



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT #3

ENTRY YEAR: 2012

Compartment Acreage: 1642

County: Roscommon

Revision Date: 6-2-2010

Stand Examiner: Jason Lewicki

Legal Description: T24N, R1W, Sections 11, 14, 23 and 24

Management area: AuSable Outwash

Management Goals: To maintain species and structural diversity while managing the ecosystem for health, productivity, sustainability and recreation within the compartment.

Soil and Topography: Uplands consist of mostly Kellog and Geels sands along with Pinewood and Debolt sandy loams. Lowlands consist of Tawas-Lupton mucks. The topography is generally flat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State land is intermixed with private ownership. Private property has a mix of both forested and agricultural uses.

Unique, Natural Features: None known

Archeological, Historical, and Cultural Features: A small home site is found in T24N, R1W S. 24 NE1/4.

Special Management Designations or Considerations: Stands 1 and 2 are nominated for “potential old growth” and are an SCA.

Watershed and Fisheries Considerations: East creek and the south branch of East creek flow through section 11. This creek eventually flows into the south branch of the AuSable River.

Wildlife Habitat Considerations: Provide and maintain habitat for a variety of game and non game species.

Mineral Resource and Development Concerns and/or Restrictions: Sections 11 and 14, T24N R1RoscommonCounty

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. Most of the nearby gravel pits are associated with upland areas. The nearest gravel pit is located just to the west of the compartment. Gravel potential in the compartment is thought to be limited. St. Helen Field lies to the south and west. 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.

Sections 23 and 24, 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 400 and 600 feet. Beneath the glacial drift is the Mississippian Marshall Sandstone. The Marshall has been used as a building stone. Most of the nearby gravel pits are associated with upland areas. The nearest gravel pit is located one-quarter mile to the south. Gravel potential

is thought to be limited. St. Helen Field produces in the compartment. 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. All of the State mineral rights are currently leased in the compartment.

Vehicle Access: Vehicle access within the uplands is good.

Survey Needs: Possible survey needed around KCC firing range before timber sale prep work is done on stand #3.

Recreational Facilities and Opportunities: There is a snowmobile trail that touches the south edge of the compartment.

Fire Protection: Much of the compartment is hardwood and lowland cover types. Large wildfire concerns are minimal.

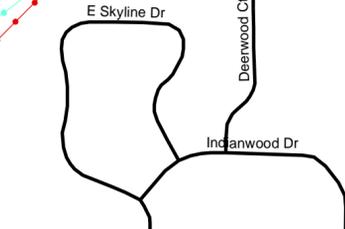
Additional Compartment Information:

- **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**

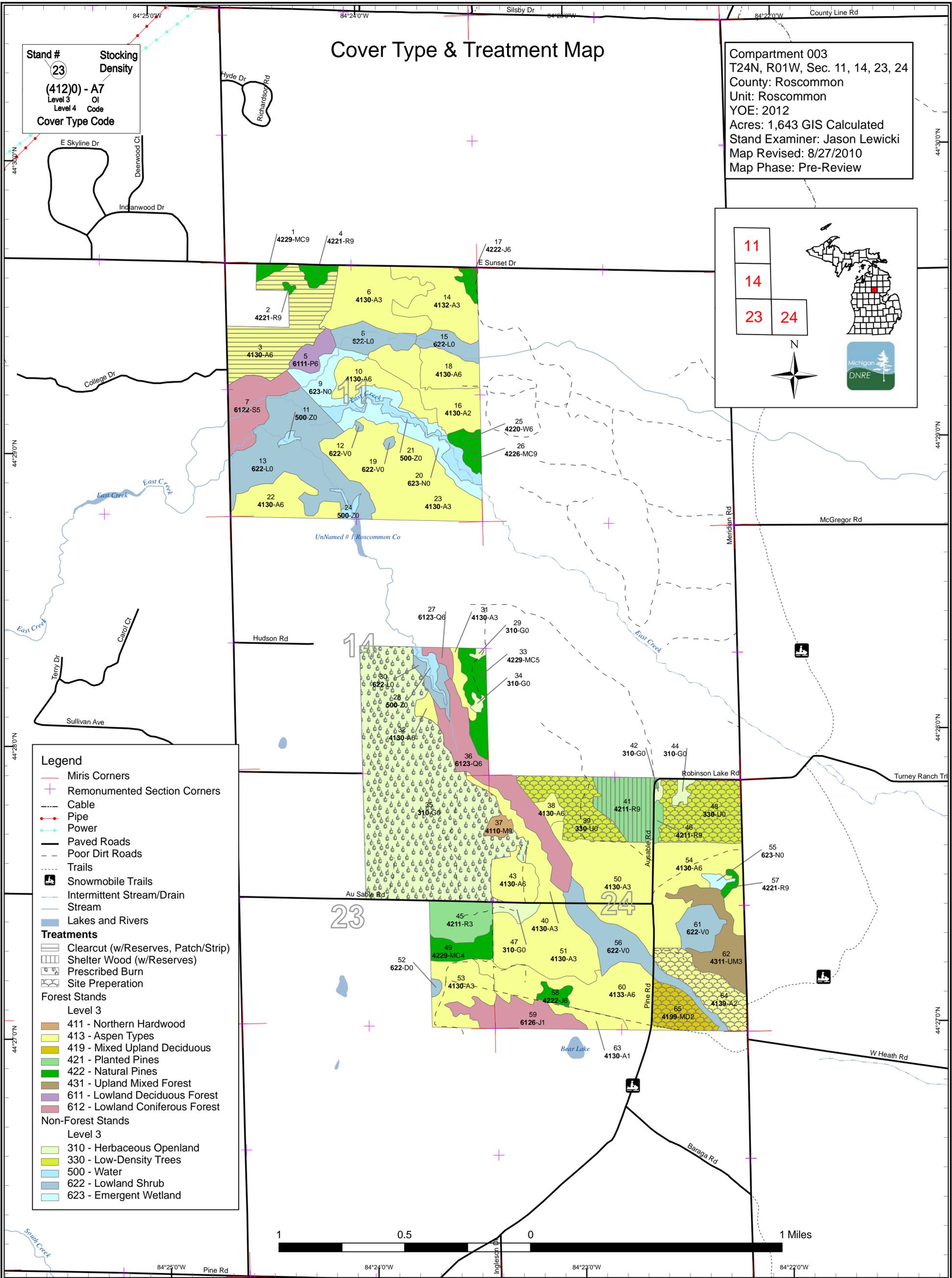
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

Cover Type & Treatment Map

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



Compartment 003
 T24N, R01W, Sec. 11, 14, 23, 24
 County: Roscommon
 Unit: Roscommon
 YOE: 2012
 Acres: 1,643 GIS Calculated
 Stand Examiner: Jason Lewicki
 Map Revised: 8/27/2010
 Map Phase: Pre-Review



Legend

- Miris Corners
- Remonumented Section Corners
- Cable
- Pipe
- Power
- Paved Roads
- Poor Dirt Roads
- Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Prescribed Burn
- Site Preparation

