



# Compartment Review Presentation

## Roscommon Forest Management Unit

Compartment 39

Entry Year 2015

Acreage: 988

County Roscommon

Management Area: Ogemaw Hills

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**Revision Date:** 08/05/2013

**Stand Examiner:** Jason Lewicki

**Legal Description:**

T24N, R02W sections 27 and 34

**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 consist of Greycalm-Grayling and Grayling sands. Lowland soils consist of Tawas-Lupton muck. The topography on the north end of the compartment is generally flat while the south end rises up to "Murray Hill"

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

There are two large blocks of private property within this compartment.

**Unique Natural Features:**

No Unique Natural Features known.

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

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

None known

**Watershed and Fisheries Considerations:**

This compartment is part of the AuSable River watershed.

**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 somewhat limited due to large wetland areas.

**Survey Needs:**

Possible survey need for timber harvesting operations within stand 33.

**Recreational Facilities and Opportunities:**

The Geels ORV trail runs through the compartment. Most other recreational activities are in the form of hunting.

**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**

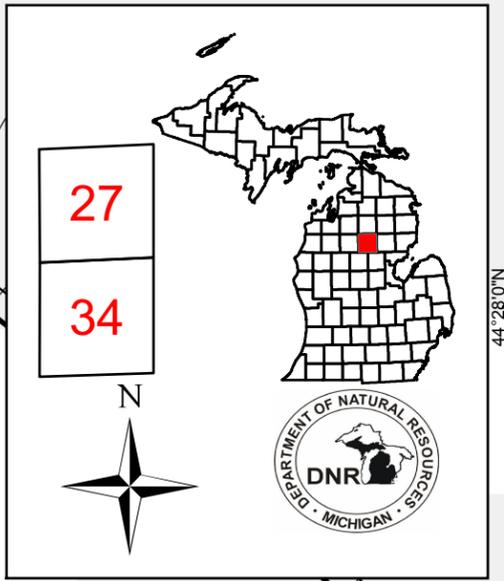
**The following information is displayed, where pertinent, on the attached compartment maps:**

- 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: 039  
 T24N R02W  
 Sections 27, 34  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2015  
 Acres: 988 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
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Railroads
- Powerline
- Stream
- Intermittent Stream
- Lakes and Rivers
- Snowmobile Trail
- ORV Trail
- ORV Route
- ORV Trails
- ORV Routes
- Snowmobile Trails

