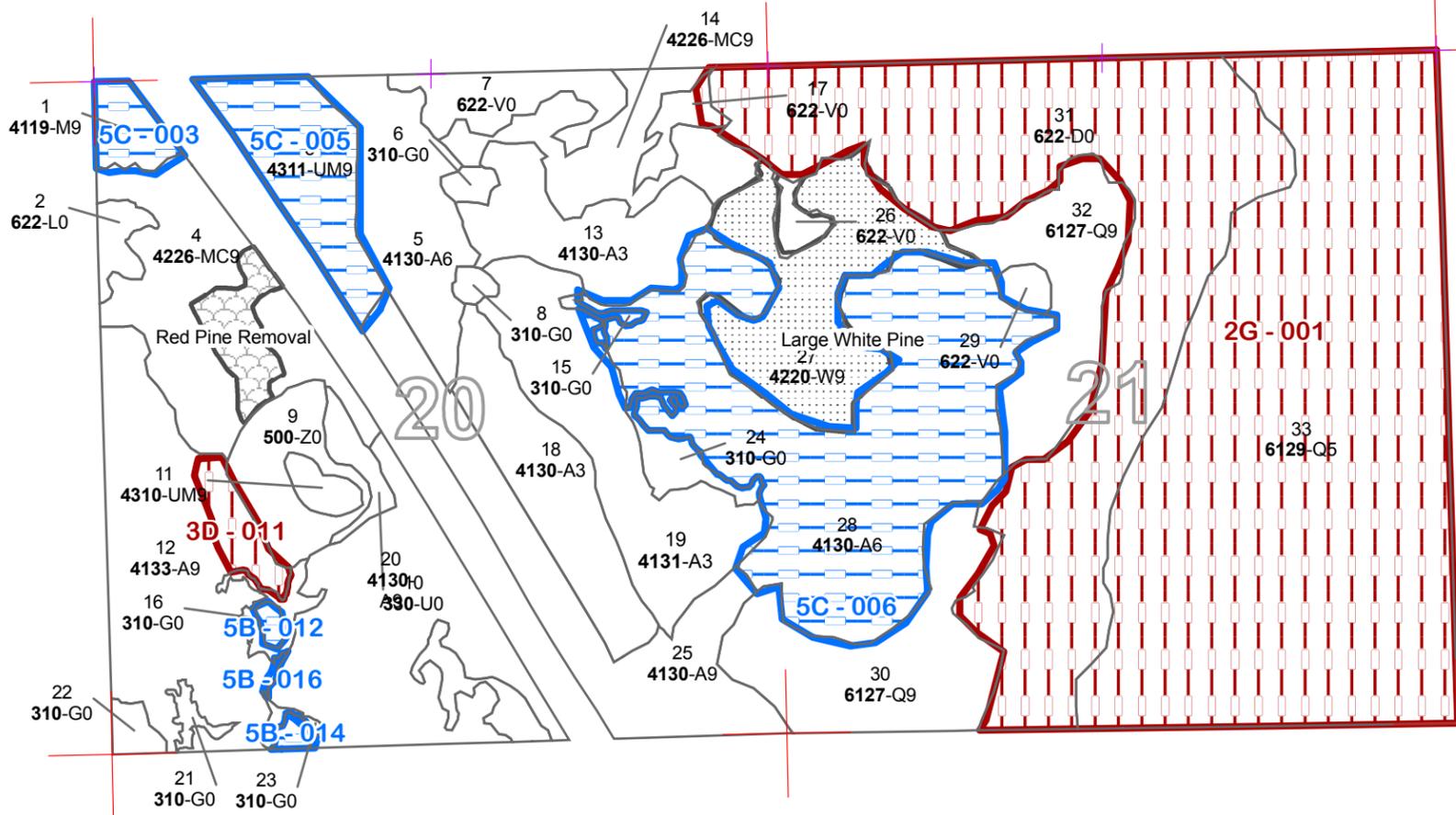
Compartment: 084  
 T23N R02W  
 Sections 20, 21  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2015  
 Acres: 1,229 GIS Calculated  
 Examiner: Ben Wiese  
 Map Revised: 12/11/2013  
 Map Phase: Web Post