Forest Stands

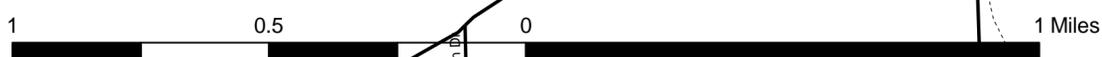
Level 3

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

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



84°25'0"W Pine Rd 84°24'0"W 84°23'0"W 84°22'0"W

Stand Boundary Map

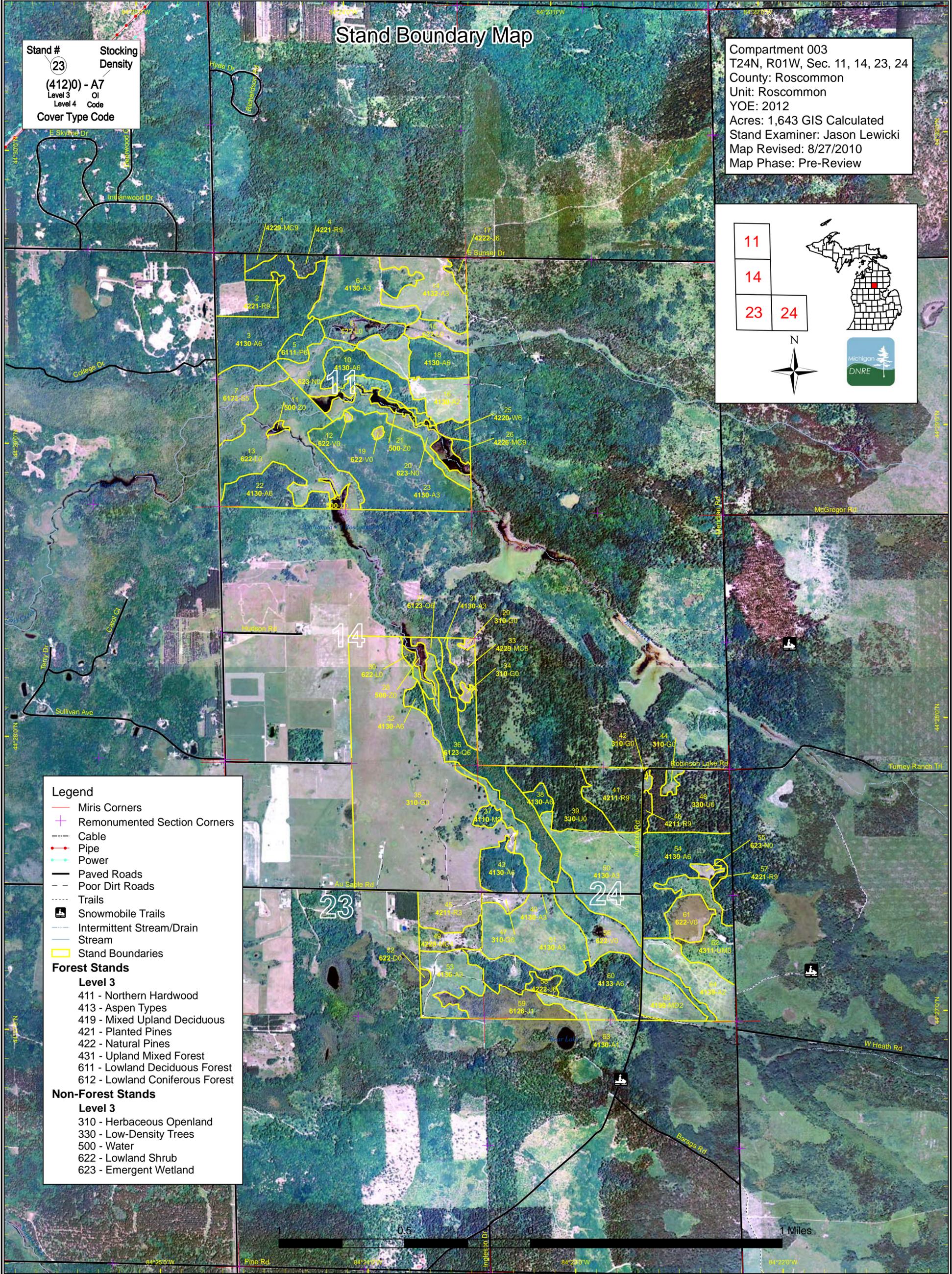
Stand #
23
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Compartment 003
 T24N, R01W, Sec. 11, 14, 23, 24
 County: Roscommon
 Unit: Roscommon
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 Acres: 1,643 GIS Calculated
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11
 14
 23 24



