



# Compartment Review Presentation

## Roscommon Forest Management Unit

Compartment 135

Entry Year 2015

Acreage: 1,002

County Roscommon

Management Area: Ogemaw Hills

**Revision Date:** 08/07/2013

**Stand Examiner:** Ben Wiese

**Legal Description:**

T21N R01W Sec. 3, 10 and 15

**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 include 19 acres of oak regeneration, 43 acres of oak thinning, 13 acres of aspen regeneration and 9 acres of oak and aspen shelterwood.

**Soil and topography:**

The compartment is part of the Grayling outwash Plain it is hilly with ice contact ridges and a creek running from Dunham Lake through the southeast. The soils are sand types and include Graycalm-Grayling, Klacking-Pere Cheney, Gerrish and Menominee.

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

The south and west sides of the compartment are bordered by privately owned land. There is a lot of hunting and ATV activity. Dunham Lake is located a half mile to the east which draws dispersed camping and fishing.

**Unique Natural Features:**

No Unique Natural Features known.

**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**

Roscommon County Surface sediments consist of ice-contact outwash sand and gravel. 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 brick making clay 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 southwest and potential appears to be good. The abandoned Denton Creek Field is located five miles to the northwest. The field produced nearly 55,000 BO from the Devonian Detroit River Formation. The entire Compartment is leased for oil and gas development.

**Vehicle Access:**

Vehicle access is excellent, Dunham Lake Rd is seasonally maintained by the county and there are numerous forest roads throughout the compartment.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

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

**Fire Protection:**

None noted.

**Additional Compartment Information:**

Much of the compartment was historically forested with red and white pine stands and small amounts of jack pine and beech, sugar maple cover 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**

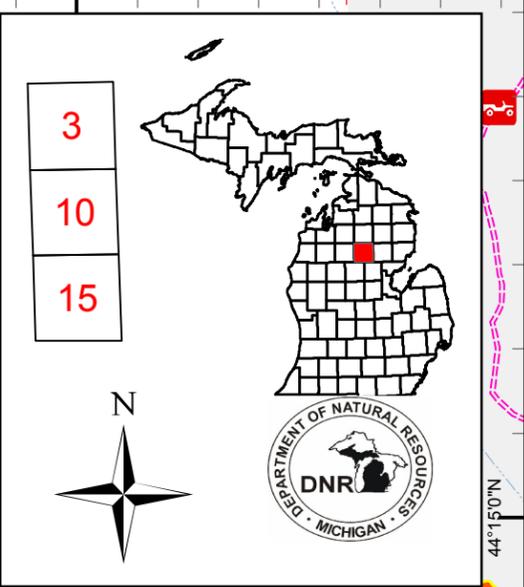
**The following information is displayed, where pertinent, on the attached compartment maps:**

**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: 135  
 T21N R01W  
 Sections 3, 10, 15  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2015  
 Acres: 1,002 GIS Calculated  
 Examiner: Ben Wiese  
 Map Revised: 08/08/2013  
 Map Phase: Web Post

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



### Legend

- Remonumented Section Corners
- Miris Corners
- Paved Roads
- Poor Dirt Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- MCCCT Trail
- Motorcycle (SOS License)
- ORV Trail
- ORV Route
- Motorcycle Trails (SOS License)
- MCCCT Trails
- ORV Routes

### Treatments

- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Clearcut (w/Reserves, Patch/Strip)

