



**ROSCOMMON FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 37      ENTRY YEAR: 2010**

**Compartment Acreage: 1280      County: Roscommon**

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**Revision Date:** 3/19/08

**Stand Examiner:** D. Ekdom

**Legal Description:** T24N R02W Sections 28 and 33

**Management Goals:** Maintain current age and species diversity in a range of early and late successional ecosystems.

**Soil and Topography:** Topography is flat on the northern three-quarters and the southern quarter is the north slope of Murray Hill. Soils are Rubicon, Roselawn, and Grayling sands on the upland portions and rifle peat in the swamps.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Compartment is a solid block of state ownership and is surrounded by state land except for a 10 acre private parcel in the SESE of Section 32 used as a hunting camp and an undeveloped 80 acre private parcel also used for hunting in the S1/2NW Section 27. Compartment has two Consumers Energy transmission R.O.W's in Section 33.

**Unique, Natural Features:** No current MNFI concerns but potential for T and E species does exist as shown by MNFI hits in adjacent compartments. The center of the compartment is a large cedar swamp which is part of the Robinson Creek Flooding complex and part of the headwaters for Robinson Creek.

**Archeological, Historical, and Cultural Features:** No SHPO hits currently and none found during fieldwork.

**Special Management Designations or Considerations:** Stands adjacent to Robinson Creek are designated as HCVA's due to Robinson Creek being a tributary of a natural river

**Watershed and Fisheries Considerations:** Robinson Creek and Robinson Creek Flooding. Robinson Creek is a tributary of the South Branch of the Au Sable River – a natural river. Below the Robinson Flooding Dam, Robinson Creek is a designated trout stream.

**Wildlife Habitat Considerations:** Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, and turkeys as well as non-game species.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum in other areas of the State. Most of the good gravel pits are associated with upland areas. Gravel pits are located in the area and there should be potential in Section 33. St. Helen Field is located four miles to the northeast. The field has produced over 8.7 million BO and 14.7 Bcf gas from the

Devonian Richfield Formation and is in secondary recovery operations currently. None of the State land in the Compartment is currently leased.

**Vehicle Access:** Vehicle access is excellent seasonally in the upland areas via county roads and forest two-tracks. Access to the northwest corner is off of Lyman Road and access to the northeast corner is off of Third Lake Road.

**Survey Needs:** None necessary at this time.

**Recreational Facilities and Opportunities:** There is a small section of ORV trail within the compartment in Section 33. Recreational activities also include dispersed hunting and camping.

**Fire Protection:** Compartment is mostly hardwoods and swamp with lots of natural and man-made fuel breaks so fire suppression will not be problematic.

**Additional Compartment Information:** Proposed treatments include 20 acres of oak seed tree cuts, 8 acres of oak barrens maintenance, 9 acres of wildlife opening maintenance, and 47 acres of red pine planting in an area which failed to regenerate after final harvest last year of entry.

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
  - ◆ **Cover Type by Age Class**
  - ◆ **Cover Type by Management Objective**
  - ◆ **Compartment Volume Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand numbers, cover types**
  - ◆ **Proposed treatments**
  - ◆ **Proposed road access system**
  - ◆ **Suggested potential old growth**

# Cover Type & Treatment Map

**Compartment 37**  
 T24N, R02W, Sec. 28, 33  
 County: Roscommon  
 Unit: Roscommon  
 YOY: 2010  
 Acres: 1,280 GIS Calculated  
 Stand Examiner: Dale Ekdorn  
 Map Revised: 7/29/2008  
 Map Phase: Pre-review

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

**Legend**

- Miris Corners
- Paved Road
- - - Poor Dirt Road
- - - Trails
- - - Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- ORV Trails
- Snowmobile Trails
- Seed Tree with Reserves
- Prescribed Burn
- Other Treatment - See Comments
- Planting