**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

**Legend**

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
- ▒ Available w/ Constraints (Factor - Number)
- ▒ Unavailable (Factor - Number)
- Reviewable SCAs
- ▒ Proposed SCA
- ▒ SCA Removal



44°23'0"N

44°23'0"N

44°22'0"N

44°22'0"N

84°36'0"W 84°35'0"W 84°34'0"W 84°33'0"W 84°32'0"W

84°36'0"W 84°35'0"W 84°34'0"W 84°33'0"W 84°32'0"W

Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	63	48	33	0	124	72	111	0	0	0	0	0	0	0	450
Bog	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Herbaceous Openland	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	262	0	84	0	0	0	0	0	0	346
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Natural Mixed Pines	0	0	0	0	0	0	0	0	83	0	0	0	0	0	83
Northern Hardwood	0	0	0	0	0	0	0	0	8	0	0	0	0	0	8
Treed Bog	176	0	0	0	0	0	0	0	0	0	0	0	0	0	176
Upland Mixed Forest	0	0	0	0	4	0	28	0	0	0	0	0	0	0	32
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	0	0	0	47	0	0	0	0	0	47
<b>Total</b>	<b>325</b>	<b>48</b>	<b>33</b>	<b>0</b>	<b>128</b>	<b>334</b>	<b>139</b>	<b>84</b>	<b>138</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1229</b>



## Report 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit  
Year of Entry 2015

Compartment 084  
Total Compartment Acres: 1,229

### Acres by Treatment Type

Commercial Harvest - 217    Tree Planting - 0    Other - 30  
Habitat Cut - 0    Opening Maintenance - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	171	0	0	0	0	0	171
Lowland Coniferous Forest	0	0	0	0	47	0	47
<b>Total</b>	<b>171</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>0</b>	<b>217</b>

S  
t  
a  
n  
d

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12 71084012-Cut	60.3	4133 - Aspen, Mixed Pine	High Density Log	54	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Final Harvest clearcut with reserves. Mark to leave healthy maple, pine, and oak individually and in clumps. Residual basal area should average less than 5 square feet per acre.									
<u>Specs:</u>									
<u>Other Comments:</u> Part of the stand was left along the east side to lessen the visual impact from I-75. Consider including non-forested stands 16 and 21 in the sale boundary to cut right up to the stand boundary. Will need to add specs in the contract to keep producers out of the openings.									
<u>Next Steps:</u> Notify wildlife staff once the stand has been cut so they can mow any aspen that regenerates within the wildlife openings.									
<u>Proposed Start Date:</u> 10/01/2014									
20 71084020-Cut	60.0	4130 - Aspen	High Density Log	66	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut with reserves. The reserves should be large crowned healthy oak, red pine and quality stem red maple.									
<u>Specs:</u>									
<u>Other Comments:</u> May want to include stand 90 with the sale boundary in order to simplify sale layout and to make it easier to cut right up to the opening. Opening protection specs will need to be added to the sale contract. Leave retention pocket(s) along the wildlife openings.									
<u>Next Steps:</u>									
<u>Proposed Start Date:</u> 10/01/2014									
25 71084025-Cut	50.6	4130 - Aspen	High Density Log	62	111-140	Harvest	Clearcut with Reserves	4130 - Aspen	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut with reserves. The reserves should be healthy oak and red maple.									
<u>Specs:</u>									
<u>Other Comments:</u>									
<u>Next Steps:</u>									
<u>Proposed Start Date:</u> 10/01/2014									
30 71084030-Cut	46.6	6127 - Lowland Pine	High Density Log	72	111-140	Harvest	Low Thinning	6128 - Lowland Coniferous, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Thin from below as a TSI to remove poor quality trees. Manage for pine and mixed deciduous.									
<u>Specs:</u>									
<u>Other Comments:</u> This is a lowland stand on muck soils. Windthrow is likely, do not thin too heavily. The stand gets wetter to the east so the eastern harvest boundary may not match the stand boundary.									
<u>Next Steps:</u>									
<u>Proposed Start Date:</u> 10/01/2014									
6 NF_71084006-Other	2.3	3102 - Grass				Other	Unspecified	3102 - Grass	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenance, site prep or planting per Wildlife Division's requirements.									
<u>Specs:</u>									
<u>Other Comments:</u>									
<u>Next Steps:</u>									
<u>Proposed Start Date:</u> Unspecified									



