



# Compartment Review Presentation

## Roscommon Forest Management Unit

Compartment 1

Entry Year 2015

Acreage: 952

County Roscommon

Management Area: Ausable Outwash

---

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

**Stand Examiner:** Jason Lewicki

**Legal Description:**

T24N, R1W, Section 1 and 2

**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 consist mainly of Perecheney, Graycalm and Grayling sands. The topography is generally flat to gently rolling on the north side of section 1.

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

The north 1/2 of section 2 is private property. Kirtland Community College is located just to the south west in section 10.

**Unique Natural Features:**

The Red Pine Natural Area and pathway is located within section 2.

**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:**

Stands 6, 10 and 13 are designated SCA's. Stand 10 is listed as a ecological reference area for a example of "Dry Northern Forest".

**Watershed and Fisheries Considerations:**

This compartment lies within the AuSable River watershed. There are no fisheries concerns at this time.

**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:**

Various county roads and forest roads are found throughout this compartment making vehicle access very good.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

The Red Pine Natural Area and pathway provide hiking and educational purposes. The Midland to Mackinaw trail also runs through this compartment. Various hunting opportunities also exist.

**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: 001  
 T24N R01W Sections 1, 2  
 County: Roscommon  
 Unit: Roscommon  
 YOY: 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**

2 1  
 N  
 DNR  
 DEPARTMENT OF NATURAL RESOURCES  
 MICHIGAN

### Legend

- Miris Corners
- Remonumented Section Corners
- PLSS Corner
- Paved Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Pipeline
- Powerline
- Stream
- Intermittent Stream
- Snowmobile Trail
- Ski Trail
- Hiking Trail
- Hiking Trails
- Snowmobile Trails