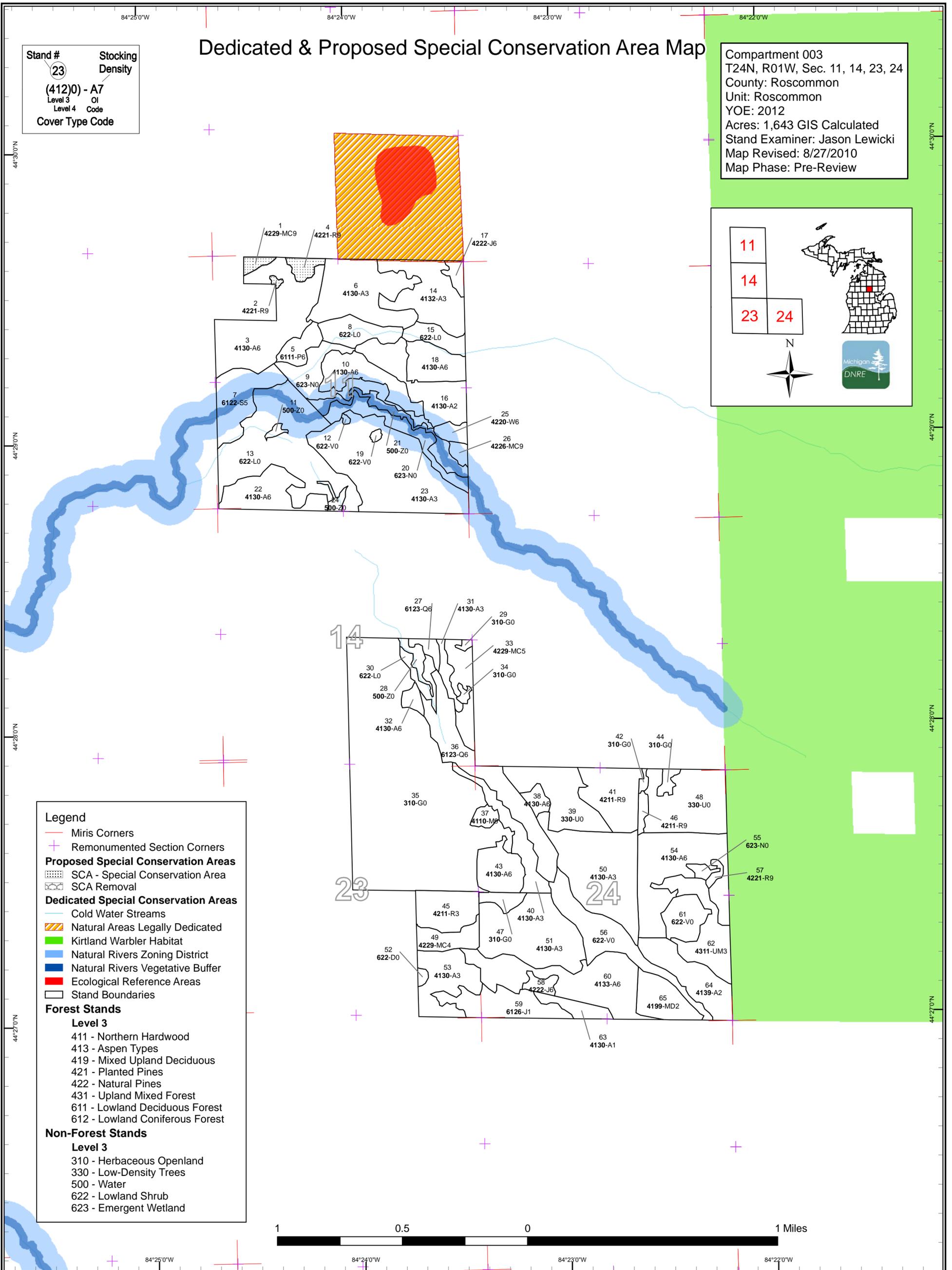
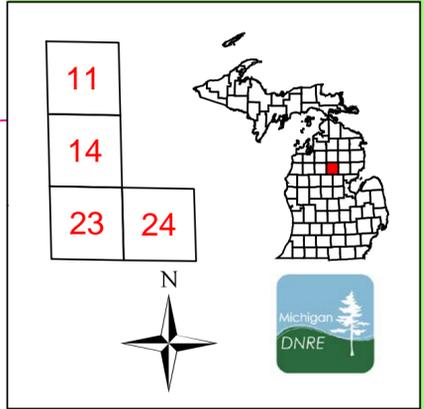
- Legend**
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 - Pipe
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 - Intermittent Stream/Drain
 - Stream
 - Stand Boundaries
- Forest Stands**
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Dedicated & Proposed Special Conservation Area Map

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

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 T24N, R01W, Sec. 11, 14, 23, 24
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 Unit: Roscommon
 YOY: 2012
 Acres: 1,643 GIS Calculated
 Stand Examiner: Jason Lewicki
 Map Revised: 8/27/2010
 Map Phase: Pre-Review