### Treatments

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

### Forest Stands

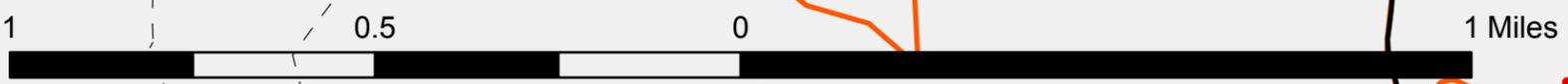
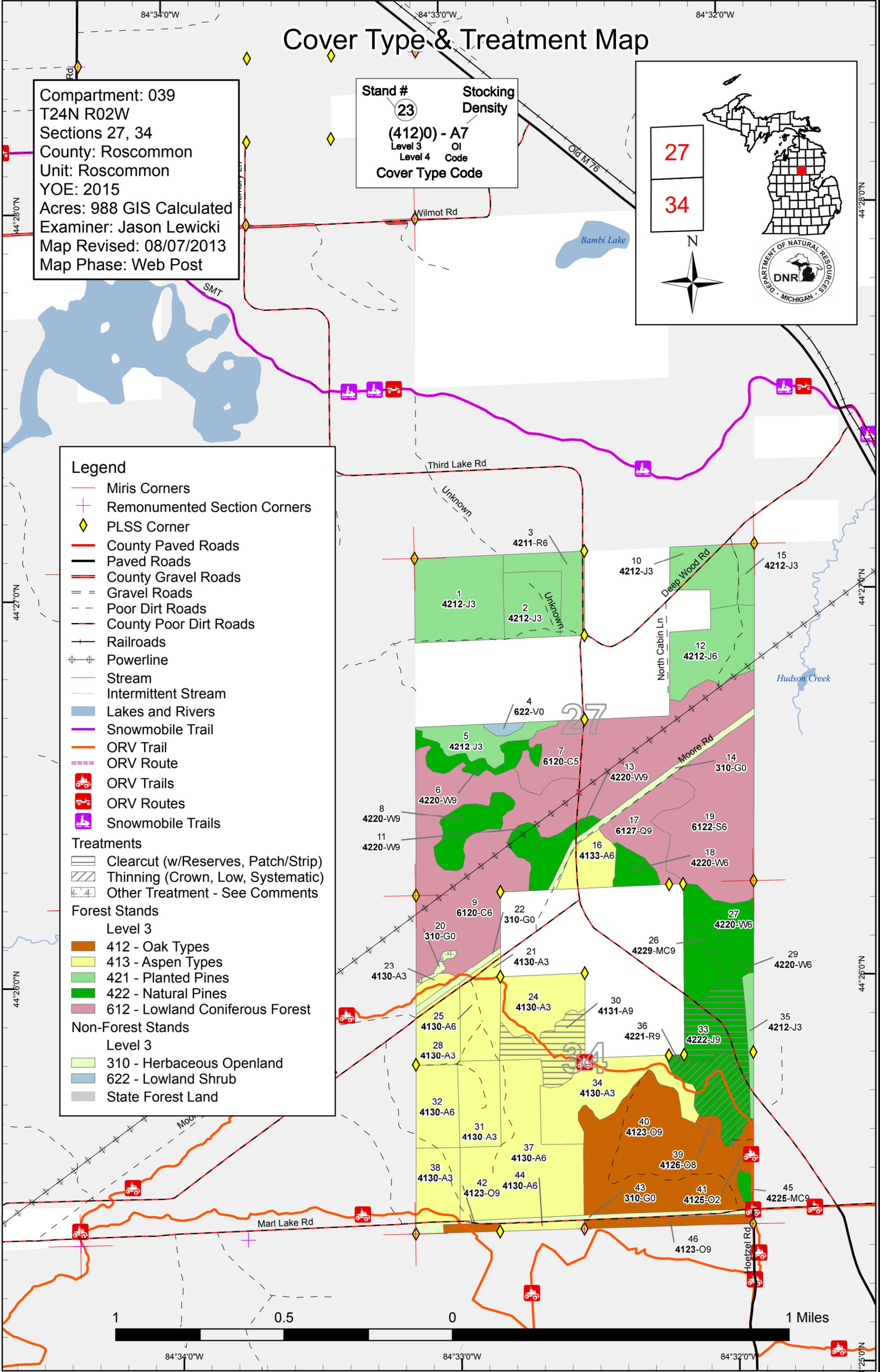
Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest

### Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- State Forest Land

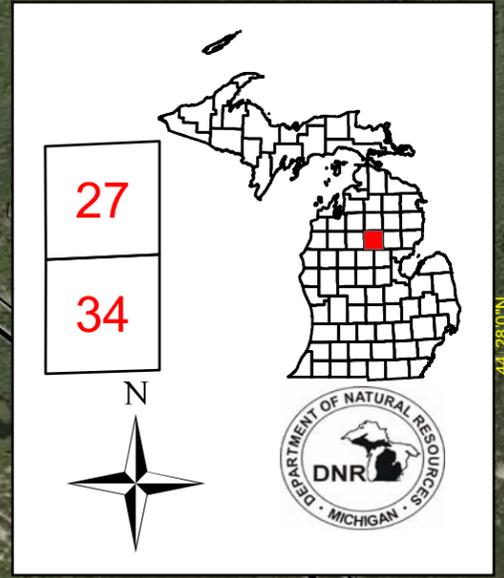


84°34'0"W 84°33'0"W 84°32'0"W

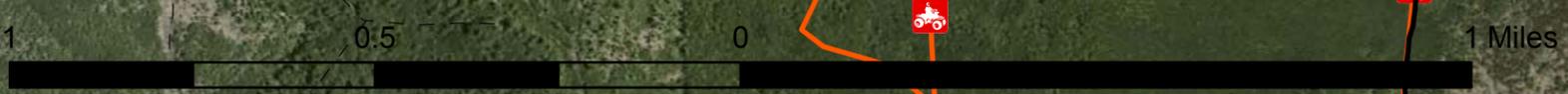
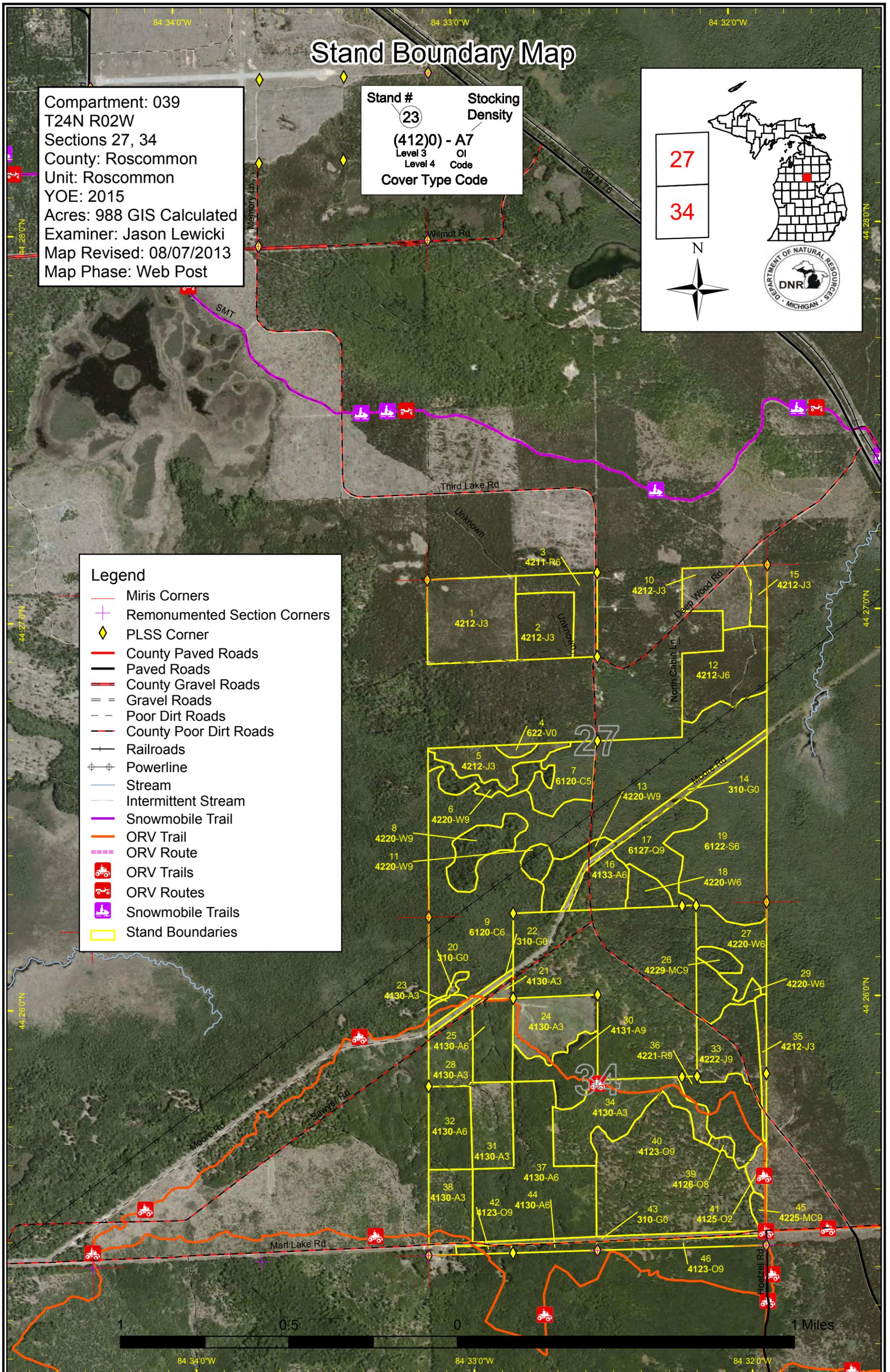
# Stand Boundary Map

