



# Compartment Review Presentation

## Roscommon Forest Management Unit

Compartment 116

Entry Year 2015

Acreage: 952

County Roscommon

Management Area: Upper Muskegon

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

**Stand Examiner:** Jason Lewicki

**Legal Description:**

T22N, R03W Section 25 and 36

**Identified Planning Goals:**

Provide for sustainable ecosystem based management. Maintain healthy and diverse forested stands for wildlife, recreation and the production of forest products.

**Soil and topography:**

Soils on the uplands generally consist of Grayling and Croswell sands. Lowland soils consist of Tawas-Leafriver, and Tawas-Lupton mucks.

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

The majority of the compartment is made up of large blocks of state land with a few private landholdings especially on the north end.

**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 known

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

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

Sections 1 & 2, T24N-R1W, Roscommon County

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Marshall Sandstone. The Marshall has been used as a building stone in the past. Most of the good gravel pits are associated with upland areas. The nearest gravel pit is located in Section 10 and potential appears to be good. St. Helen Field is located 1.5 miles to the southwest. 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.

**Vehicle Access:**

Vehicle access is very good throughout upland areas with the exception of a piece of high ground on the north eastern edge. It is either blocked by private property or large wetland blocks.

**Survey Needs:**

Possible survey needed for timber harvesting operations within stand 18.

**Recreational Facilities and Opportunities:**

The snowmobile trail and the Denton Creek ORV route are located on the southern edge of the compartment.

**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**

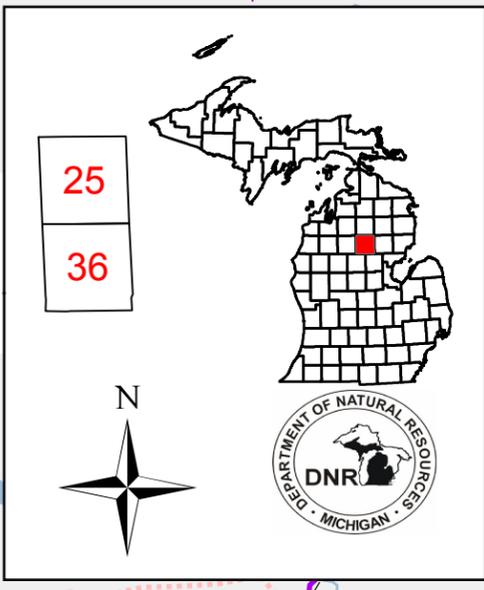
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

# Cover Type & Treatment Map

Compartment: 116  
 T22N R03W  
 Sections 25, 36  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2015  
 Acres: 952 GIS Calculated  
 Examiner: Jason Lewicki  
 Map Revised: 08/07/2013  
 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
- Culverts
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Powerline
- Stream
- Intermittent Stream
- Lakes and Rivers
- ORV Routes
- Snowmobile Trails
- Snowmobile Trail
- ORV Trail

### Treatments

- Shelter Wood (w/Reserves)
- Clearcut (w/Reserves, Patch/Strip)