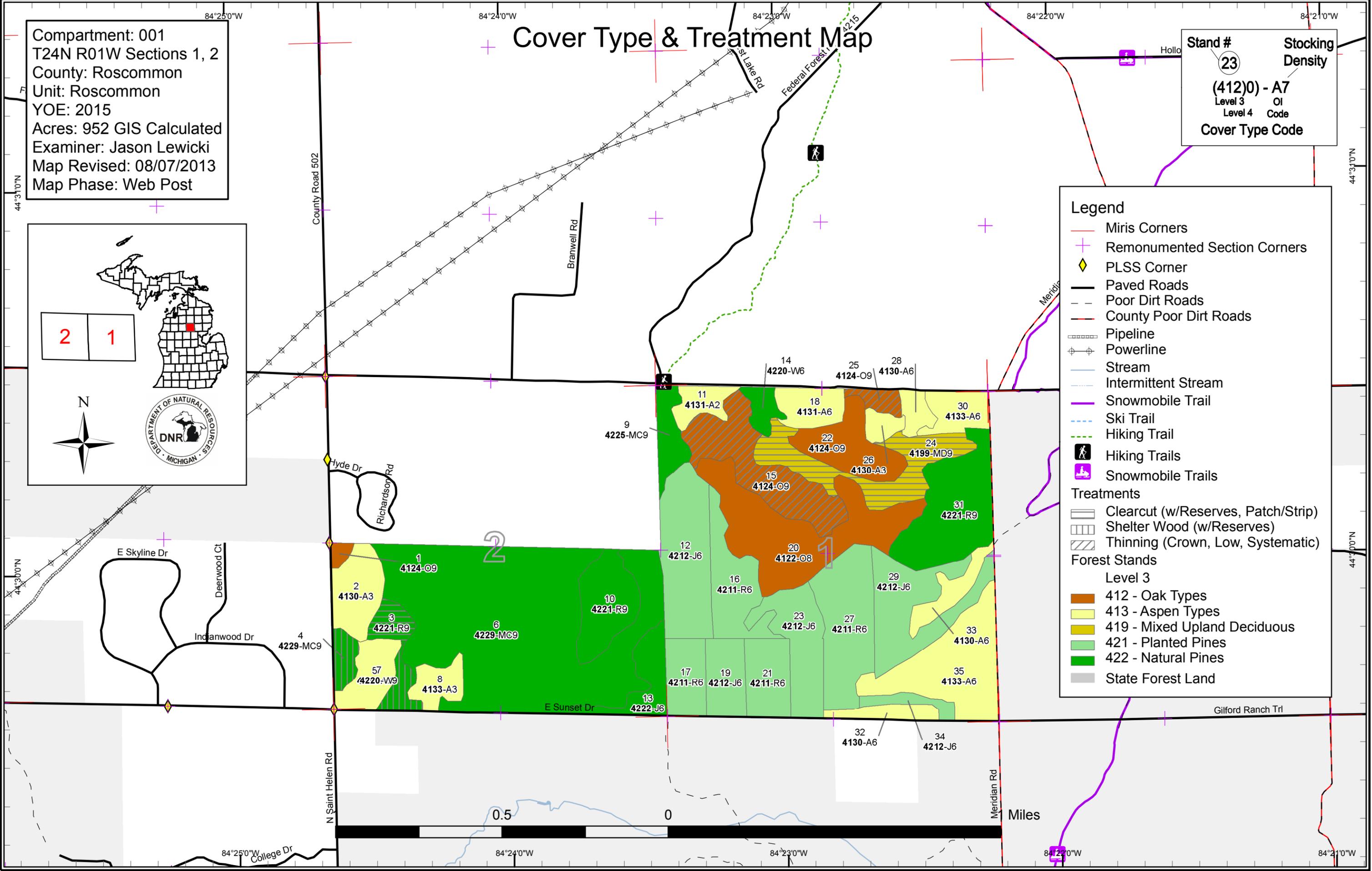
### Treatments

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

### Forest Stands

Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