### Forest Stands

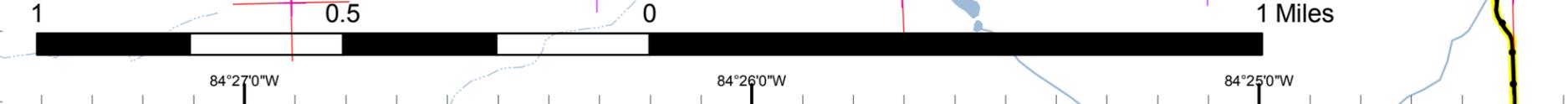
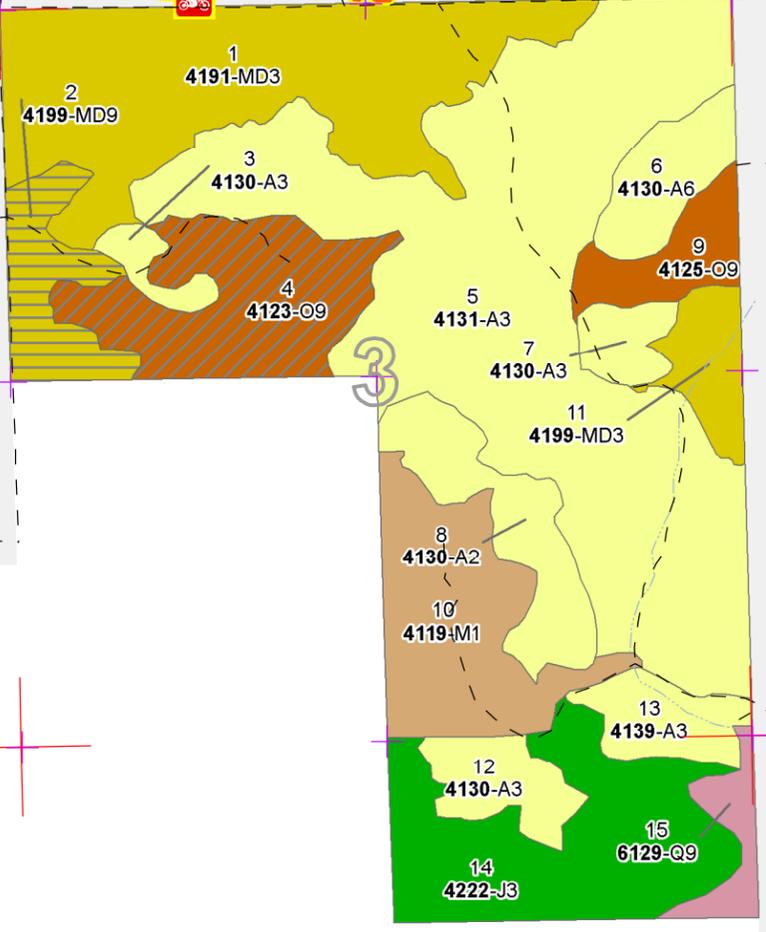
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest

### Non-Forest Stands

Level 3

- 622 - Lowland Shrub
- State Forest Land



# Stand Boundary Map

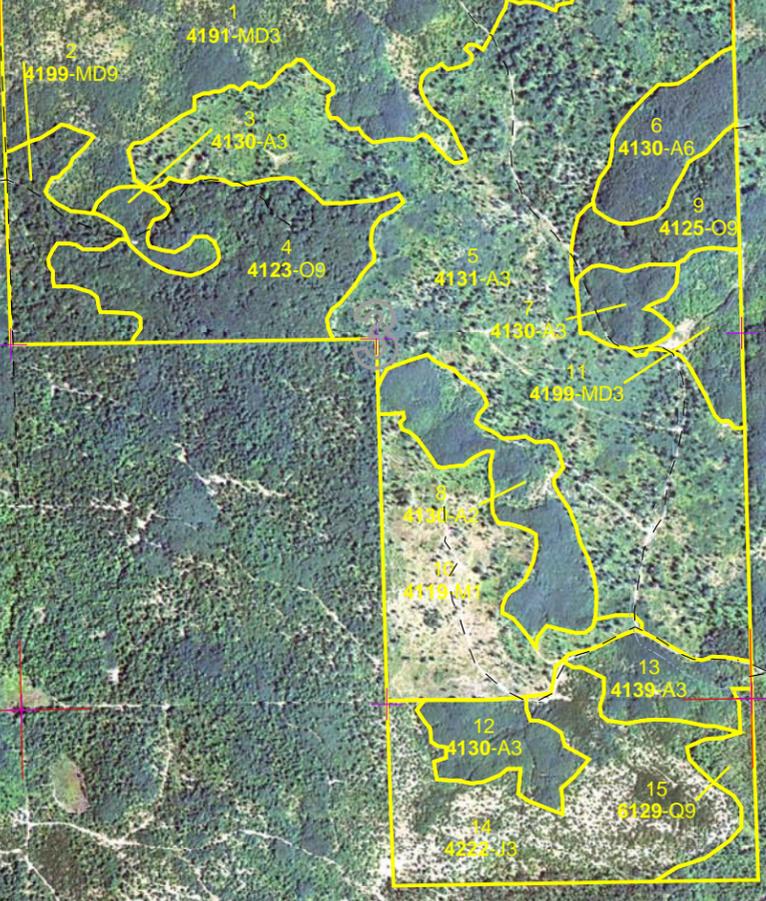
Compartment: 135  
 T21N R01W  
 Sections 3, 10, 15  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2015  
 Acres: 1,002 GIS Calculated  
 Examiner: Ben Wiese  
 Map Revised: 08/08/2013  
 Map Phase: Web Post