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	NF_71084008- Other	1.8	3102 - Grass				Other	Unspecified	3102 - Grass	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenace, site prep or planting per Wildlife Division's requirements.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
15	NF_71084015- Other	1.4	3102 - Grass				Other	Unspecified	3102 - Grass	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenace, site prep or planting per Wildlife Division's requirements.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
16	NF_71084016- Other	4.4	3102 - Grass				Other	Unspecified	3102 - Grass	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenace, site prep or planting per Wildlife Division's requirements.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
21	NF_71084021- Other	2.1	3102 - Grass				Other	Unspecified	3102 - Grass	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenace, site prep or planting per Wildlife Division's requirements.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
22	NF_71084022- Other	3.1	3102 - Grass				Other	Unspecified	3102 - Grass	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenace, site prep or planting per Wildlife Division's requirements.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	NF_71084023- Other	1.4	3102 - Grass				Other	Unspecified	3102 - Grass	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenace, site prep or planting per Wildlife Division's requirements.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
24	NF_71084024- Other	6.9	3102 - Grass				Other	Unspecified	3102 - Grass	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenace, site prep or planting per Wildlife Division's requirements.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
90	NF_71084090- Other	6.8	3102 - Grass				Other	Unspecified	3102 - Grass	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Opening maintenace and planting per Wildlife Division's requirements.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
<b>Total Treatment Acreage Proposed: 247.7</b>										



S  
t  
a  
n  
d

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	-----------	--------------	-----------	----------	----------------	------------------	----------------------	-----------------

#Type! #Type!

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

**Total Treatment Acreage Proposed: 0.0**

## Report 5 – Site Conditions

Roscommon Mgt. Unit

Ben Wiese : Examiner

Compartment 084

Year of Entry 2015

### Availability for Management

Availability for Management			Dominant Site Conditions					
Total Acres	Acres Available	Acres Not Available	No	5C	5B	3D	2G	
449	441	8	<b>Aspen</b>					
346	83	264	<b>Lowland Conifers</b>					264
83	83		<b>Natural Mixed Pines</b>					
8	8		<b>Northern Hardwood</b>					
32	32		<b>Upland Mixed Forest</b>					
47	47	0	<b>White Pine</b>					0
965	694	272	<b>Total Forested Acres</b>					264
	72%	28%	<b>Relative Percent</b>					

*\*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
001	Not Available	2G: Too wet (sensitive soils, does not include access issues)	438				
<b>Comments:</b>							
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8				
<b>Comments:</b>							
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29				
<b>Comments:</b>							

Report 5 – Site Conditions

Roscommon Mgt. Unit

Compartment 084

Ben Wiese : Examiner

Year of Entry 2015

006 Available 5C: Delay treatment for age/size class diversity or exceptional site quality 131

Comments:

011 Not Available 3D: Recreational / Scenic values 8

Comments:

012 Available 5B: Retention for regeneration purposes 1

Comments:

014 Available 5B: Retention for regeneration purposes 1

Comments:

015 Available 5B: Retention for regeneration purposes 0

Comments:

016 Available 5B: Retention for regeneration purposes 0

Comments:

Roscommon Mgt. Unit

Report 5 – Site Conditions

Compartment 084

Ben Wiese : Examiner

Year of Entry 2015

017	Available	5B: Retention for regeneration purposes	0
-----	-----------	--	---

Comments:

**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.

<b>SCA Name</b>	<b>SCA Category</b>	<b>Detail Type</b>	<b>Recommendation</b>	<b>Acres</b>
<b>Large White Pine</b> <b>Comments</b>	Potential Old Growth		<b>SCA</b>	48.1
<b>Red Pine Removal</b> <b>Comments</b>	Potential Old Growth		<b>SCA Removal</b>	10.4