Legend

- Miris Corners
- ✦ Remonumented Section Corners
- Proposed Special Conservation Areas**
- ▨ SCA - Special Conservation Area
- ▩ SCA Removal
- Dedicated Special Conservation Areas**
- Cold Water Streams
- ▨ Natural Areas Legally Dedicated
- ▨ Kirtland Warbler Habitat
- ▨ Natural Rivers Zoning District
- ▨ Natural Rivers Vegetative Buffer
- ▨ Ecological Reference Areas
- ▭ Stand Boundaries
- Forest Stands**
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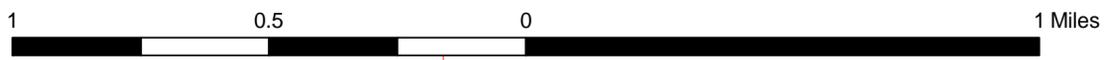


Table 1 – Total Acres by Cover Type and Age Class

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	300	145	66	125	29	63	0	4	0	0	0	0	0	0	732
Bog	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Herbaceous Openland	269	0	0	0	0	0	0	0	0	0	0	0	0	0	0	269
Jack Pine	0	0	0	0	5	0	33	0	0	0	0	0	0	0	0	38
Low-Density Trees	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	54	0	0	0	0	0	0	0	54
Lowland Shrub	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
Lowland Spruce/Fir	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	30
Marsh	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Mixed Upland Deciduous	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Natural Mixed Pines	0	0	0	0	0	18	0	0	14	4	3	0	0	0	0	39
Northern Hardwood	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Red Pine	0	0	24	0	0	0	0	0	35	2	7	0	0	0	0	68
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	31
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
White Pine	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Total	610	321	199	66	130	47	107	83	58	11	10	0	0	0	0	1643



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Roscommon Mgt. Unit
Year of Entry 2012

Compartment 003
Total Compartment Acres: 1643

Acres by Treatment Type

Commercial Harvest - 98	Site Prep - 137	Tree Planting - 0	Prescribed Burn - 255	Other - 0
Habitat Cut - 0	Opening Maintenance - 3	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	63	0	0	0	0	0	63
Red Pine	0	0	0	35	0	0	35
Total	63	0	0	35	0	0	98



Data updated before 10:00 AM

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3 71003003-Cut	63.2	4130 - Aspen	High Density Pole	50	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription Final harvest with a 2" spec. Leave a few super canopy pines and balsam fir for verticle structure and cover. Leave a 3-5 chain buffer strip along
Specs: F-97 for visuals along road and KCC.

Other
Comments:

Next
Steps:

41 71003041-Cut	31.7	42110 - Planted Red Pine	High Density Log	73	Harvest	Shelterwood	Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Remove anywhere from 1/4 to half of the basal area to release understory. Remove more in areas that seem to have been affected by bark
Specs: beetles. Favor keeping healthy large crowned red pines. Any mix of maple, oak and pine for regeneration is acceptable.

Other
Comments:

Next
Steps:

64 71003064-Prep	31.7	4139 - Aspen, Mixed Deciduous	Medium Density Saplin	7	Site Prep	Other-Specify	Planted Red Pine	Cmpt. Review Proposal
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Prescription Herbicide areas that are dominated by cherry. Avoid areas of existing aspen and oak.

Specs:

Other
Comments:

Next Trench and plant red pine.
Steps:

65 71003065-Prep	21.2	4199 - Other Mixed Upland Deciduous	Medium Density Saplin	7	Site Prep	Other-Specify	Planted Red Pine	Cmpt. Review Proposal
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Prescription Herbicide areas dominated by cherry. Avoid areas of existing aspen and oak.

Specs:

Other
Comments:

Next Trench and plant red pine
Steps:

**Total Treatment
 Acreage Proposed: 147.8**



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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
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

Data updated before 10:00 AM

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2012



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:

**Total Treatment
Acreage Proposed: 0**

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Roscommon Mgt. Unit

5 – Forested Stands

Compartment: 003

Data updated before 10:00 AM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42290 - Natural Mixed Pine	High Density Log	3.4	95	171-200	Very impressive stand of natural red and white pine. A few hemlocks mixed in. Hold for diversity.
2	42210 - Natural Red Pine	High Density Log	0.9	95	111-140	Nice natural red pine sawtimber stand. White pine in understory.
3	4130 - Aspen	High Density Pole	63.2	50	81-110	Nice stand of mature quaking aspen. Stand is showing signs of hypoxylon and heart rot(conks). Some scattered super canopy red pine. Understory is mostly red maple with some white pine and balsam fir mixed in. Final harvest for age classes diversity and grouse/woodcock habitat. Leave some super canopy pine and balsam fir for cover and verticle structure. Possible rabbittat spec. Leave a 3-5 chain strip along F-97 for buffer to road and Kirtland Community College. Stand adjoins KCC firing range. Survey may be needed. SE part of stand falls into SCA dedicated old growth.
4	42210 - Natural Red Pine	High Density Log	5.8	95	81-110	
5	6111 - Lowland Balsam Poplar	High Density Pole	10.4	50	51-80	
6	4130 - Aspen	High Density Sapling	51.3	16		
7	6122 - Black Spruce	Medium Density Pole	29.6	65		
10	4130 - Aspen	High Density Pole	25.4	26	1-50	Stand just entering poletimber size class. Stand is already showing signs of bad hypoxylon problems. Look at regenerating next entry.
14	4132 - Aspen, Jack Pine	High Density Sapling	39.1	7		Jack pine palntation weaved through and around aspen regeneration. Mostly on north end.
16	4130 - Aspen	Medium Density	35.4	7		Quaking aspen with some red maple scattered about. Some natural jack pine to the south of where the stand narrows down and the water table is higher. There is a small narrow ridge of red pine to the north along thye creek edge.
17	42220 - Natural Jack Pine	High Density Pole	4.8	50	51-80	Small stand of jack pine.
18	4130 - Aspen	High Density Pole	20.5	26	1-50	Quaking aspen stand just entering pole timber size. Already showing signs of bad hypoxylon problems. Look heavily at harvesting next entry.
22	4130 - Aspen	High Density Pole	29.3	44	51-80	Pole timber quaking aspen stand with balsam fir and red maple mixed in. Balsam fir understory. Low wet swale runs north to south through middle of stand. Somewhat difficult access from f-97. Look at harvesting next entry.