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

3  
 10  
 15



- Legend**
- Miris Corners
  - + Remonumented Section Corners
  - MCCCT Trail
  - Motorcycle (SOS License)
  - ORV Trail
  - ORV Route
  - Motorcycle Trails (SOS License)
  - MCCCT Trails
  - ORV Routes
  - Stream
  - Intermittent Stream
  - Paved Roads
  - Poor Dirt Roads
  - Stand Boundaries



84°27'0"W      84°26'0"W      84°25'0"W

84°27'0"W

84°26'0"W

# Special Conservation Areas & Site Conditions Map

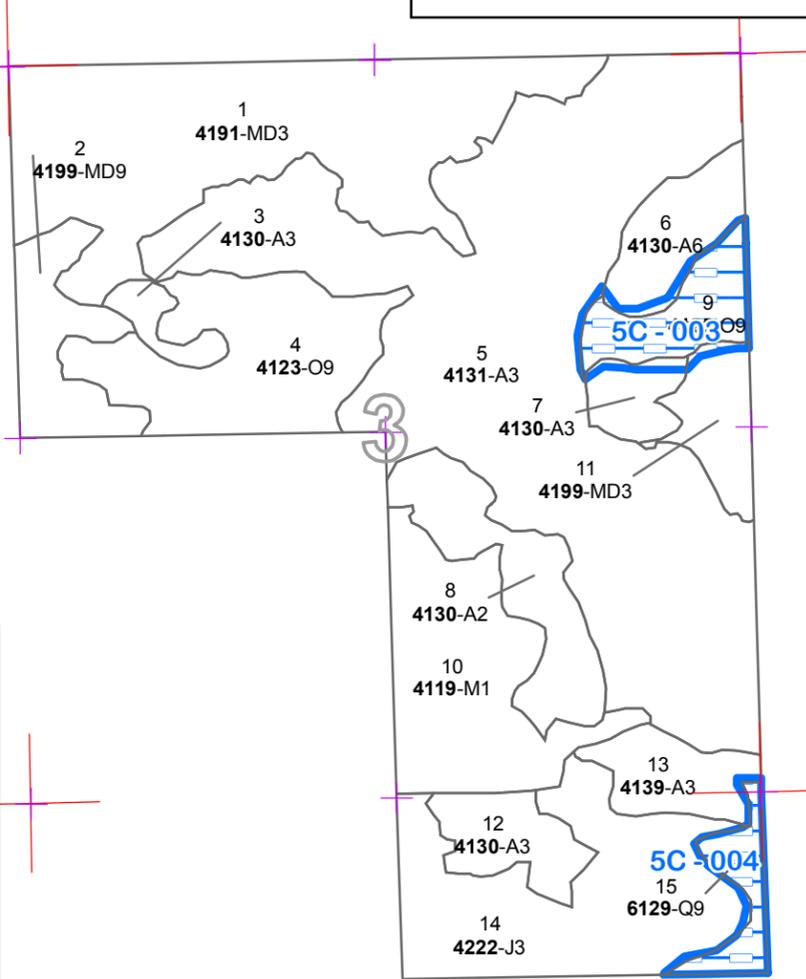
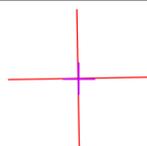
Compartment: 135  
 T21N R01W  
 Sections 3, 10, 15  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2015  
 Acres: 1,002 GIS Calculated  
 Examiner: Ben Wiese  
 Map Revised: 08/08/2013  
 Map Phase: Web Post