Compartment: 039  
 T24N R02W  
 Sections 27, 34  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2015  
 Acres: 988 GIS Calculated  
 Examiner: Jason Lewicki  
 Map Revised: 08/07/2013  
 Map Phase: Web Post

**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
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 Level 4 Code  
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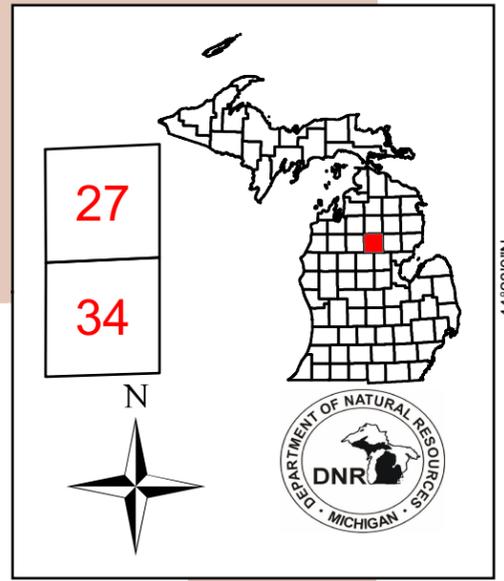
- Legend**
- Miris Corners
  - + Remonumented Section Corners
  - ◆ PLSS Corner
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - = Gravel Roads
  - - Poor Dirt Roads
  - - County Poor Dirt Roads
  - Railroads
  - ⊕ Powerline
  - Stream
  - - Intermittent Stream
  - Snowmobile Trail
  - ORV Trail
  - - ORV Route
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  - 🛷 Snowmobile Trails
  - ▭ Stand Boundaries



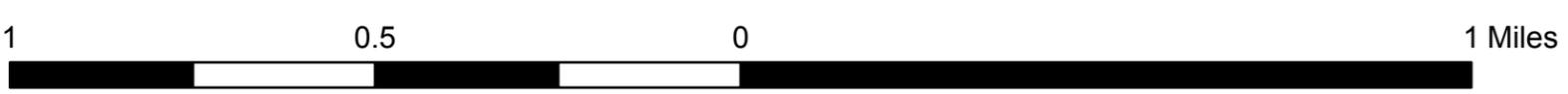
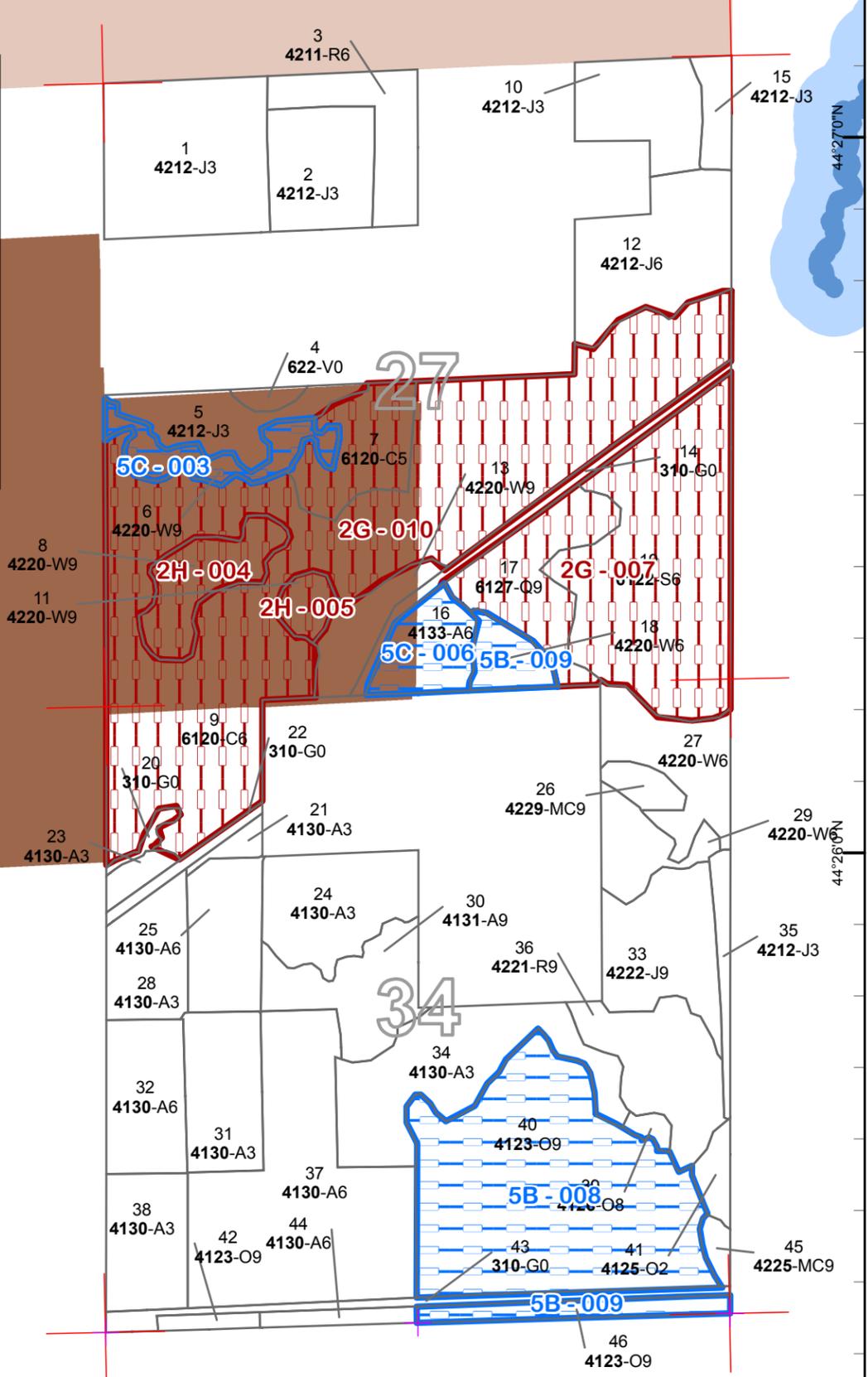
# Special Conservation Areas & Site Conditions Map