S t a n d	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 003	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012	
23	4130 - Aspen	High Density Sapling	93.5	12			Looked across east creek, saw aspen. Stand was accessed through private property to the south when harvested.
25	42200 - Natural White Pine	High Density Pole	5.6	81	81-110		White pine poletimber stand with some larger red pines mixed in. White pine understory. Stand borders East Creek and is listed as old growth (SCA).
26	42260 - Natural Pine, Mixed Deciduous	High Density Log	3.6	81	51-80		Overstory red and white pine sawtimber with a understory of red maple and aspen. A few oaks scattered about. Old beaver activity near creek. Stand borders East Creek and is an SCA, potential old growth.
27	6123 - Lowland Fir	High Density Pole	4.5	60	51-80		
31	4130 - Aspen	High Density Sapling	5.9	7			Thin strip of aspen along swamp edge.
32	4130 - Aspen	High Density Pole	4.4	73	1-50		Small stand of aspen. Small pocket of hemlock in NW corner. A few hard maple present. More balsam fir to the east along the swamp edge.
33	42290 - Natural Mixed Pine	Medium Density Pole	18.1	47	51-80		
36	6123 - Lowland Fir	High Density Pole	49.2	60	81-110		Balsam fir swale mixed with various hardwoods scattered throughout. A few hemlock present.
37	4110 - Sugar Maple Association	High Density Log	4.6	73	81-110		Nice little hardwood stand dominated by hard maple. Little understory.
38	4130 - Aspen	High Density Pole	5.3	34	51-80		Mixed aspen stand with some balsam fir.
40	4130 - Aspen	High Density Sapling	20.5	7			Thick aspen regeneration with some cherry mixed in.
41	42110 - Planted Red Pine	High Density Log	31.7	73	141-170		Red pine plantation that was thinned at some previous entry(130 BA avg). Some pockets and scattered individuals showing bark beetle mortality. Red maple regen in south end. More oak and white pine in understory in north end. Remove about 1/3-1/2 overstory to release understory. Manage for oak, white pine and maple.
43	4130 - Aspen	High Density Pole	19.8	28	51-80		Pole timber quaking aspen stand. Hypoxylon present. Consider harvesting next entry.
45	42110 - Planted Red Pine	High Density Sapling	23.7	16			Red pine plantation, some natural jack pine and cherry mixed in.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	42110 - Planted Red Pine	High Density Log	3.5	73	111-140	Narrow buffer strip along road. Oak and red pine in understory, especially in north 3/4 of stand. South end has more red maple understory. Thin down to 50-70 BA to allow understory to respond to more light. Manage for oak, pine and maple understory.
49	42290 - Natural Mixed Pine	Low Density Pole	13.7	75	1-50	
50	4130 - Aspen	High Density Sapling	67.6	7		Thick aspen stand with some oak and cherry mixed in.
51	4130 - Aspen	High Density Sapling	60.0	7		Thick stand of quaking aspen mixed with a little oak and cherry.
53	4130 - Aspen	High Density Sapling	30.6	7		Thick stand of quaking aspen mixed with oak and cherry.
54	4130 - Aspen	High Density Pole	60.0	34	51-80	Quaking aspen stand mixed with red maple. Some red and white pine supercanopy trees found scattered and in groups. Some hypoxylon, look at harvesting next entry.
57	42210 - Natural Red Pine	High Density Log	2.4	84	141-170	Small natural red pine stand with som white pine mixed in.
58	42220 - Natural Jack Pine	High Density Pole	5.1	33	51-80	
59	6126 - Lowland Jack Pine	Low Density Sapling	28.4	55		Bog jack pine.
60	4133 - Aspen, Mixed Pine	High Density Pole	59.5	33	51-80	Quaking aspen stand with scattered pine. Heavy cherry understory. Strip of natural red and white pine along NE swamp edge.
62	4311 - Pine, Aspen Mix	High Density Sapling	31.0	14		High water table > Mix of natural jack pine, red maple and oak. Some cherry
63	4130 - Aspen	Low Density Sapling	9.2	7		Mix of aspen oak and cherry. Some jack pine on west end.
64	4139 - Aspen, Mixed Deciduous	Medium Density	31.7	7		Quaking aspen stand mixed with cherry, oak and red maple. Heavier aspen component to the west. Areas that were heavier to oak before harvest failed and regenerated to pin cherry. More maple and pin cherry to the east. High water table on the NW end.
65	4199 - Other Mixed Upland Deciduous	Medium Density	21.2	7		Quaking aspen with large areas of pin cherry mixed with some oak. Areas that were oak before harvest failed to regenerate probably due to age and browsing and are now predominatly cherry brush.



Stand	Cover Type	Acres	Gen Cmts:
8	622 - Lowland Shrub	17.6	
9	623 - Emergent Wetland	26.7	East creek runs through stand
11	50 - Water	1.6	Beaver pond in East Creek.
12	6225 - Bog	0.7	
13	622 - Lowland Shrub	86.8	Branch of East Creek runs through this stand
15	622 - Lowland Shrub	11.4	East Creek runs through this stand.
19	6225 - Bog	1.1	
20	623 - Emergent Wetland	20.0	
21	50 - Water	16.8	
24	50 - Water	3.1	
28	50 - Water	5.1	
29	3102 - Grass	1.2	
30	622 - Lowland Shrub	7.9	
34	3102 - Grass	1.8	
35	3102 - Grass	254.8	RX burn FTP# W-71-654 & W-71-655
39	3302 - Low Density Conifer Trees	36.1	Red pine plantations from RPP.
42	3102 - Grass	1.5	
44	3102 - Grass	3.6	



Stand	Cover Type	Acres	Gen Cmts:
47	3102 - Grass	6.1	
48	3302 - Low Density Conifer Trees	47.6	Red pine plantation from RPP
52	6224 - Treed Bog	1.6	
55	6233 - Wet Meadow	2.9	"Haymarsh"
56	6225 - Bog	37.4	Drainage into east creek.
61	6225 - Bog	16.5	

**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

Stand	SCA Type	SCA Name	Acres	Comments
1	Unique Site - SCA	71003001	3.4	Potential SCA for Roscommon Red Pines BSA.
2	Unique Site - SCA	71003002	0.9	SCA for part of Roscommon Red Pines BSA.
4	Unique Site - SCA	71003004	5.8	Potential SCA for Roscommon Red Pines BSA.



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
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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.
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.
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.
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.