**Forest Stands**

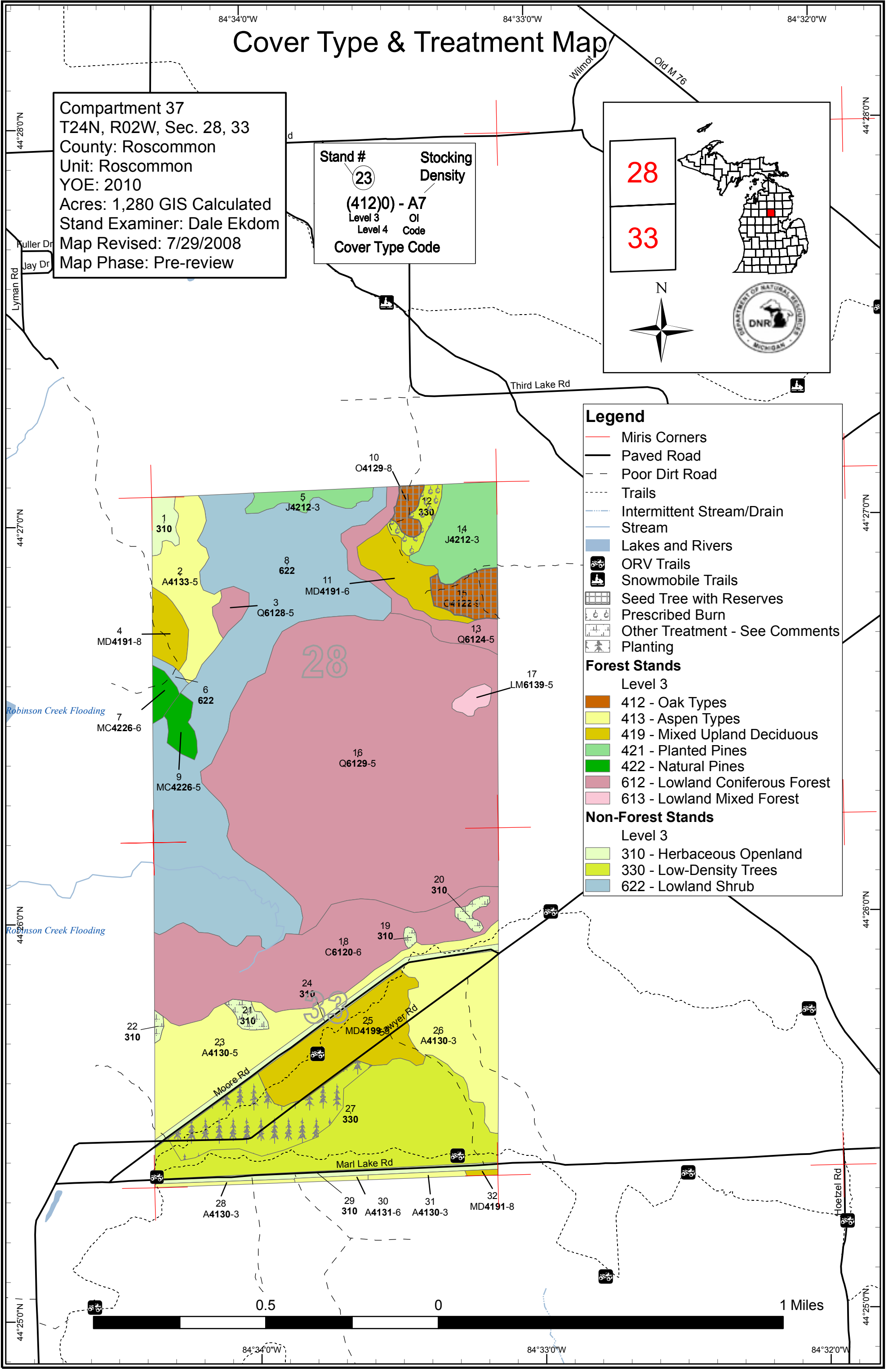
Level 3

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

**Non-Forest Stands**

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub

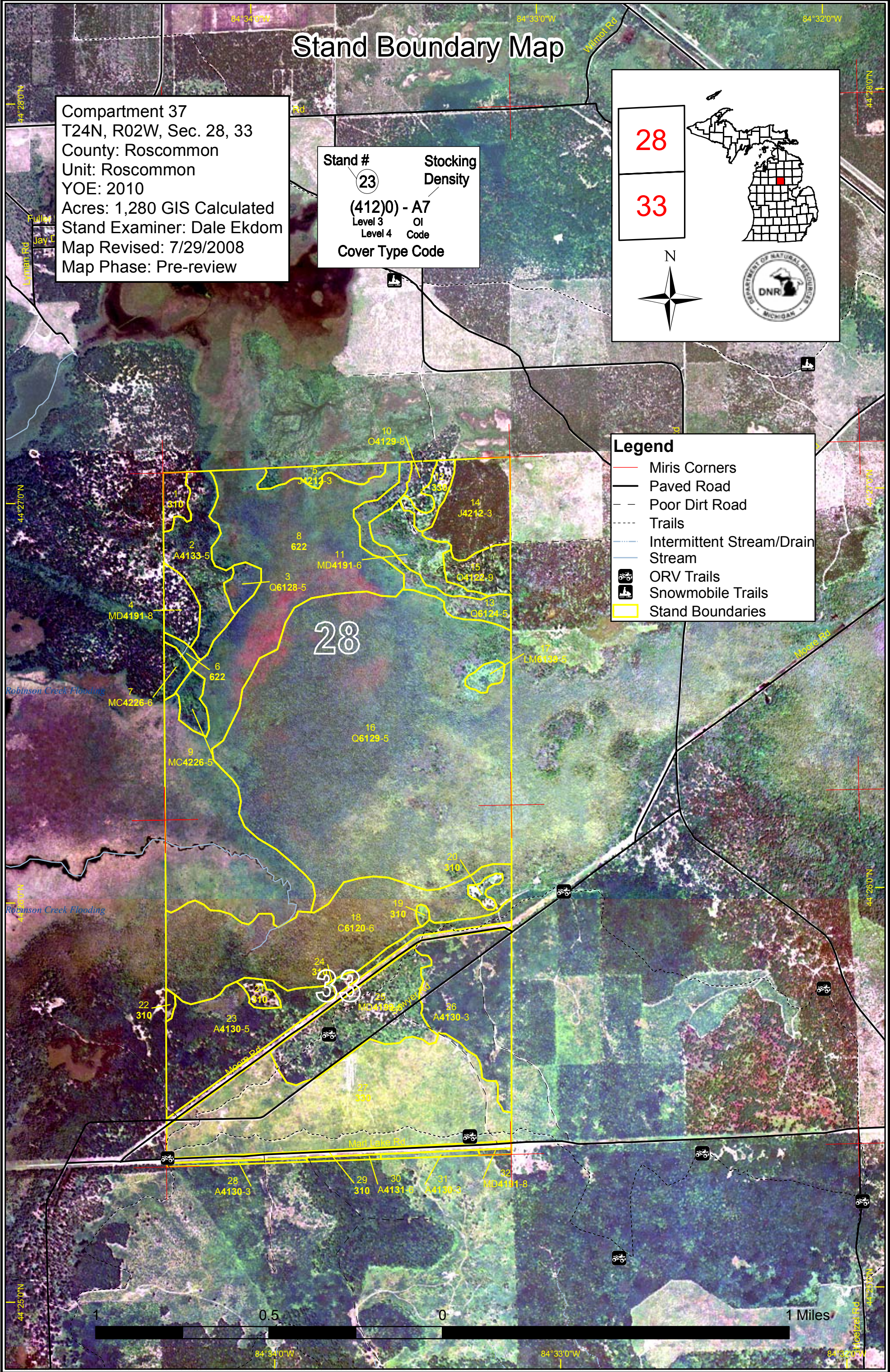


# Stand Boundary Map

Compartment 37  
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  - Paved Road
  - Poor Dirt Road
  - Trails
  - Intermittent Stream/Drain
  - Stream
  - ORV Trails
  - Snowmobile Trails
  - Stand Boundaries



# Dedicated & Proposed Special Conservation Area Map

Compartment 37  
 T24N, R02W, Sec. 28, 33  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2010  
 Acres: 1,280 GIS Calculated  
 Stand Examiner: Dale Ekdorn  
 Map Revised: 7/29/2008  
 Map Phase: Pre-review