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

3  
 10  
 15



44°15'0"N

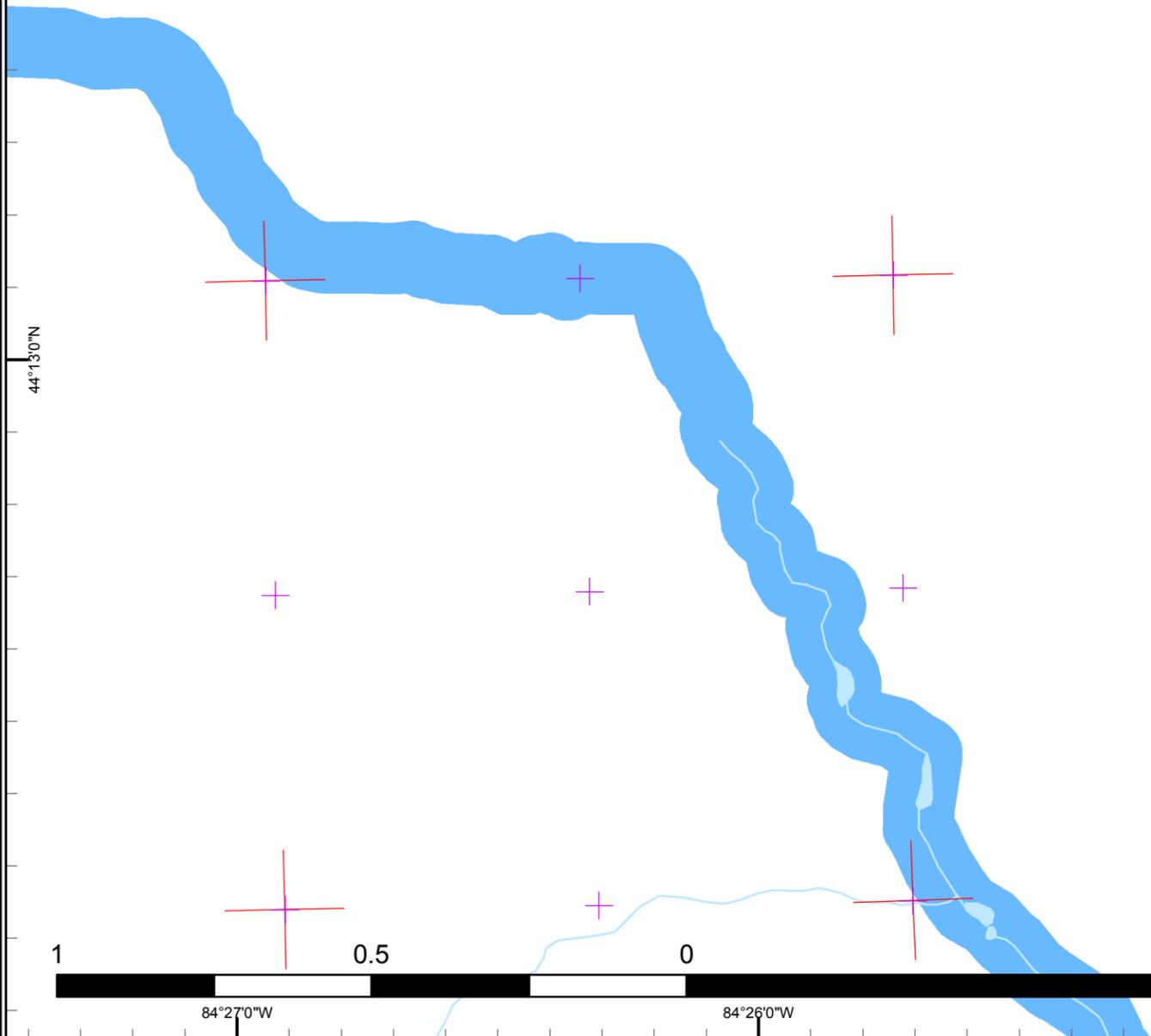


## Legend

- Miris Corners
- Remonumented Section Corners
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Dedicated Special Conservation Areas
- High Priority Trout Stream Buffer
- Cold Water Lakes
- Cold Water Streams
- Stand Boundaries

44°14'0"N

44°14'0"N



10

44°13'0"N

44°13'0"N



15



84°27'0"W

84°26'0"W

84°25'0"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	191	99	0	16	0	0	0	0	0	13	0	0	0	0	318
Jack Pine	0	56	0	0	0	0	0	0	0	0	0	0	0	0	56
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	10	0	8	0	19
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	178	0	0	0	0	0	0	0	0	28	0	0	0	206
Northern Hardwood	44	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Oak	0	0	0	0	0	0	0	0	0	0	355	0	0	0	355
<b>Total</b>	<b>238</b>	<b>333</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>394</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>1002</b>



