



## ROSCOMMON FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 93

ENTRY YEAR: 2012

Compartment Acreage: 961

County: Roscommon

**Revision Date:** 05-13-2010

**Stand Examiner:** Ben Wiese

**Legal Description:** T23N R1W sections 35, and 36

**Management Area:** Ogemaw Hills

**Management Goals:** Maintain the St. Helen Motorsports Area and the associated recreational opportunities. Provide for sustainable ecosystem based management including wildlife and forest products. Thin overstocked stands to provide healthy and diverse forested stands.

**Soil and Topography:** Soils are somewhat to excessively drained, mostly Grayling, Graycalm sands and 21 acres of Rubicon sand on the east edge of the compartment. Topography ranges from 1200 to 1300 feet. Part of the Grayling outwash plain with gentle rolling hills and irregular ice contact ridges and four small kettle lakes in the northwest.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The west side borders a subdivision. The rest of the compartment borders state-owned land except for the southeast corner which is bordered by 100 acres of privately owned land.

**Unique, Natural Features:** Kirtland's warbler documented in section 36 of compartment; also recorded in sections to immediate N and E. Several bald eagle occurrences to NW. Common loon to NW. Eastern massasauga to SW. Secretive locust to S.

**Archeological, Historical, and Cultural Features:** None noted.

**Special Management Designations or Considerations:** St. Helen Motorsports area.

**Watershed and Fisheries Considerations:** None noted.

**Wildlife Habitat Considerations:** Deer, grouse, turkey, bear, birds.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of ice-contact outwash sand and gravel. 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 in the State. Most of the nearby gravel pits are associated with upland areas. The nearest gravel pit is located one mile to the southwest. Gravel potential is thought to be good. St. Helen Field lies seven miles to the northwest. 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 is currently leased in the compartment.

**Vehicle Access:** There is good access throughout the compartment, utilizing various forest roads, county roads and motorsports trails.

**Survey Needs:** None at this time

**Recreational Facilities and Opportunities:** The St. Helen Motorsport Area located in section 36 provides an officially designated ORV use area.

**Fire Protection:** Wildland urban interface exists along the west boundary. Roads and ORV trails provide good access. Most of the compartment is jack pine cover type. Richfield Township fire department is located within 4 miles of the entire compartment.