Compartment: 039  
 T24N R02W  
 Sections 27, 34  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2015  
 Acres: 988 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
  - Site Condition Available**
  - Available w/ Constraints (Factor - Number)
  - Unavailable (Factor - Number)
  - Dedicated Special Conservation Areas**
  - Research, Development, and Military Lands
  - Wildlife Management Areas
  - Natural Rivers Zoning District
  - Natural Rivers Vegetative Buffer
  - Stand Boundaries



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

44°28'0"N

44°27'0"N

44°26'0"N

44°28'0"N

44°27'0"N

44°26'0"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	27	96	113	0	14	0	0	0	0	21	0	0	0	0	271
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	174	18	0	0	0	192
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Jack Pine	0	77	64	0	0	0	0	0	0	25	0	0	0	0	167
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	23	0	0	0	23
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	69	0	0	0	69
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7
Oak	4	0	0	0	0	0	0	0	0	104	0	0	0	0	109
Red Pine	0	0	17	0	24	0	0	0	0	0	0	0	0	0	41
White Pine	0	0	0	0	11	39	0	0	0	0	33	0	0	0	83
<b>Total</b>	<b>58</b>	<b>174</b>	<b>195</b>	<b>0</b>	<b>49</b>	<b>39</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>331</b>	<b>143</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>988</b>



## Report 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit  
Year of Entry 2015

Compartment 039  
Total Compartment Acres: 988

### Acres by Treatment Type

Commercial Harvest - 69	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 2	

### Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
<b>Aspen Types</b>	21	0	0	0	0	0	21
<b>Natural Pines</b>	25	0	0	0	24	0	49
<b>Total</b>	46	0	0	0	24	0	69