### Non-Forest Stands

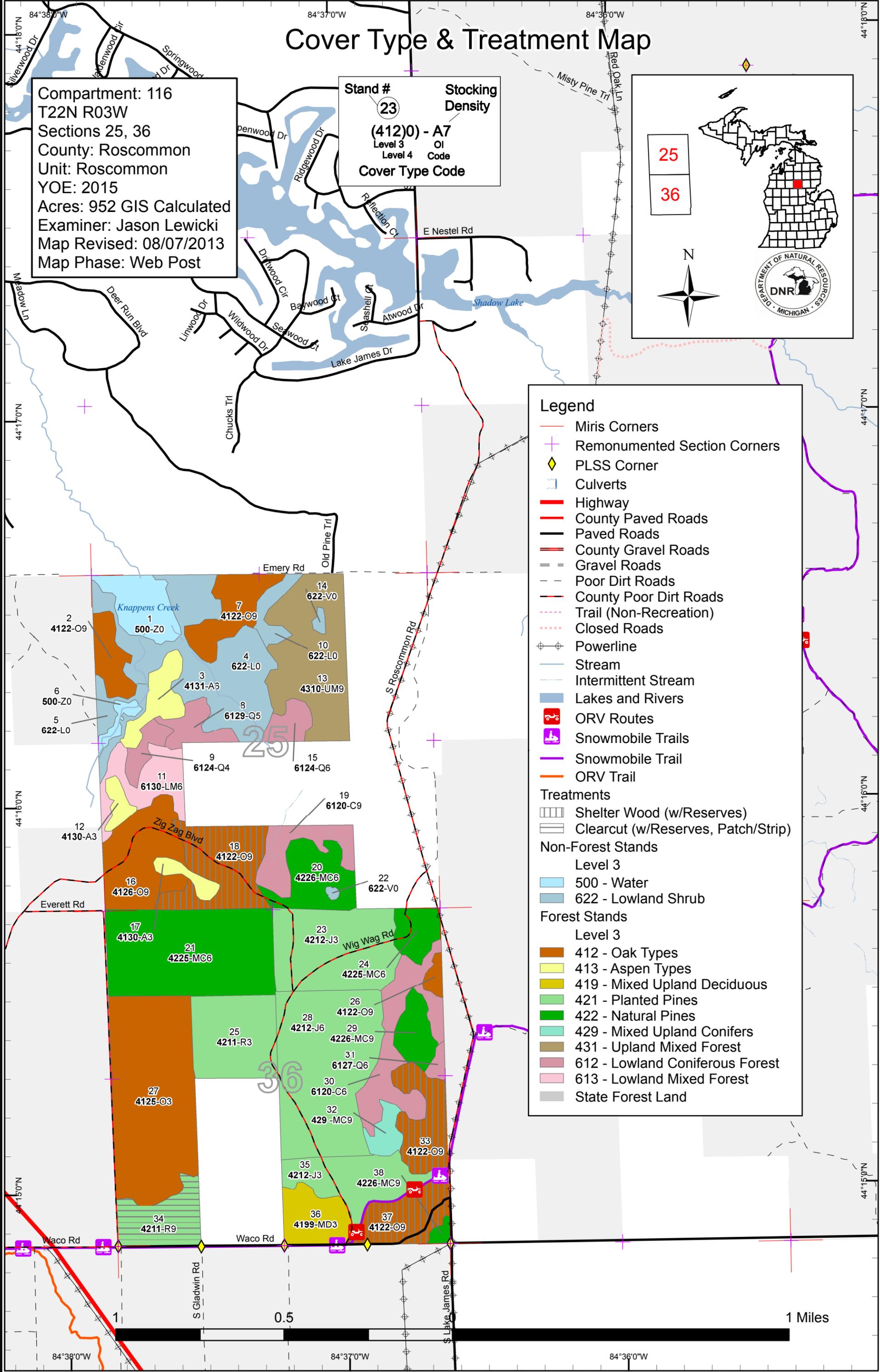
Level 3

- 500 - Water
- 622 - Lowland Shrub

### Forest Stands

Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- State Forest Land

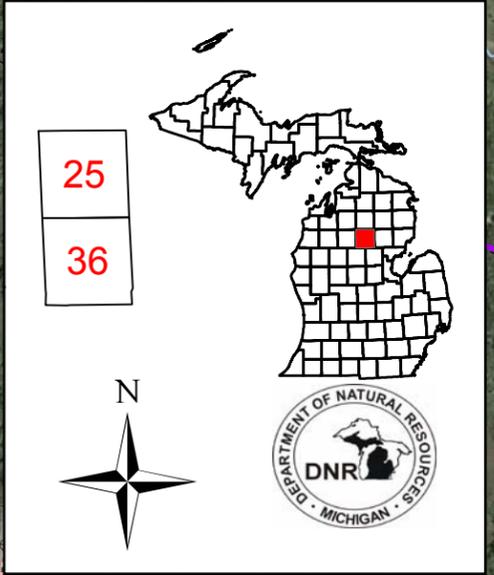


1 Miles