## Report 2 – Proposed Treatment Summaries

**Roscommon Mgt. Unit**  
**Year of Entry 2015**

**Compartment 135**  
**Total Compartment Acres: 1,002**

### Acres by Treatment Type

Commercial Harvest - 85	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen Types</b>	13	0	0	0	0	0	13
<b>Mixed Upland Deciduous</b>	19	0	0	9	0	0	28
<b>Oak Types</b>	0	0	0	0	43	0	43
<b>Total</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>43</b>	<b>0</b>	<b>85</b>



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	71135002-Cut	19.3	4199 - Other Mixed Upland Deciduous	High Density Log	104	51-80	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription:</u> Clearcut with reserves, leave large crowned healthy trees. South edge of stand borders private land, the survey corners are in. The stand should regenerate adequately. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2014										
4	71135004-Cut	43.2	4123 - Red Oak	High Density Log	104	111-140	Harvest	Low Thinning	4123 - Red Oak	Cmpt. Review Proposal
<u>Prescription:</u> Thin to a residual BA of 70-90. Remove suppressed, poorly formed and unhealthy trees. Promote the growth of quality red maple poles and logs. Leave the best formed, healthiest trees. Leave the white pine understory. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2014										
24	71135024-Cut	13.2	4130 - Aspen	High Density Log	93	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription:</u> Clearcut to regenerate the aspen, protect the white pine that is already established. Leave some large crowned oak for mast and diversity. <u>Specs:</u> <u>Other Comments:</u> There is a good landing in the northwest part of the stand. The west side of the stand borders private property, the corners are established and there is a fence that appears to be close to the property line. <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2014										
<b>Total Treatment Acreage Proposed:</b>		<b>75.7</b>								

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23 71135023-Cut	9.0	4199 - Other Mixed Upland Deciduous	High Density	102	111-140	Harvest	Shelter Wood with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal

Prescription Shelterwood with reserves, residual BA of 30-50. Cut all aspen, leave the best oak and red maple, leave some poor quality aspen for wildlife and diversity. The residual Basl Area will vary due to the uneven aspen distribution.

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: 10/01/2014

Limiting Factor 5C: Delay treatment for age/size class diversity or exceptional site quality

**Total Treatment**  
**Acreage Proposed: 9.0**

## Report 5 – Site Conditions

Roscommon Mgt. Unit  
Ben Wiese : Examiner

Compartment 135  
Year of Entry 2015

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C
	Available	Not Available			
318	318		<b>Aspen</b>	313	5
56	56		<b>Jack Pine</b>	56	1
19	19		<b>Lowland Conifers</b>		19
206	206		<b>Mixed Upland Deciduous</b>	203	3
44	44		<b>Northern Hardwood</b>	44	
354	354		<b>Oak</b>	44	310
997	997		Total Forested Acres	660	337
	100%		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
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17				
<b>Comments:</b>							
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9				
<b>Comments:</b>							
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	57				
<b>Comments:</b>							

**Report 5 – Site Conditions**

Roscommon Mgt. Unit

Ben Wiese : Examiner

Compartment 135

Year of Entry 2015

006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	88
Comments:			
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	58
Comments:			
008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	112
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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>Comments</b>				