**Additional Compartment Information:**

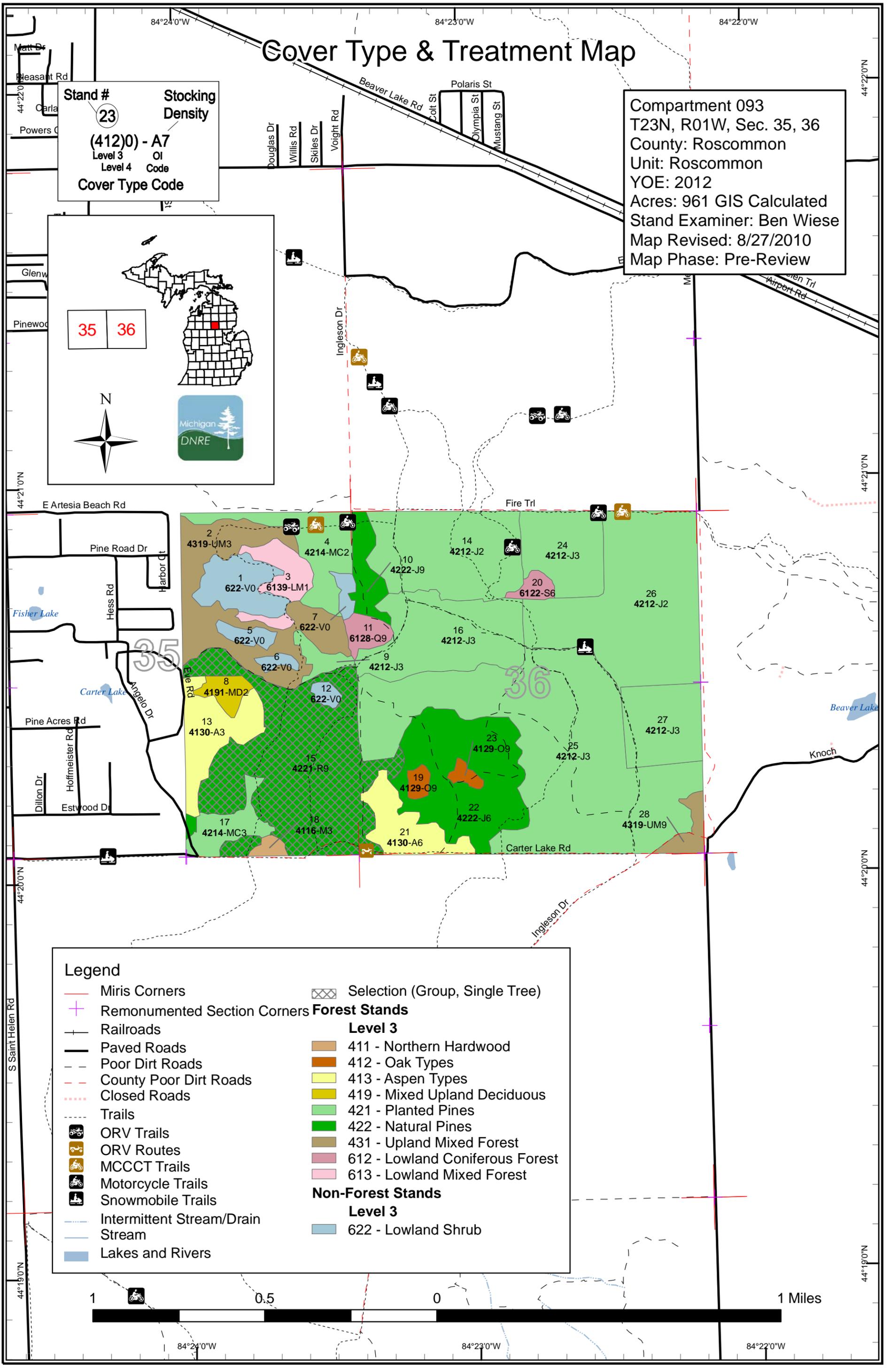
- **The following 5 reports from the Inventory are attached:**
  - ◆ **Cover Type by Age Class**
  - ◆ **Cover Type by Management Objective**
  - ◆ **Compartment Volume Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  
- **The following 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

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

**Stocking Density**

Compartment 093  
T23N, R01W, Sec. 35, 36  
County: Roscommon  
Unit: Roscommon  
YOE: 2012  
Acres: 961 GIS Calculated  
Stand Examiner: Ben Wiese  
Map Revised: 8/27/2010  
Map Phase: Pre-Review



**Legend**

- Miris Corners
- + Remonumented Section Corners
- Railroads
- Paved Roads
- - - Poor Dirt Roads
- - - County Poor Dirt Roads
- ..... Closed Roads
- ..... Trails
- ORV Trails
- ORV Routes
- MCCCT Trails
- Motorcycle Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Selection (Group, Single Tree)