# Stand Boundary Map

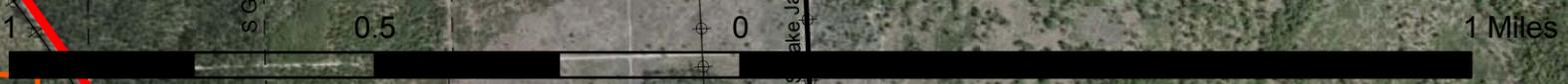
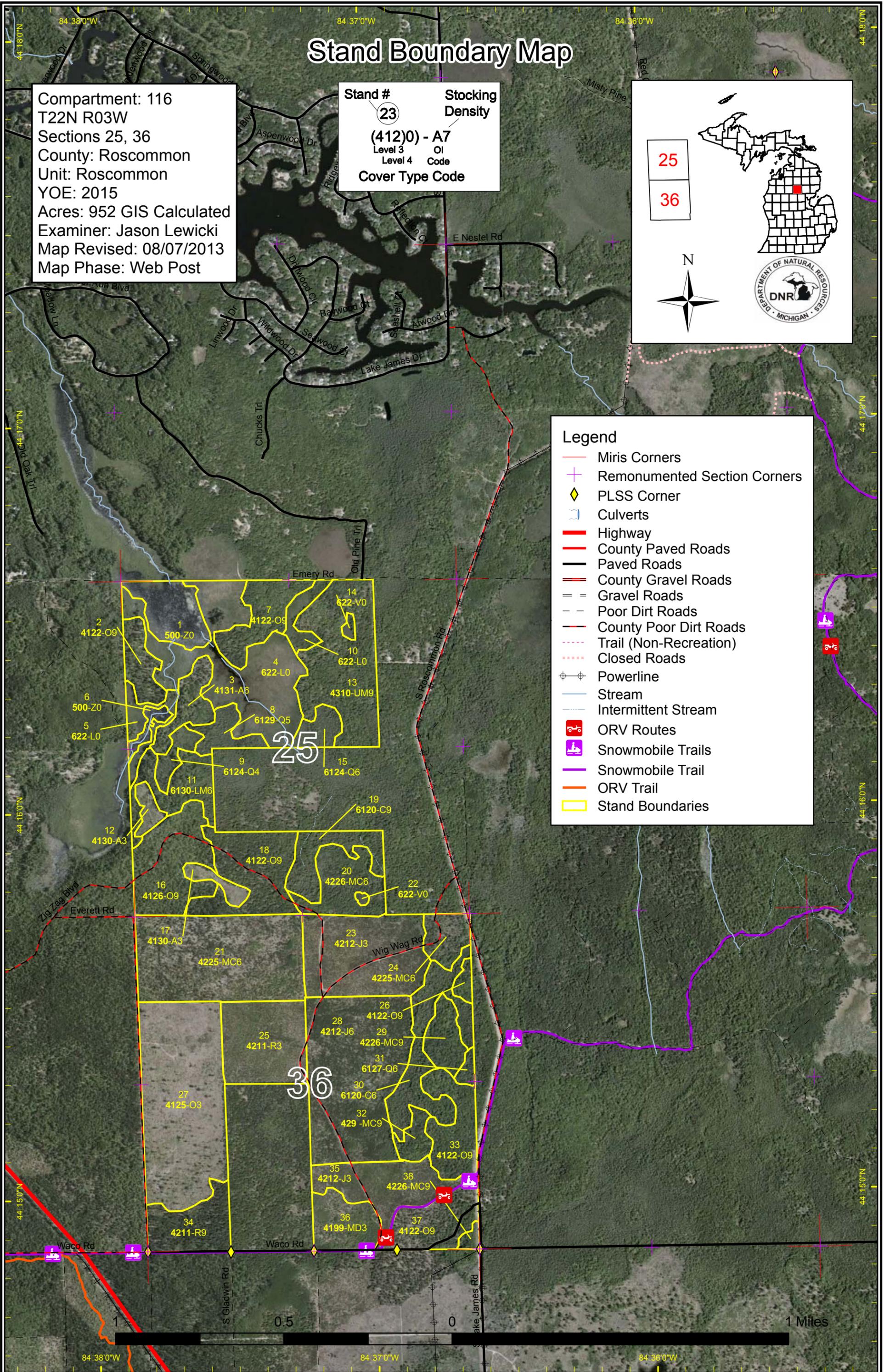
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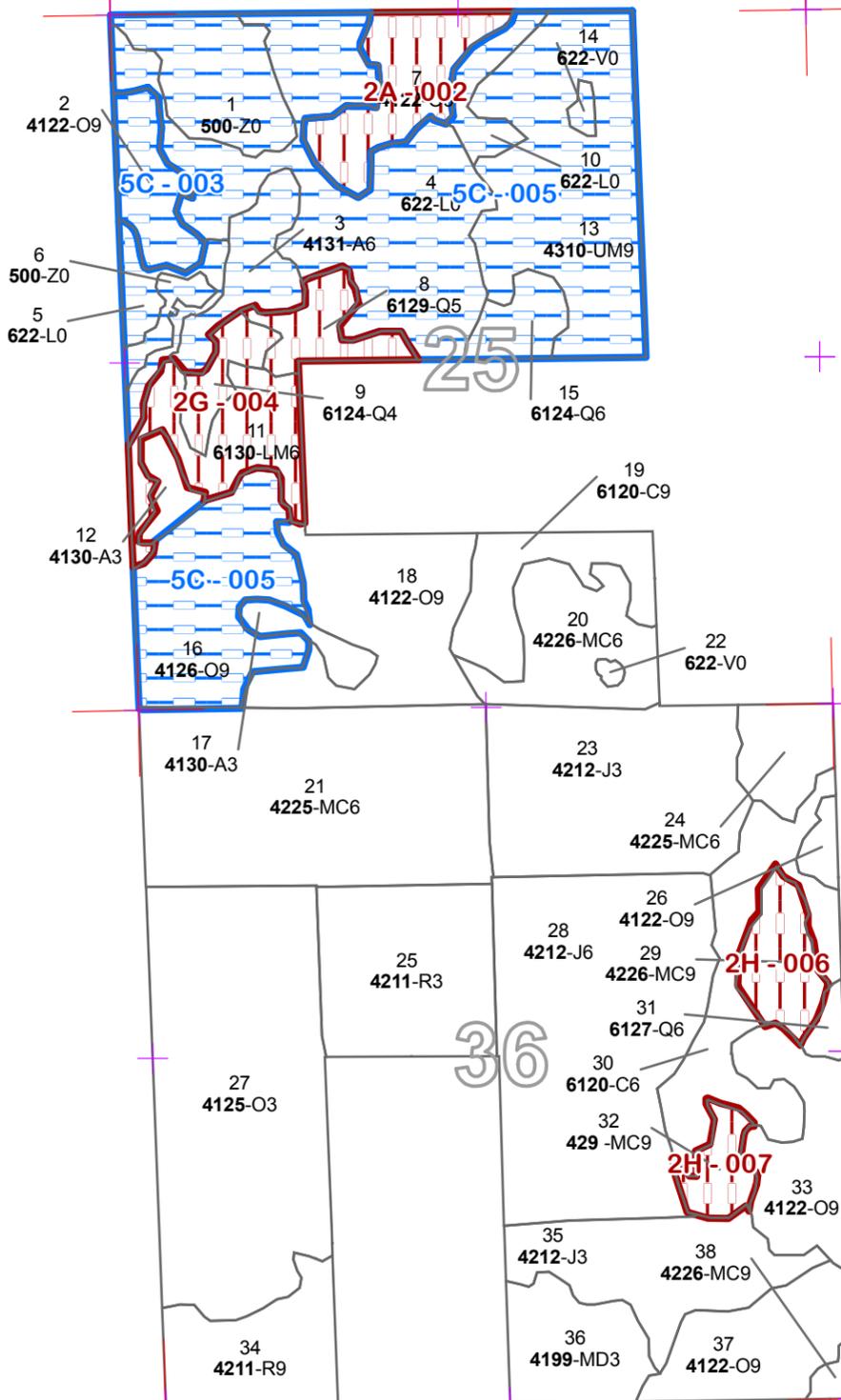
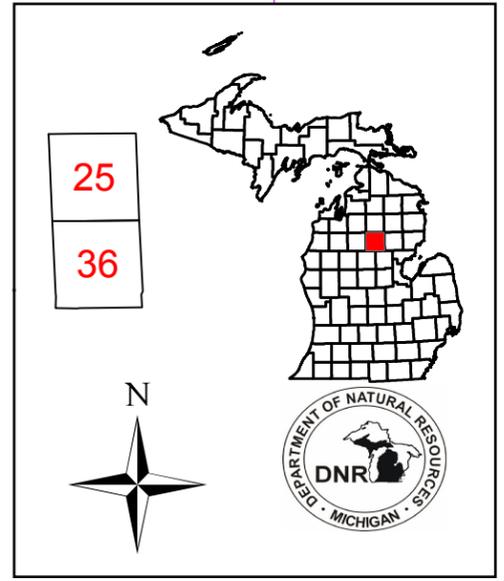
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- Remonumented Section Corners
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- Stream
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- ORV Routes
- Snowmobile Trails
- Snowmobile Trail
- ORV Trail
- Stand Boundaries