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

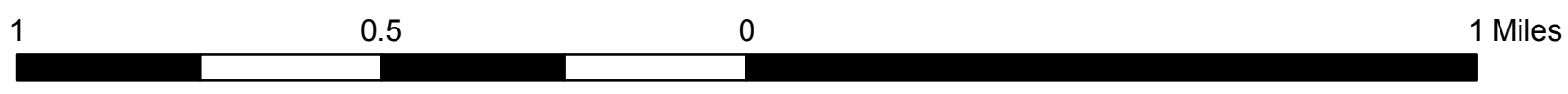
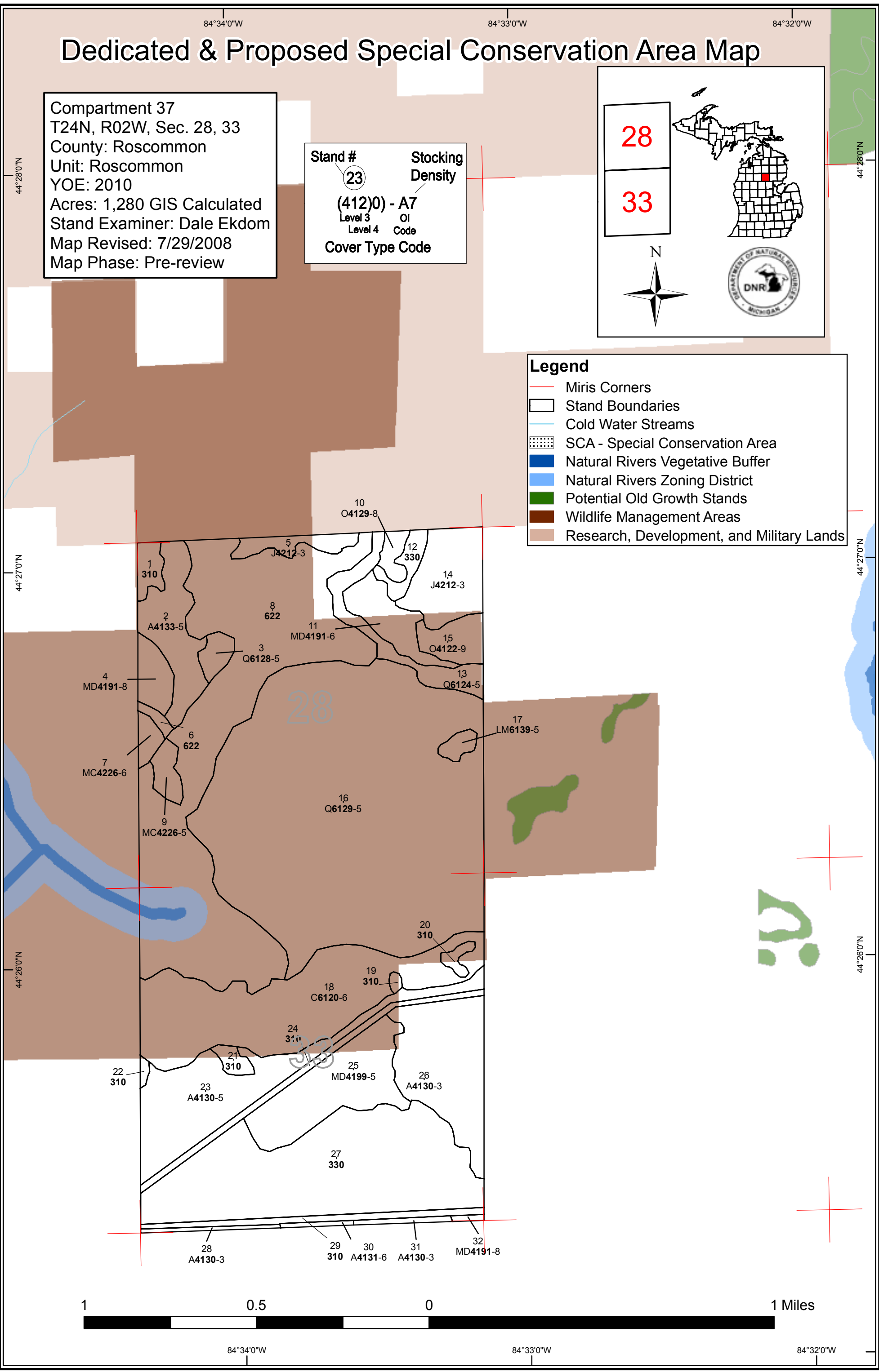
28

33

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**Legend**

- Miris Corners
- Stand Boundaries
- Cold Water Streams
- SCA - Special Conservation Area
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Potential Old Growth Stands
- Wildlife Management Areas
- Research, Development, and Military Lands