- State Forest Land



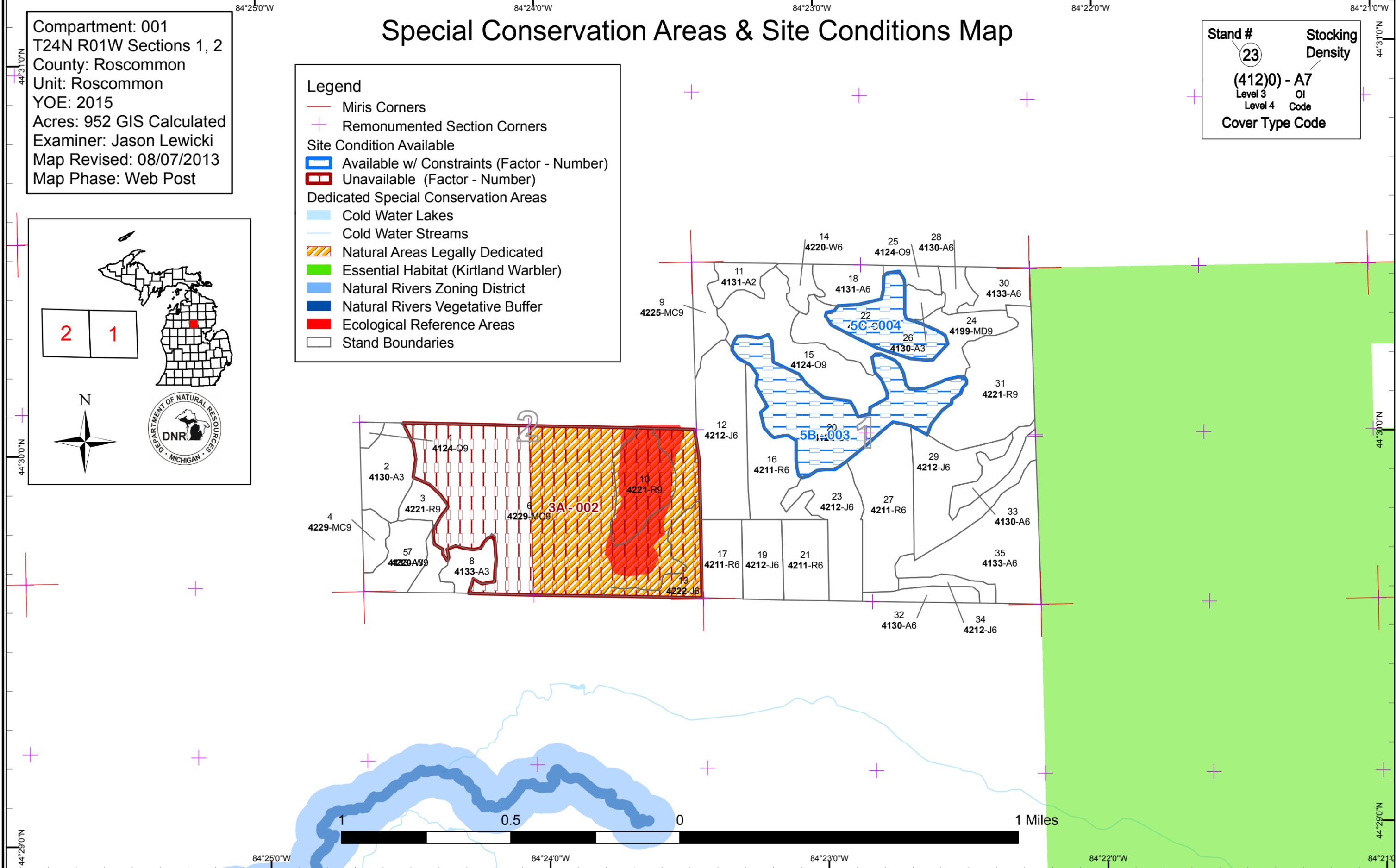
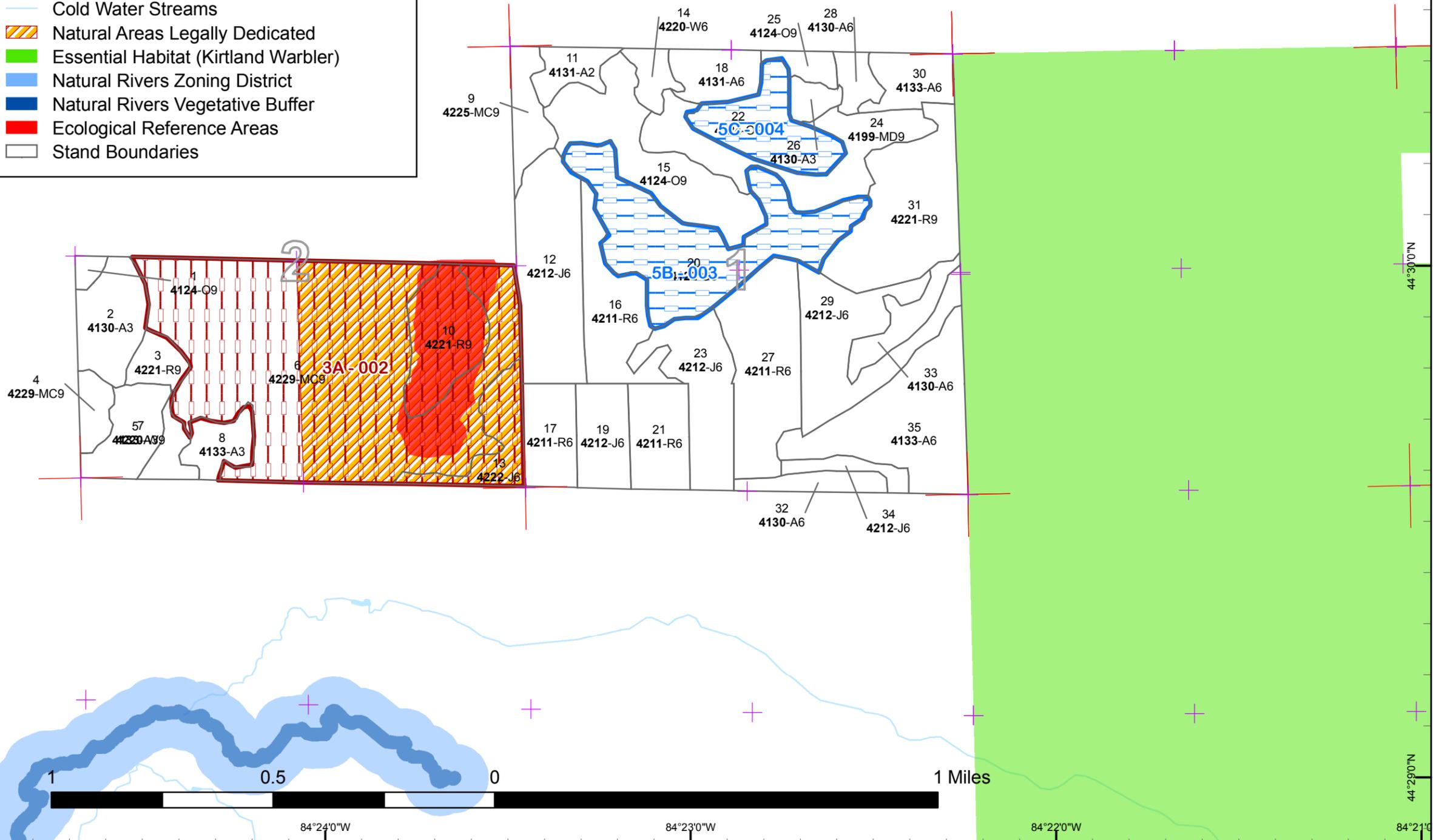
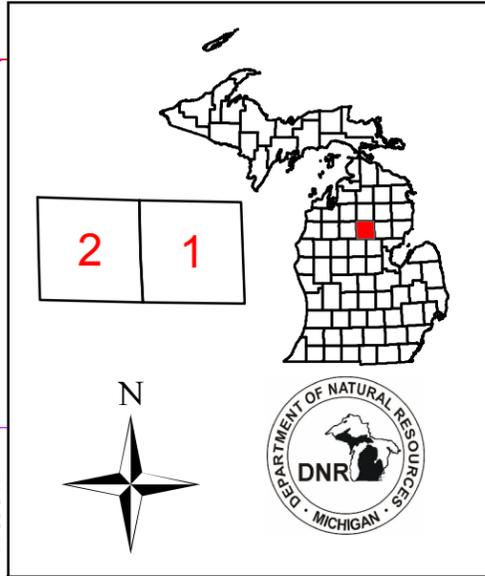