**Forest Stands**

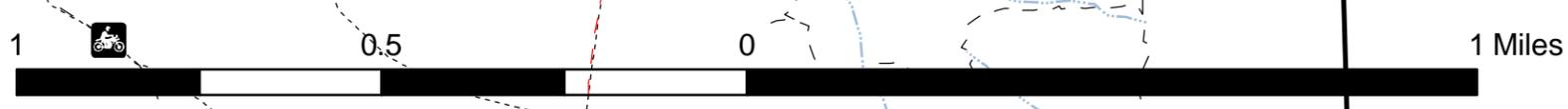
**Level 3**

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

**Non-Forest Stands**

**Level 3**

- 622 - Lowland Shrub



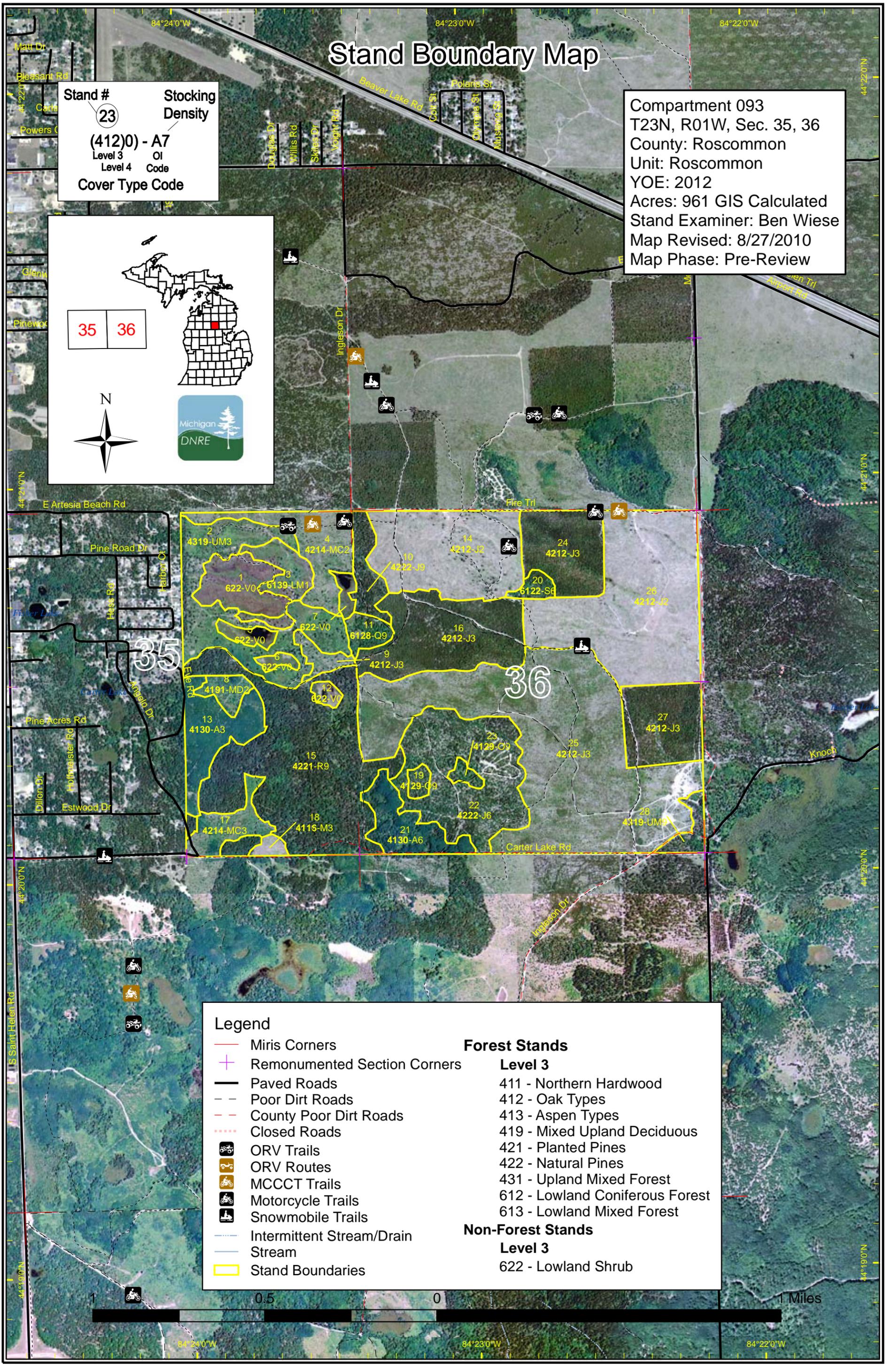
84°24'0"W 84°23'0"W 84°22'0"W 44°21'0"N 44°20'0"N 44°19'0"N

# Stand Boundary Map

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

Compartment 093  
 T23N, R01W, Sec. 35, 36  
 County: Roscommon  
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 YOE: 2012  
 Acres: 961 GIS Calculated  
 Stand Examiner: Ben Wiese  
 Map Revised: 8/27/2010  
 Map Phase: Pre-Review

Michigan  
 DNRE



**Legend**

- Miris Corners
- + Remonumented Section Corners
- Paved Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- ⋯ Closed Roads
- ORV Trails
- ORV Routes
- MCCCT Trails
- Motorcycle Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