**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	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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	93.4	16		This stand was clearcut in 1997 and was trenched but doesn't appear to have been planted. Jack pine seeded in naturally. The species distribution is uneven, there is aspen and oak pockets and small open areas scattered throughout the stand.
2	4199 - Other Mixed Upland Deciduous	High Density Log	19.3	104	51-80	Mature stand of aspen, oak and pine of medium to low timber quality.
3	4130 - Aspen	High Density Sapling	5.4	16		Small aspen and maple stand that was part of a larger harvest in 1997.
4	4123 - Red Oak	High Density Log	43.2	104	111-140	Nice healthy, mature red oak. The red maple understory is developing and is dense in places, there is a small amount of white pine. Thinning will likely promote and increase the vigour of the red maple understory and accelerate the succession of the stand moving it towards a mixed maple and pine cover type. This is a good site and the red oak is healthy if we leave the best trees they should live to be quite old and remain a dominant presence in the stand.
5	4131 - Aspen, Oak	High Density Sapling	190.8	7	1-50	This stand was harvested in 2006 all trees except for the white oak were cut. The stand is now two-aged. There is black oak regen from stump sprouts and single stems. The basal area and species distribution are both variable, Willow is scattered throughout.
6	4130 - Aspen	High Density Pole	15.7	37	111-140	Nice vigorous bigtooth aspen stand with red maple and a small amount of oak. This is quality timber, there is good potential for sawlogs. The stand is self thinning, there is some CWD. Part of this stand extends east into the adjacent compartment.
7	4130 - Aspen	High Density Sapling	8.1	16		Aspen stand mixed with oak and cherry that was regenerated in 1997.
8	4130 - Aspen	Medium Density	25.6	16		This stand was regenerated in 1997. The species composition is aspen with cherry and maple.
9	4125 - Black, N. Pin Oak	High Density Log	14.1	102	81-110	Mixed oak, black/red hybrid. The trees are healthy. According to previous cutting records this stand may have been selection harvested in 1968. This would explain the healthy trees and current stocking levels, which would typically be higher if there had been no management. There is small amount of red maple in the understory.
10	4119 - Mixed Northern Hardwoods	Low Density Sapling	43.9	7		This stand was regeneration harvested in 2006. There is oak, red maple and cherry regen but not enough to have a fully stocked stand. In 2009 the stand was trenched and in 2010 it was hand planted to red pine at 600 trees per acre. The red pine looks healthy with very little mortality.
11	4199 - Other Mixed Upland Deciduous	High Density Sapling	12.6	16		Mixed aspen, oak, maple and cherry that was regenerated in 2007. The stand is healthy and part of a larger to the east in the adjacent compartment.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	4130 - Aspen	High Density Sapling	13.4	16		Aspen that was regenerated in 1997 there is some jack pine, oak and cherry mixed in.
13	4139 - Aspen, Mixed Deciduous	High Density Sapling	13.7	16		Young aspen and mixed deciduous stand that was regenerated in 1997.
14	42220 - Natural Jack Pine	High Density Sapling	56.5	16		Jack pine stand that was regenerated in 1997. The regen looks natural and is dense in some areas sparse in others.
15	6129 - Mixed Coniferous Lowland Forest	High Density Log	8.4	145	51-80	Lowland coniferous stand with dominant white pine more in the north. There was stand in water at the time of inventory.
16	4199 - Other Mixed Upland Deciduous	High Density Sapling	32.0	17		Mixed stand of maple, oak, aspen and cherry, the oak and maple are mostly stump sprouts.
17	4139 - Aspen, Mixed Deciduous	High Density Sapling	7.7	17		Small aspen stand that was regenerated in 1996. The red oak is mostly from stump sprouts.
18	4125 - Black, N. Pin Oak	High Density Log	16.5	107	111-140	Oak stand that is healthy and doesn't appear to have been managed. The terrain is hilly, the understory has witch hazel and red maple.
19	4123 - Red Oak	High Density Log	172.6	107	51-80	This is a healthy red oak stand with a prolific aspen and red maple understory. The aspen and red maple were all harvested in 1997.
20	4125 - Black, N. Pin Oak	High Density Log	9.6	107	111-140	Mature red oak stand with red maple and bigtooth aspen there is very little understory development. The terrain is hilly.
21	4199 - Other Mixed Upland Deciduous	High Density Sapling	39.7	17		Mixed upland stand with aspen, red maple and oak that was regenerated in 1996.
22	4130 - Aspen	High Density Sapling	24.7	17		Aspen and red maple stand the year of origin is 1996.
23	4199 - Other Mixed Upland Deciduous	High Density Log	9.0	102	111-140	Mature mixed oak upland. The aspen is mostly concentrated in the northeast part of the stand, the northwest has more oak. The subcanopy is more developed in the northeast.
24	4130 - Aspen	High Density Log	13.2	93	81-110	Mature aspen stand that is ready to be regenerated. There is a small amount of white pine in the understory.
26	4123 - Red Oak	High Density Log	19.7	107	111-140	This is a mature upland stand that appears to be unmanaged, the understory is open with a small amount of white pine.
27	4123 - Red Oak	High Density Log	79.2	107	51-80	Mature, oak stand with a well developed aspen and red maple understory that is roughly 20-30 feet tall. The aspen and red maple were harvested in 96. The stand is healthy it responded well to the harvest.

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Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 135  
Year of Entry: 2015



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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	10.4	104	111-140	A branch of the Tittabawasee flows out of Dunham Lake through this stand, which is a riparian zone. The creek is 3-6 ft across. The stand is mixed cedar, white pine and some hardwoods.

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Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
25	6220 - Alder/willow	3.2	No	Unspecified	