84°34'0"W 84°33'0"W 84°32'0"W

44°28'0"N

44°28'0"N

44°27'0"N

44°27'0"N

44°26'0"N

44°26'0"N

Roscommon Mgt. Unit

**Coverture, Acres, and Age summary**  
(Level 3 Cover Type)

Compartment 037 Year of Entry 2010

Report Date: 08/12/2008



	Age Class															
	Non-Forested	1-9	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	Total
Aspen Types	0	2.7	2.8	60.9	0	0	66.4	0	0	34.0	0	0	0	0	0	166.8
Herbaceous Openland	41.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41.4
Low-Density Trees	157.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.4
Lowland Coniferous Forest	0	0	0	0	0	6.3	0	0	0	117.3	0	0	0	377.6	21.7	522.9
Lowland Mixed Forest	0	0	0	4.2	0	0	0	0	0	0	0	0	0	0	0	4.2
Lowland Shrub	228.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	228.2
Mixed Upland Deciduous	0	0	0	71.3	0	0	0	0	0	11.5	1.0	0	0	0	0	83.8
Natural Pines	0	0	0	0	0	7.5	0	0	5.1	0	0	0	0	0	0	12.6
Oak Types	0	0	0	0	0	0	0	0	0	13.7	5.7	0	0	0	0	19.4
Planted Pines	0	0	10.2	33.2	0	0	0	0	0	0	0	0	0	0	0	43.3
<b>Total</b>	<b>426.9</b>	<b>2.7</b>	<b>13.0</b>	<b>169.5</b>	<b>0</b>	<b>13.7</b>	<b>66.4</b>	<b>0</b>	<b>5.1</b>	<b>176.5</b>	<b>6.7</b>	<b>0</b>	<b>0</b>	<b>377.6</b>	<b>21.7</b>	<b>1280.0</b>

**PROPOSED TREATMENTS  
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
10 71037010-Cut	5.7	4129 - Mixed Oak	Medium Density Log	94	Harvest	Seed Tree with Reserves	Oak, Pine

Rev Cmnt: Stand is over-mature oak and jack pine with a mix of red/white pine in the understory. Kotar is ParVHa-ParVVb so red pine and/or white pine should be the alternative management objective.

Rev Spec: Seed Tree leaving large crowned oak, especially white oak, and all red/white pine. Residual B.A. of oak should be 10-30 SF/Acre. No retention in this stand except for the oak seed trees and the R/W pine,

Next Steps: Regeneration survey to determine areas that do not regenerate to oak. Interplant red pine and/or white pine in non-stocked areas where oak does not regenerate and no pine is present.

15 71037015-Cut	13.7	4122 - Oak, Pine	High Density Log	84	Harvest	Seed Tree with Reserves	Oak, Pine
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Rev Cmnt: Stand is overmature oak and jack pine with a mix red/white pine in the understory, Kotar is ParVHa-ParVVb so red pine and/or white pine is the alternative management objective

Rev Spec: Seed tree leaving large crowned oak, especially white oak, and all red/white pine, Residual B.A. of the oak should be 10-30 SF/Acre. No retention in this stand except for the oak seed trees and R/W pine due to the age of the oak

Next Steps: Regeneration survey to determine areas not regenerating to oak, Plant red pine and/or white pine in non-stocked areas which do not regenerate to oak and where white/red pine is not present

27 NF_71037027-Plant	46.5	Unspecified		0	Tree Planting	Hand Plant	Planted Red Pine, Mixed Deciduous
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Rev Cmnt:

Rev Spec: plant red pine normal spacing, do not plant areas well stocked in aspen and oak

Next Steps: regeneration survey

12 NF_71037012-Burn	7.6	Unspecified		0	Prescribed Burn	Unspecified	Low Density Deciduous Trees
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Rev Cmnt: possibly include parts of stand #10 if desired

Rev Spec: moderate burn to kill sapling size trees to maintain as oak barrens/grassy opening

Next Steps: periodic light burns to maintain oak barrens

19 NF_71037019-NonFor	1.1	Unspecified		0	Non-Forest Management	Other - Specify	
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Rev Cmnt:

Rev Spec: opening maintenance as specified by WD

Next Steps:

20 NF_71037020-NonFor	3.1	Unspecified		0	Non-Forest Management	Other - Specify	
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Rev Cmnt:

Rev Spec: opening maintenance as specified by WD

Next Steps:

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Roscommon Mgt. Unit  
Inventory Method: IFMAP

**PROPOSED TREATMENTS  
NO LIMITING FACTORS**

Compartment: 037

Entry Yr: 2010

Date 07/29/2008



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
21 NF_71037021-NonFor	4.2	Unspecified		0	Non-Forest Management	Other - Specify	

Rev  
Cmnt:

Rev opening maintenance as specified by WD  
Spec

Next  
Steps:

22 NF_71037022-NonFor	1.2	Unspecified		0	Non-Forest Management	Other - Specify	
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Rev  
Cmnt:

Rev opening maintenance specified by WD  
Spec

Next  
Steps:

**Total Treatment  
Acreage Proposed: 83.2**

**PROPOSED TREATMENTS  
WITH LIMITING FACTORS**



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Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 1
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Limiting Factor  
and Comment:

Rev  
Cmnt:

Rev  
Spec:

Next  
Steps:

No Treatment  
Reason

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**Total Treatment  
Acreage Proposed:        0**



**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.

Inventory Method: IFMAP

Stand	SCA Name	Acres	Comments



## 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
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.
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	Potential Old Growth Areas	This category contains stands were identified for a broad range of reasons and were coded in the OI database as stand condition 8 as potential old growth (POG). Approximately 310,000 acres have been identified through the Operations Inventory (OI)/Compartment Review process. For stands in Year of Entry 2008 and forward, potential old growth is managed for the identified objective until it is: 1) vetted through the Biodiversity Conservation Planning Process (BCPP) and given a specific designation and objective (as an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation; or 2) it is released from the potential old growth designation via the Compartment Review process.
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.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4133 - Aspen, Mixed Pine	Medium Density Pole	34.0	86		
6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	6.3	48		failed aspen cut (?)
4191 - Mixed Upland Deciduous with Conifer	Medium Density Log	11.5	86		mixed stand of HW's, trending towards all-aged
42120 - Planted Jack Pine	High Density Sapling	10.2	14		planted 1993
42260 - Natural Pine, Mixed Deciduous	High Density Pole	5.1	75	111-140	nice stand of mixed pine and hardwoods, leave alone for now??
42260 - Natural Pine, Mixed Deciduous	Medium Density Pole	7.5	45	111-140	RP Site Index = 52
4129 - Mixed Oak	Medium Density Log	5.7	94		possible seed tree leaving large crowned oaks and all red/white pine
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	19.8	25		transition zone between upland oaks/pine and lowland swamp conifers
6124 - Lowland Spruce-Fir	Medium Density Pole	21.7	Uneven Age		stand is going towards all-aged after at least 1 cut in the last 20-30 years which removed hardwoods, scattered XLog WP/RP/JP which is 121 years old
42120 - Planted Jack Pine	High Density Sapling	33.2	25		Rx Burned and seeded in 1982, scattered SL size pine also
4122 - Oak, Pine	High Density Log	13.7	84		overmature oak/jack pine with white pine coming in underneath, possibly seed tree leaving large crowned oak and all R/W pine
6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	377.6	1886		large complex of stagnant swamp with cedar and tamarack, tag alder understorey through out a good portion of the stand, extremely wet with lots of dead stubs, fluctuating water levels
6139 - Mixed Lowland Forest	Medium Density Pole	4.2	25		4" spec. habitat cut (?) in 1982, which left scattered oak and WP XLogs
6120 - Lowland Cedar	High Density Pole	117.3	85		also has scattered pulp size hardwoods
4130 - Aspen	Medium Density Pole	66.4	57		SL oak with pulp size aspen and red maple, aspen still fairly small, manage for aspen in 10 years
4199 - Other Mixed Upland Deciduous	Medium Density Pole	51.4	25		possibly thin in 20-30 years, scattered WO and MO XLogs
4130 - Aspen	High Density Sapling	59.1	25		good A3 regeneration with scattered RM and Oak



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	4130 - Aspen	High Density Sapling	2.8	18		Cut with Compt 60 to the south in 1989
30	4131 - Aspen, Oak	High Density Pole	1.8	26		
31	4130 - Aspen	High Density Sapling	2.7	8		Very good NRO site which was clearcut in 1999
32	4191 - Mixed Upland Deciduous with Conifer	Medium Density Log	1.0	93		2 aged stand of oak-red maple overstory with WP-RP understory



Stand	Cover Type	Acres	Gen Cmts:
1	310 - Herbaceous Openland	6.7	
6	622 - Lowland Shrub	2.4	
8	622 - Lowland Shrub	225.8	
12	330 - Low-Density Trees	7.6	
19	310 - Herbaceous Openland	1.1	
20	310 - Herbaceous Openland	3.1	
21	310 - Herbaceous Openland	4.2	
22	310 - Herbaceous Openland	1.2	
24	310 - Herbaceous Openland	13.6	
27	330 - Low-Density Trees	149.7	
29	310 - Herbaceous Openland	11.4	