**Forest Stands**

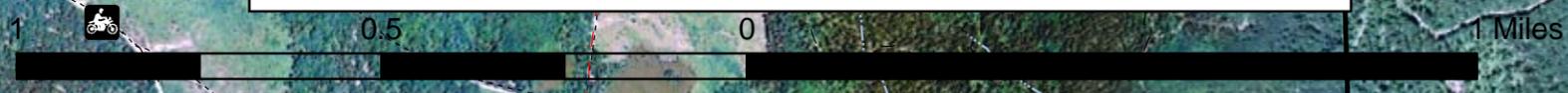
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**Non-Forest Stands**

**Level 3**

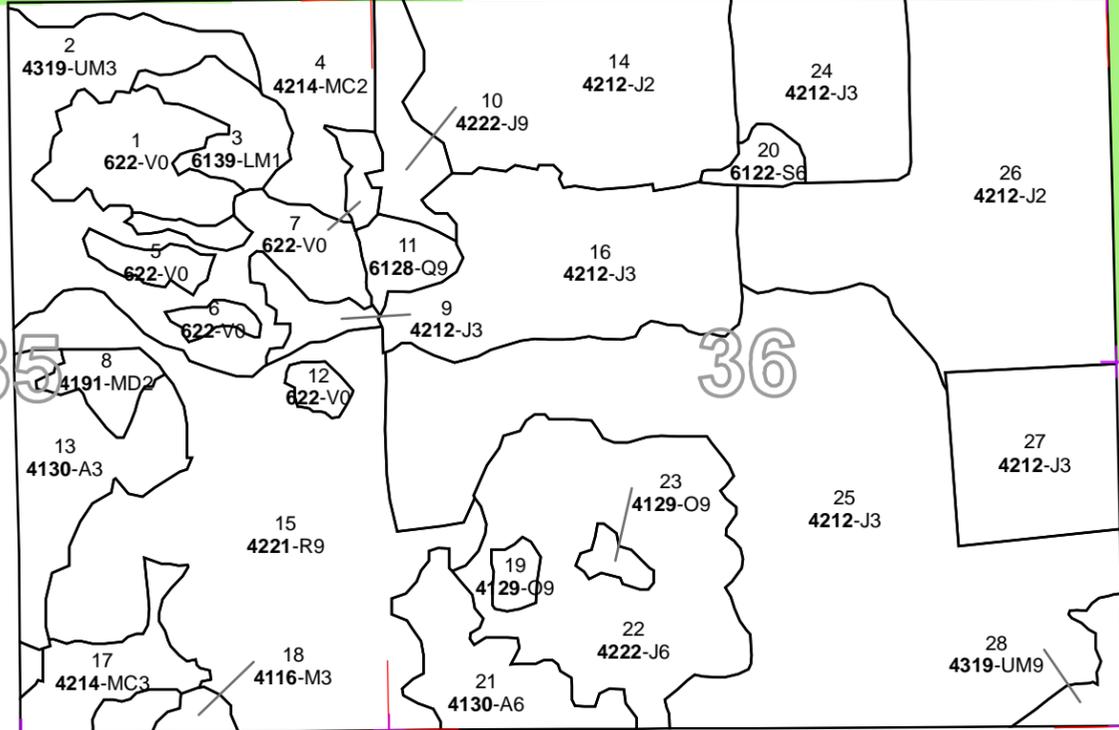
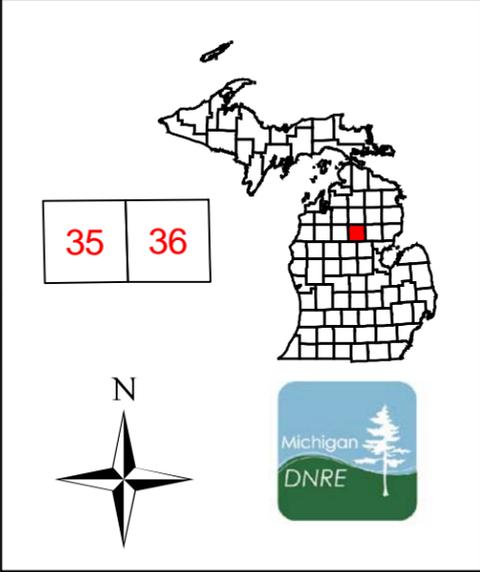
- 622 - Lowland Shrub