## Report 7 – DEDICATED CONSERVATION AREA DETAILS

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	High Density Log	7.7	89	111-140	Small stand, red maple with white pine and scattered oak.
3	4311 - Pine, Aspen Mix	High Density Log	28.1	62	81-110	White pine stand with mixed aspen, red maple and red pine. There is a small amount of red pine and super canopy white pine. White pine and red maple are well developed in the subcanopy.
4	42260 - Natural Pine, Mixed Deciduous	High Density Log	55.0	87	111-140	Mixed upland stand with mostly red maple and white pine in the canopy there is a pocket of red pine centrally located.
5	4130 - Aspen	High Density Pole	33.4	27	81-110	This stand was final harvested in 1986 and '87. Mostly quaking aspen that is just entering pole status, with a developing red maple understory. There is scattered red and white pine.
11	4310 - Pine, Oak Mix	High Density Log	4.1	45	51-80	This stand is an island with with sparsely forested areas. There are several age classes.
12	4133 - Aspen, Mixed Pine	High Density Log	71.5	54	51-80	Mixed upland stand with variable density and species composition.
13	4130 - Aspen	High Density Sapling	30.3	5		This stand was final harvested in 2008 by cutting all species to a two inch dbh except white oak and black cherry.
14	42260 - Natural Pine, Mixed Deciduous	High Density Log	28.1	89	51-80	Mixed upland stand with super canopy white pine and oak. Patches of red maple some, age classes vary. There is a small amount of red pine logs and large white pine.
18	4130 - Aspen	High Density Sapling	32.9	5		This stand was final harvested in 2008 by cutting all species to a two inch dbh except white oak and black cherry.
19	4131 - Aspen, Oak	High Density Sapling	48.0	17	51-80	This stand was final harvested to a two inch dbh, except for oak in 1996. Scattered large canopy oak was left.
20	4130 - Aspen	High Density Log	60.1	66	81-110	Aspen stand that appears to have been previously harvested based on the large crown, healthy oak that are present.
25	4130 - Aspen	High Density Log	50.6	62	111-140	Aspen stand with developing red maple understory. This stand borders I-75. Looks like it was used as a buffer strip in a previous harvest.
27	42200 - Natural White Pine	High Density Log	47.5	89	141-170	Mature white pine stand with red maple and scattered oak and birch. There is some beech in the understory. Parts of the stand are low and there are small bogs unevenly distributed. The stand has the potential to grow large white pine.
28	4130 - Aspen	High Density Pole	123.7	48	51-80	Poor quality aspen with a developing red maple understory, may have been previously harvested.

S  
t  
a  
n  
d

Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 084  
Year of Entry: 2015



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	6127 - Lowland Pine	High Density Log	46.6	72	111-140	White pine stand, mostly lowland, there are some upland areas. There are small bogs scattered throughout. There is trace paper birch and quaking aspen which is senescing. Both white and red oaks are scattered throughout the stand. There is a pocket of red pine in the NE part of the stand.
32	6127 - Lowland Pine	High Density Log	37.6	74	81-110	Lowland white pine and red maple, may be seasonally wet. There is super canopy white pine. Pit and mound topography with a high water table.
33	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	262.2	50		This stand is lowland conifer with leatherleaf. Difficult access.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	6220 - Alder/willow	5.0	Unspecified	Unspecified	
6	3102 - Grass	2.3	Yes	Unspecified	
7	6225 - Bog	14.9	Unspecified	Unspecified	
8	3102 - Grass	1.8	Yes	Unspecified	
9	50 - Water	18.5	No	Unspecified	
10	3303 - Mixed Low Density Trees	5.3	No	Unspecified	
15	3102 - Grass	1.4	Yes	Unspecified	
16	3102 - Grass	4.4	Yes	Unspecified	
17	6225 - Bog	5.3	No	Unspecified	
21	3102 - Grass	2.1	Yes	Unspecified	
22	3102 - Grass	3.1	Yes	Unspecified	
23	3102 - Grass	1.4	Unspecified	Unspecified	
24	3102 - Grass	6.9	Yes	Unspecified	
26	6225 - Bog	3.8	No	Unspecified	
29	6225 - Bog	3.0	Unspecified	Unspecified	
31	6224 - Treed Bog	175.9	Unspecified	Unspecified	
90	3102 - Grass	6.8	Yes	Medium	