# Special Conservation Areas & Site Conditions Map

Compartment: 001  
 T24N R01W Sections 1, 2  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2015  
 Acres: 952 GIS Calculated  
 Examiner: Jason Lewicki  
 Map Revised: 08/07/2013  
 Map Phase: Web Post

Stand #  
 23  
 Stacking  
 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
  - Cold Water Lakes
  - Cold Water Streams
  - Natural Areas Legally Dedicated
  - Essential Habitat (Kirtland Warbler)
  - Natural Rivers Zoning District
  - Natural Rivers Vegetative Buffer
  - Ecological Reference Areas
  - Stand Boundaries



**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	6	61	108	0	0	0	0	0	0	0	0	0	0	0	175
Jack Pine	0	0	144	0	0	0	18	0	0	0	0	0	0	0	162
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	38	0	0	0	0	38
Natural Mixed Pines	0	0	0	0	0	0	0	0	13	0	204	0	0	0	216
Oak	0	0	0	0	0	0	0	0	0	149	0	0	0	0	149
Red Pine	0	0	112	0	0	0	0	50	0	0	36	0	0	0	198
White Pine	0	0	0	0	0	7	0	0	0	0	7	0	0	0	14
<b>Total</b>	<b>6</b>	<b>61</b>	<b>364</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>18</b>	<b>50</b>	<b>13</b>	<b>187</b>	<b>247</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>952</b>



## Report 2 – Proposed Treatment Summaries

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

**Compartment 001**  
**Total Compartment Acres: 952**

### Acres by Treatment Type

Commercial Harvest - 112    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
Mixed Upland Deciduous	38	0	0	0	0	0	38
Natural Pines	8	0	0	15	0	0	23
Oak Types	0	0	0	0	51	0	51
<b>Total</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>51</b>	<b>0</b>	<b>112</b>



S  
t  
a  
n  
d

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	-----------	--------------	-----------	----------	----------------	------------------	----------------------	-----------------

#Type!

Prescription  
Specs:

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: #Type!

---

**Total Treatment  
Acreage Proposed: 0**

S  
t  
a  
n  
d

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	-----------	--------------	-----------	----------	----------------	------------------	----------------------	-----------------

#Type!

PrescriptionSpecs:OtherComment:NextSteps:ProposedStart Date: #Type!Limiting Factor

<b>Total Treatment Acreage Proposed:</b>	<b>0</b>
--	----------

## Report 5 – Site Conditions

Roscommon Mgt. Unit  
Jason Lewicki : Examiner

Compartment 001  
Year of Entry 2015

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C	5B	3A
	Available	Not Available					
175	174	0	<b>Aspen</b>	174		0	
162	144	17	<b>Jack Pine</b>	144		0	17
38	38		<b>Mixed Upland Deciduous</b>	38			
216	20	196	<b>Natural Mixed Pines</b>	20			196
147	147		<b>Oak</b>	53	27	67	
197	170	28	<b>Red Pine</b>	169		0	28
14	14		<b>White Pine</b>	14			
949	708	241	Total Forested Acres	614	27	68	241
	75%	25%	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	<b>3A: Potential old growth / biodiversity</b>	242				
<b>Comments:</b> "Roscommon Red Pines"							
003	Available	<b>5B: Retention for regeneration purposes</b>	69				
<b>Comments:</b>							
004	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	27				
<b>Comments:</b>							