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
30	71039030-Cut	20.6	4131 - Aspen, Oak	High Density Log	93	111-140	Harvest	Clearcut with Reserves	4130 - Aspen	Fld. Tr. Bdy. - Incomplete	
<u>Prescription</u> Final harvest and manage for aspen. Leave scattered large crowned oak for mast and retention. ORV trail runs through stand. Focus retention <u>Specs:</u> along trail.											
<u>Other</u> <u>Comments:</u>											
<u>Next</u> <u>Steps:</u>											
<u>Proposed</u> <u>Start Date:</u> 10/01/2014											
33	71039033-Cut	25.0	42220 - Natural Jack Pine	High Density Log	92	81-110	Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete	
<u>Prescription</u> Final harvest and plant jack pine. Leave scattered oak and pine for retention. Leave all white oak. Focus areas for retention on NW side of <u>Specs:</u> stand where oak is heavier. Leave 1 brush piles for every 2 acres for "rabbittat" especially on east side of Third Lake Rd.											
<u>Other</u> <u>Comments:</u>											
<u>Next</u> <u>Steps:</u>											
<u>Proposed</u> <u>Start Date:</u> 10/01/2014											
36	71039036-Cut	23.8	42210 - Natural Red Pine	High Density Log	49	141-170	Harvest	Crown Thinning	42211 - Natural Red Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete	
<u>Prescription</u> Thin stand by removing 1/3 its volume. Focus on removing small diameter, suppressed red and white pine. Remove all jack pine and aspen. <u>Specs:</u> Some oak can be marked for removal but large tops may cause damage when felling. Leave all white oak. Leave some aspen for future soft snags. ORV Trail runs through stand. Protect trail will appropriate cutting specs in the contract.											
<u>Other</u> <u>Comments:</u>											
<u>Next</u> <u>Steps:</u>											
<u>Proposed</u> <u>Start Date:</u> 10/01/2014											
20	NF_71039020-NonFor	1.7	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Fld. Tr. Bdy. - Incomplete	
<u>Prescription</u> <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:</b>		<b>71.1</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

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**Total Treatment**  
**Acreage Proposed: 0.0**

## Report 5 – Site Conditions

Roscommon Mgt. Unit  
Jason Lewicki : Examiner

Compartment 039  
Year of Entry 2015

### Availability for Management

Availability for Management			Dominant Site Conditions					
Total Acres	Acres Available	Acres Not Available		No	5C	5B	2H	2G
271	271		Aspen	257	13			
192	1	191	Cedar	1				191
166	166	0	Jack Pine	166				0
23		23	Lowland Conifers					23
68		68	Lowland Spruce/Fir					68
7	7		Natural Mixed Pines	7				
109	109		Oak	9		99		
41	41		Red Pine	41				
82	62	21	White Pine	42	12	7	21	
959	656	303	Total Forested Acres	524	25	107	21	283
	68%	32%	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	12				
<b>Comments:</b>							
004	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16				
<b>Comments:</b>							
005	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5				
<b>Comments:</b>							

**Report 5 – Site Conditions**

Roscommon Mgt. Unit  
Jason Lewicki : Examiner

Compartment 039  
Year of Entry 2015

006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14
Comments:			
007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	92
Comments:			
008	Available	5B: Retention for regeneration purposes	91
Comments:			
009	Available	5B: Retention for regeneration purposes	17
Comments:			
010	Not Available	2G: Too wet (sensitive soils, does not include access issues)	193
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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.