# Dedicated & Proposed Special Conservation Area Map

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

Compartment 093  
 T23N, R01W, Sec. 35, 36  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2012  
 Acres: 961 GIS Calculated  
 Stand Examiner: Ben Wiese  
 Map Revised: 8/27/2010  
 Map Phase: Pre-Review



**Legend**

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Proposed Special Conservation Areas**
- ▨ SCA - Special Conservation Area
- ▩ SCA Removal
- Dedicated Special Conservation Areas**
- Kirtland Warbler Habitat

**Forest Stands**

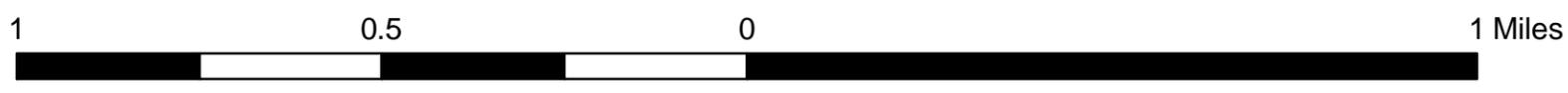
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**Non-Forest Stands**

**Level 3**

- 622 - Lowland Shrub



84°24'0"W      84°23'0"W      84°22'0"W

44°22'0"N  
44°21'0"N  
44°20'0"N  
44°19'0"N

84°24'0"W      84°23'0"W      84°22'0"W

**Table 1 – Total Acres by Cover Type and Age Class**

Data updated before 10:00 AM



	Age Class														Total	
	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
Aspen	0	0	28	0	0	23	0	0	0	0	0	0	0	0	0	51
Bog	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Jack Pine	0	179	199	0	128	70	0	0	0	0	0	0	0	13	0	589
Lowland Conifers	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Lowland Mixed Forest	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Spruce/Fir	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Oak	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6
Planted Mixed Pines	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	45
Red Pine	0	0	0	0	0	0	0	0	128	0	0	0	0	0	0	128
Upland Mixed Forest	0	0	60	0	0	0	7	0	0	0	0	0	0	0	0	67
<b>Total</b>	<b>37</b>	<b>182</b>	<b>354</b>	<b>0</b>	<b>128</b>	<b>92</b>	<b>7</b>	<b>12</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>961</b>



## Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Roscommon Mgt. Unit  
Year of Entry 2012

Compartment 093  
Total Compartment Acres: 960.9

### Acres by Treatment Type

Commercial Harvest - 127	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Red Pine	0	127	0	0	0	0	127
<b>Total</b>	<b>0</b>	<b>127</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>127</b>



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	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	71093015-Cut	127.1	42210 - Natural Red Pine	High Density Log	79	Harvest	Single Tree Selection	Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription: Thin stand to 70-100 basal area. Mark to cut to improve quality of residual red pine, jack pine, oak and maple. Remove some utility poles and sawlogs. Spec aspen to cut. Leave mast trees. Allow good quality red maple poles to mature into logs. Future stand would be red pine with mixed jack pine and upland deciduous.

Other Comments: Very nice red pine stand utility pole and sawlog quality. Large ammounts of course woody debris. The jack pine is at the end of it's lifespan. There are some loiw drainage areas with red maple and white pine dominating. There is an ATV trail running north and south throught the central part of the stand and illegal ATV activity along the north part near the private line and in the wet depression in the northeast portion.