**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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4124 - Red with White Oak	High Density Log	2.7	90	81-110	
2	4130 - Aspen	High Density Sapling	22.5	17		
3	42210 - Natural Red Pine	High Density Log	8.1	105	111-140	Stand of high quality red pine that was thinned in 1994. Extremely heavy understory of red maple.
4	42290 - Natural Mixed Pine	High Density Log	7.6	105	111-140	Mixed red and white pine stand along F-97. Some white pine in the understory. Some old aspen in decline scattered about.
5	4133 - Aspen, Mixed Pine	High Density Sapling	17.5	17	1-50	Aspen stand mixed with heavy white pine. Scattered larger red and white pine.
6	42290 - Natural Mixed Pine	High Density Log	196.2	105	111-140	Large stand of red and white pine. Some maple oak and aspen mixed in. Maple and white pine in understory. Part of the red pine natural area SCA.
7	42200 - Natural White Pine	High Density Log	7.2	105	111-140	Small stand of red and white pine with very nice form. Understory consists of wick hazel, maple and white pine. Stand was thinned in 1994.
8	4133 - Aspen, Mixed Pine	High Density Sapling	11.4	17		
9	42250 - Pine, Oak	High Density Log	12.8	82	81-110	Natural pine stand with oak mixed in. Red maple in the understory. Areas of mature bigtooth aspen on north end of stand along road. Red maple would probably take over understory if thinned. If clear cut, it would be dominated by red maple.
10	42210 - Natural Red Pine	High Density Log	27.9	105	141-170	Red pine natural area.
11	4131 - Aspen, Oak	Medium Density	9.8	16		
12	42120 - Planted Jack Pine	High Density Pole	46.4	26	51-80	
13	42220 - Natural Jack Pine	High Density Pole	17.5	63	81-110	Jack pine stand mixed with oak and red pine. More of a mixed pine and oak stand on northern half.
14	42200 - Natural White Pine	High Density Pole	7.2	55	81-110	
15	4124 - Red with White Oak	High Density Log	45.1	92	111-140	Stand of medium quality red and white oak. Red maple poles and old bigtooth aspen scattered about. Variable height understory of white pine. Some red and white pine sawtimber in the canopy scattered about.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	42110 - Planted Red Pine	High Density Pole	29.3	26	81-110	Quality decreases to south and east.
17	42110 - Planted Red Pine	High Density Pole	17.8	26	51-80	
18	4131 - Aspen, Oak	High Density Pole	14.4	27	51-80	Some areas of good oak stump sprout in pole size class.
19	42120 - Planted Jack Pine	High Density Pole	17.9	26	1-50	
20	4122 - Oak, Pine	Medium Density Log	68.0	90	1-50	Oak stand that had all maple aspen and black oak cut last entry. All white oak and white pine was left. Created a shelterwood scenario. Some good areas of oak but they are struggling to get above browse height.
21	42110 - Planted Red Pine	High Density Pole	20.5	26	51-80	
22	4124 - Red with White Oak	High Density Log	27.1	92	51-80	Red oak stand that was thinned in 1996. Some nice red oak logs growing.
23	42120 - Planted Jack Pine	High Density Pole	31.5	26	51-80	
24	4199 - Other Mixed Upland Deciduous	High Density Log	38.0	90	81-110	Stand of low quality oak with areas of heavy red maple component. Scattered aspen. White pine and maple in understory.
25	4124 - Red with White Oak	High Density Log	5.7	92	111-140	Medium quality red and white oak stand with heavy amounts of advanced white pine regeneration.
26	4130 - Aspen	High Density Sapling	5.7	6		
27	42110 - Planted Red Pine	High Density Pole	44.6	26	51-80	
28	4130 - Aspen	High Density Pole	6.9	27	51-80	More maple and oak on the south side.
29	42120 - Planted Jack Pine	High Density Pole	42.1	26	1-50	
30	4133 - Aspen, Mixed Pine	High Density Pole	14.3	27	51-80	
31	42210 - Natural Red Pine	High Density Log	49.6	76	111-140	red pine stand that was thinned last entry. Avg BA ranges from 100-130. Diameters range from 10-15". There is a understory of advanced oak. Some maple and cherry.
32	4130 - Aspen	High Density Pole	8.8	29	81-110	Low quality quaking aspen. Look at harvesting next entry.

S  
t  
a  
n  
d

Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 001  
Year of Entry: 2015



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	4130 - Aspen	High Density Pole	11.7	28	51-80	
34	42120 - Planted Jack Pine	High Density Pole	6.3	26	1-50	
35	4133 - Aspen, Mixed Pine	High Density Pole	51.9	29	51-80	Poor quality aspen with pockets of pine. Consider harvesting next entry.



---

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
-------	------------	-------	--------------	---------------------------------	-------------------

---