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## Roscommon Mgt. Unit

## Report 8 – Forested Stands

Compartment: 039  
Year of Entry: 2015

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42120 - Planted Jack Pine	High Density Sapling	42.3	15		
42120 - Planted Jack Pine	High Density Sapling	21.3	27		
42110 - Planted Red Pine	High Density Pole	17.2	27	1-50	Red pine plantation with some natural jack pine mixed in. Some red pine reaching pole timber size.
42120 - Planted Jack Pine	High Density Sapling	15.7	15		Seeded in 1998
42200 - Natural White Pine	High Density Log	12.0	105	111-140	
6120 - Lowland Cedar	Medium Density Pole	18.3	105	1-50	
42200 - Natural White Pine	High Density Log	16.0	105	111-140	
6120 - Lowland Cedar	High Density Pole	174.0	95	81-110	
42120 - Planted Jack Pine	High Density Sapling	19.4	15		Stand was seeded to jack pine in 1998.
42200 - Natural White Pine	High Density Log	4.9	105	141-170	
42120 - Planted Jack Pine	High Density Pole	31.7	27		
42200 - Natural White Pine	High Density Log	11.1	50	51-80	Most aspen is closer to the powerline. A small, couple acre patch of natural red pine on the east side of third lake road.
42120 - Planted Jack Pine	High Density Sapling	6.0	20		Stand was seeded in 1993
4133 - Aspen, Mixed Pine	High Density Pole	13.7	48	51-80	Low quality quaking aspen stand with white pine scattered about. A few oak.
6127 - Lowland Pine	High Density Log	23.2	105	111-140	
42200 - Natural White Pine	High Density Pole	7.6	50	81-110	
6122 - Black Spruce	High Density Pole	68.6	105	51-80	
4130 - Aspen	High Density Sapling	2.5	5		

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## Roscommon Mgt. Unit

## Report 8 – Forested Stands

Compartment: 039  
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4130 - Aspen	High Density Sapling	3.4	17		
24	4130 - Aspen	High Density Sapling	24.8	6		Cut in fall of 2006
25	4130 - Aspen	High Density Pole	18.6	24		
26	42290 - Natural Mixed Pine	High Density Log	4.6	95	171-200	Stand of large red and white pine on the border of a small treed bog.
27	42200 - Natural White Pine	High Density Pole	20.3	50	81-110	Old notes indicate that this stand was cut in 1964 leaving the understory at that time.
28	4130 - Aspen	High Density Sapling	16.4	16		
29	42200 - Natural White Pine	High Density Pole	11.1	49	51-80	
30	4131 - Aspen, Oak	High Density Log	20.6	93	111-140	Stand of red oak mixed with high amounts of mature Bigtooth aspen. Stand is found on high hill top.
31	4130 - Aspen	High Density Sapling	20.3	14		
32	4130 - Aspen	High Density Pole	20.1	24	1-50	
33	42220 - Natural Jack Pine	High Density Log	25.0	92	81-110	Stand of 2 aged natural jack pine. Decent amounts of white pine present along with scattered red pine and oak. Good amounts of snowshoe hare activity, especially on the east side of Third Lake Rd.
34	4130 - Aspen	High Density Sapling	37.8	15		
35	42120 - Planted Jack Pine	High Density Sapling	5.4	21		
36	42210 - Natural Red Pine	High Density Log	23.8	49	141-170	Natural red pine stand. Some jack pine and white pine mixed in. Some bigtooth aspen and old oak also. A few old, large, fire scarred red pine present.
37	4130 - Aspen	High Density Pole	70.3	24	1-50	Transitioning to A6
38	4130 - Aspen	High Density Sapling	18.4	14		
39	4126 - White, Black, N. Pin Oak	Medium Density Log	2.0	93	51-80	

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Roscommon Mgt. Unit

## Report 8 – Forested Stands

Compartment: 039  
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4123 - Red Oak	High Density Log	90.8	93	51-80	Decent quality red oak stand that has been understory burned twice(2005 and 2008). Many oak have recieved fire damage to the butt logs. Some mortality. Understory is generally thick with maple, aspen and witch hazel. Drop RX burning prescription.
41	4125 - Black, N. Pin Oak	Medium Density	4.4	4		Stand was clearcut with a 4" spec. Some scattered mature white oak present. Decent amount of oak saplings still struggling to get out of browse height. Some scattered pine.
42	4123 - Red Oak	High Density Log	2.6	93	1-50	
44	4130 - Aspen	High Density Pole	4.2	22	51-80	
45	42250 - Pine, Oak	High Density Log	2.6	93	51-80	Small stand of mixed oak and pine. Thinned/shelterwooded last entry.
46	4123 - Red Oak	High Density Log	9.0	93		Stand had red maple and aspen cut out of it in January of 2009.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	6225 - Bog	2.2	No	Unspecified	
14	3102 - Grass	9.1	No	Unspecified	
20	3102 - Grass	1.7	Yes	High	
22	3102 - Grass	3.3	No	Unspecified	
43	3102 - Grass	9.8	No	Unspecified	Powerline