Next Steps:

**Total Treatment  
Acreage Proposed: 127.1**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Limiting Factor and No  
Treatment Reason

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**Total Treatment**  
**Acres Proposed: 0**

Data updated before 10:00 AM

Out of YOE -- Treatments  
Prescribed with No Limiting Factor

Year of Entry: 2012



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription  
Specs:

Other  
Comments:

Next  
Steps:

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**Total Treatment  
Acreage Proposed: 0**

Stand	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 093	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012	
2	4319 - Mixed Upland Forest	High Density Sapling	59.6	17			Scattered pin oak super canopy trees. Scattered quaking aspen clones mixed with jack pine and deciduous.
3	6139 - Mixed Lowland Forest	Low Density Sapling	15.4	17			Stand burned ~ 6 years ago. Residual density varies.
4	42141 - Planted Mixed Pine, Mixed Deciduous	Medium Density	30.0	17			Stand has varying densities of scattered cherry and oak.
8	4191 - Mixed Upland Deciduous with Conifer	Medium Density	7.2	18			Stand was originally part of stand 8. Aspen did not regenerate as good, however pin oak is doing well.
9	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	6.3	17			Scattered overstory pin oak. Small interspersed leatherleaf bogs, some have black spruce, white pine, jack pine and tamarack in trace amounts.
10	42220 - Natural Jack Pine	High Density Log	13.4	120	81-110		Nice mature stand. This is the only one like it in the compartment.
11	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	7.5	60	51-80		Super canopy white pine. This stand is very unique for this compartment. Jack pine and red pine strewn on west edge. Fair amount of course woodey debris. Trace amounts of paper birch.
13	4130 - Aspen	High Density Sapling	28.1	18			Very good aspen clone regeneration. Pin oak stump sprouts in understory.
14	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	66.8	3			Fully stocked plantation, planted in 2007. Pin oak stump sprouts. Scattered residual overstory of jack pine, red pine and pin oak.
15	42210 - Natural Red Pine	High Density Log	128.2	79	141-170		Very nice red pine stand utility pole and sawlog quality. Large amounts of course woody debris. The jack pine is at the end of it's lifespan. There are some low drainage areas with red maple and white pine dominating.
16	42120 - Planted Jack Pine	High Density Sapling	60.1	31			Scattered overstory red pine and pin oak. Quaking aspen in small clone near snowmobile trail.
17	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Sapling	15.3	15			Nice mixed plantation. Large band of quaking aspen running through the middle.
18	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	3.1	6			Many red maple stump sprouts. Majority of oak stumps did not regenerate. Trace red pine and jack from natural seed source.
19	4129 - Mixed Oak	High Density Log	3.4	102	81-110		Stand looks to be a remnant. Scattered large red pine in canopy, with variable red pine regen. in understory. Majority of the oak is still healthy.
20	6122 - Black Spruce	High Density Pole	4.8	60			Black spruce swamp with leatherleaf and alder.



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Roscommon Mgt. Unit

## 5 – Forested Stands

Compartment: 093

Data updated before 10:00 AM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4130 - Aspen	High Density Pole	22.5	41	81-110	Decent aspen stand, bigtooth and quaking. The bigtooth is nice. Patches of mixed pine, pin oak, and cherry between aspen clones.
22	42220 - Natural Jack Pine	High Density Pole	69.8	41		Nice stand, looks natural with scattered red pine.
23	4129 - Mixed Oak	High Density Log	3.1	102	51-80	Stand looks to be a remnant. Red pine and jack pine are established in the understory, dense in some areas, sparse in others.
24	42120 - Planted Jack Pine	High Density Sapling	34.4	31		Well stocked jack pine plantation.
25	42120 - Planted Jack Pine	High Density Sapling	192.3	17		Well stocked jack pine plantation with pin oak mixture.
26	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	111.8	3		Well established jack pine plantation, with pin oak stump sprouts. Scattered overstory pin oak and jack pine.
27	42120 - Planted Jack Pine	High Density Sapling	33.7	31		
28	4319 - Mixed Upland Forest	High Density Log	7.5	59	51-80	Mixed dry upland species, 1.2 acre pocket of oak with red maple understory in SE corner.



Stand	Cover Type	Acres	Gen Cmts:
1	6225 - Bog	21.9	Leatherleaf bog with standing bured jack pine snags.
5	6225 - Bog	5.0	
6	6225 - Bog	2.7	
7	6225 - Bog	3.8	
12	6225 - Bog	3.1	



**7 – 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.

*Data updated before 10:00 AM*

<b>Stand</b>	<b>SCA Type</b>	<b>SCA Name</b>	<b>Acres</b>	<b>Comments</b>
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**8 – 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.

*Data updated before 10:00 AM*

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

Conservation Area	Type	Description
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.