# Special Conservation Areas & Site Conditions Map

Compartment: 116  
 T22N R03W  
 Sections 25, 36  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2015  
 Acres: 952 GIS Calculated  
 Examiner: Jason Lewicki  
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**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**Legend**

- Miris Corners
- + Remonumented Section Corners
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Stand Boundaries



84°38'0"W      84°37'0"W      84°36'0"W

44°18'0"N  
 44°17'0"N  
 44°16'0"N  
 44°15'0"N

**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	11	0	14	0	0	0	0	0	0	0	0	0	0	0	25
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	32	18	0	0	51
Jack Pine	0	88	88	0	0	0	0	0	0	0	0	0	0	0	176
Lowland Conifers	0	0	0	0	0	0	0	11	0	0	18	0	0	0	29
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	21	0	0	0	21
Lowland Shrub	87	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Mixed Upland Deciduous	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20
Natural Mixed Pines	0	0	106	0	0	12	0	0	0	0	0	13	2	0	133
Oak	93	0	0	0	0	0	0	0	0	0	37	124	0	0	254
Red Pine	0	39	0	0	0	0	0	0	24	0	0	0	0	0	63
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	58	0	0	58
Water	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25
<b>Total</b>	<b>218</b>	<b>147</b>	<b>208</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>11</b>	<b>24</b>	<b>0</b>	<b>108</b>	<b>221</b>	<b>2</b>	<b>0</b>	<b>952</b>



## Report 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit  
Year of Entry 2015

Compartment 116  
Total Compartment Acres: 952

### Acres by Treatment Type

Commercial Harvest - 86    Tree Planting - 0    Other - 0  
Habitat Cut - 24    Opening Maintenance - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
(Habitat Cut)Oak Types	0	0	0	24	0	0	24
Oak Types	0	0	0	61	0	0	61
Planted Pines	24	0	0	0	0	0	24
<b>Total</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>86</b>	<b>0</b>	<b>0</b>	<b>110</b>



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	71116018-Cut	37.4	4122 - Oak, Pine	High Density Log	110	51-80	Harvest	Shelterwood	4122 - Oak, Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Remove all black oak and jack pine. Mark any high risk or suppressed white oak for harvest. Can expect some oak stumping to occur. Possible <u>Specs:</u> survey needed.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
33	71116033-Cut	24.1	4122 - Oak, Pine	High Density Log	110	111-140	Harvest	Shelterwood	4122 - Oak, Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Remove black oak, jack pine and aspen. Protect white pine as much as possible during harvest. Especially pole timber and larger white pine. It <u>Specs:</u> is expected that small white pine will take a beating during harvest operations from felling large crowned oak. Save some scattered white oak with good mast characteristics. There should be good stump sprout regeneration from harvested oak. Expand aspen areas by removing all trees within a "trees length" of all aspen. Manage for white pine with oak component. The snowmobile trail lies just to the east of this stand. It will probably be used as a haul route. Protect the trail with appropriate spec. Leave 1 brush pile for every 2 acres along the swamp edges.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
34	71116034-Cut	24.1	42110 - Planted Red Pine	High Density Log	89	111-140	Harvest	Clearcut with Reserves	4129 - Mixed Oak	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Final harvest and manage for oak. Leave a few pine for super canopy and retention and verticle structure. Snowmobile trail runs along the <u>Specs:</u> south edge of this stand. Protect trail with appropriate specs.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
37	71116037-Cut	24.1	4122 - Oak, Pine	High Density Log	100	81-110	Harvest	Shelterwood	4122 - Oak, Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Harvest all black oak and allow white pine and oak saplings to recruit into canopy. Release understory and protect residual white pine. <u>Specs:</u> Snowmobile trail runs through stand. Protect trail with appropriate cutting specs.										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
<b>Total Treatment</b> <b>Acreage Proposed: 109.7</b>										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	#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  
Jason Lewicki : Examiner

Compartment 116  
Year of Entry 2015

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C	2H	2G	2A
	Available	Not Available						
24	24		<b>Aspen</b>	10	14			
51	50	1	<b>Cedar</b>	50		1		
176	176		<b>Jack Pine</b>	176				
29	11	18	<b>Lowland Conifers</b>	3	8		18	
21		21	<b>Lowland Mixed Forest</b>				21	
20	20		<b>Mixed Upland Deciduous</b>	20				
133	120	12	<b>Natural Mixed Pines</b>	120	0	12		
254	232	21	<b>Oak</b>	182	51			21
63	63		<b>Red Pine</b>	63				
7		7	<b>Upland Conifers</b>			7		
58	58		<b>Upland Mixed Forest</b>		58			
835	755	80	Total Forested Acres	624	131	21	39	21
	90%	10%	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
002	Not Available	2A: Adjacent landowner denied access	22				
<b>Comments:</b>							
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13				
<b>Comments:</b>							

**Report 5 – Site Conditions**

Roscommon Mgt. Unit  
Jason Lewicki : Examiner

Compartment 116  
Year of Entry 2015

004	Not Available	2G: Too wet (sensitive soils, does not include access issues)	39
Comments:			
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	232
Comments:			
006	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	13
Comments:			
007	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8
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
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Comments				
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## 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.



Stand	Roscommon Mgt. Unit		Report 8 – Forested Stands			Compartment: 116 Year of Entry: 2015	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
2	4122 - Oak, Pine	High Density Log	13.0	105		Stand was shelterwood cut in 2006.	
3	4131 - Aspen, Oak	High Density Pole	13.8	25	1-50		
7	4122 - Oak, Pine	High Density Log	21.2	110			
8	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	10.5	103	51-80		
9	6124 - Lowland Spruce- Fir	Low Density Pole	7.2	100			
11	6130 - Fir, Aspen, Maple	High Density Pole	21.3	103	81-110	Some bumps or pockets of higher ground containing aspen and oak component.	
12	4130 - Aspen	High Density Sapling	5.1	7			
13	4310 - Pine, Oak Mix	High Density Log	58.3	110			
15	6124 - Lowland Spruce- Fir	High Density Pole	8.3	75			
16	4126 - White, Black, N. Pin Oak	High Density Log	37.9	115	81-110	Stand of primarily white oak mixed with white pine. Some black oak throughout stand.	
17	4130 - Aspen	High Density Sapling	5.7	7			
18	4122 - Oak, Pine	High Density Log	37.4	110	51-80	Stand of black and white oak mixed with heavy white pine component. Some scattered jack pine especially on SE side of stand. Black oak is overmature and in decline. White pine is of younger age class.	
19	6120 - Lowland Cedar	High Density Log	18.4	110	141-170	Nice cedar sawtimber stand with scattered large white pine.	
20	42260 - Natural Pine, Mixed Deciduous	High Density Pole	24.5	26	81-110		
21	42250 - Pine, Oak	High Density Pole	81.6	26	1-50		
23	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	55.6	15			
24	42250 - Pine, Oak	High Density Pole	11.9	55	81-110	Stand had all black oak, maple and jack pine removed last entry.	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	42111 - Planted Red Pine, Mixed Deciduous	High Density Sapling	39.3	15		
26	4122 - Oak, Pine	High Density Log	3.3	110	81-110	
27	4125 - Black, N. Pin Oak	High Density Sapling	93.1	6		Stand was cut in the summer of 2006 and planted to red pine. Stand has heavy competition of oak and cherry. Some pockets of aspen and scattered jack pine.
28	42120 - Planted Jack Pine	High Density Pole	88.2	26	1-50	
29	42260 - Natural Pine, Mixed Deciduous	High Density Log	12.7	110	111-140	
30	6120 - Lowland Cedar	High Density Pole	32.3	105	111-140	
31	6127 - Lowland Pine	High Density Pole	2.7	75	51-80	White pine bog.
32	429 - Mixed Upland Conifers	High Density Log	7.5	110	111-140	
33	4122 - Oak, Pine	High Density Log	24.1	110	111-140	Stand of old black oak mixed with heavy white pine component. Some scattered aspen and jack pine.
34	42110 - Planted Red Pine	High Density Log	24.1	89	111-140	Mature red pineplantation that was thinned in 1996. All oak and jack pine were removed. Stand has heavy understory of advanced oak regen.
35	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	32.0	15		
36	4199 - Other Mixed Upland Deciduous	High Density Sapling	19.8	19	1-50	
37	4122 - Oak, Pine	High Density Log	24.1	100	81-110	Stand of old black oak and white pine some oak and jack pine were removed in the past. Good understory of oak and pine.
38	42260 - Natural Pine, Mixed Deciduous	High Density Log	2.3	120	111-140	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	50 - Water	21.2	No	Unspecified	
4	6229 - Mixed lowland shrub	69.7	No	Unspecified	
5	6229 - Mixed lowland shrub	9.6	No	Unspecified	
6	50 - Water	4.0	No	Unspecified	
10	6229 - Mixed lowland shrub	7.6	No	Unspecified	
14	6225 - Bog	1.4	No	Unspecified	
22	6225 - Bog	0.8	No	Unspecified	