



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 32

Entry Year 2015

Acreage: 969

County Roscommon

Management Area: Upper Muskegon

Revision Date: 08/06/2013

Stand Examiner: Ben Wiese

Legal Description:

T24 R03W Sec. 22, 23 and 24

Identified Planning Goals:

Provide for sustainable ecosystem based management including forest products, wildlife and recreation. Maintain healthy and diverse forested stands. Goals for this year of entry are to regenerate nine acres of white spruce, final harvest 15 acres of jack pine and thin 48 acres of red pine.

Soil and topography:

Part of the Grayling outwash plain, most of the compartment is relatively flat with minor changes in elevation. There are some lowland stands in the central part of the compartment. The soils consist of a variety of sand types which include Graycalm-Klacking, Chinwhisker, Otisco, Finch, Crosswell and Au Gres. The muck soils are Kinross and Deford.

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

The compartment is broken into four sections all of which border private land at some point. The south part of the compartment adjoins state land. Hunting pressure is high because of the proximity to Higgins Lake and multiple subdivisions.

Unique Natural Features:

There is suitable habitat for rough fescue, *Festuca scabrella*.

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:

None noted.

Watershed and Fisheries Considerations:

No comments or aquatic concerns.

Wildlife Habitat Considerations:

None noted

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of 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 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. The nearest gravel pit is located one mile to the northeast and potential appears to be limited. St. Helen Field lies six miles to the east. 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. The entire Compartment is leased for oil and gas development.

Vehicle Access:

Access is good throughout the compartment, there are several county roads and numerous forest roads.

Survey Needs:

There are no survey needs at this time.

Recreational Facilities and Opportunities:

Opportunities exist for hunting, hiking and foraging.

Fire Protection:

None noted.

Additional Compartment Information:

The following reports from the Inventory are attached:

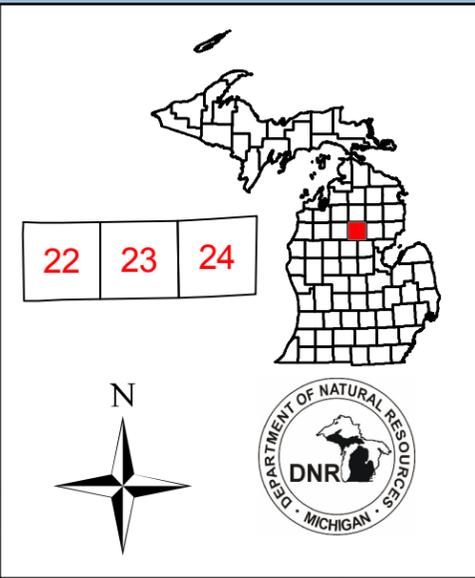
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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**

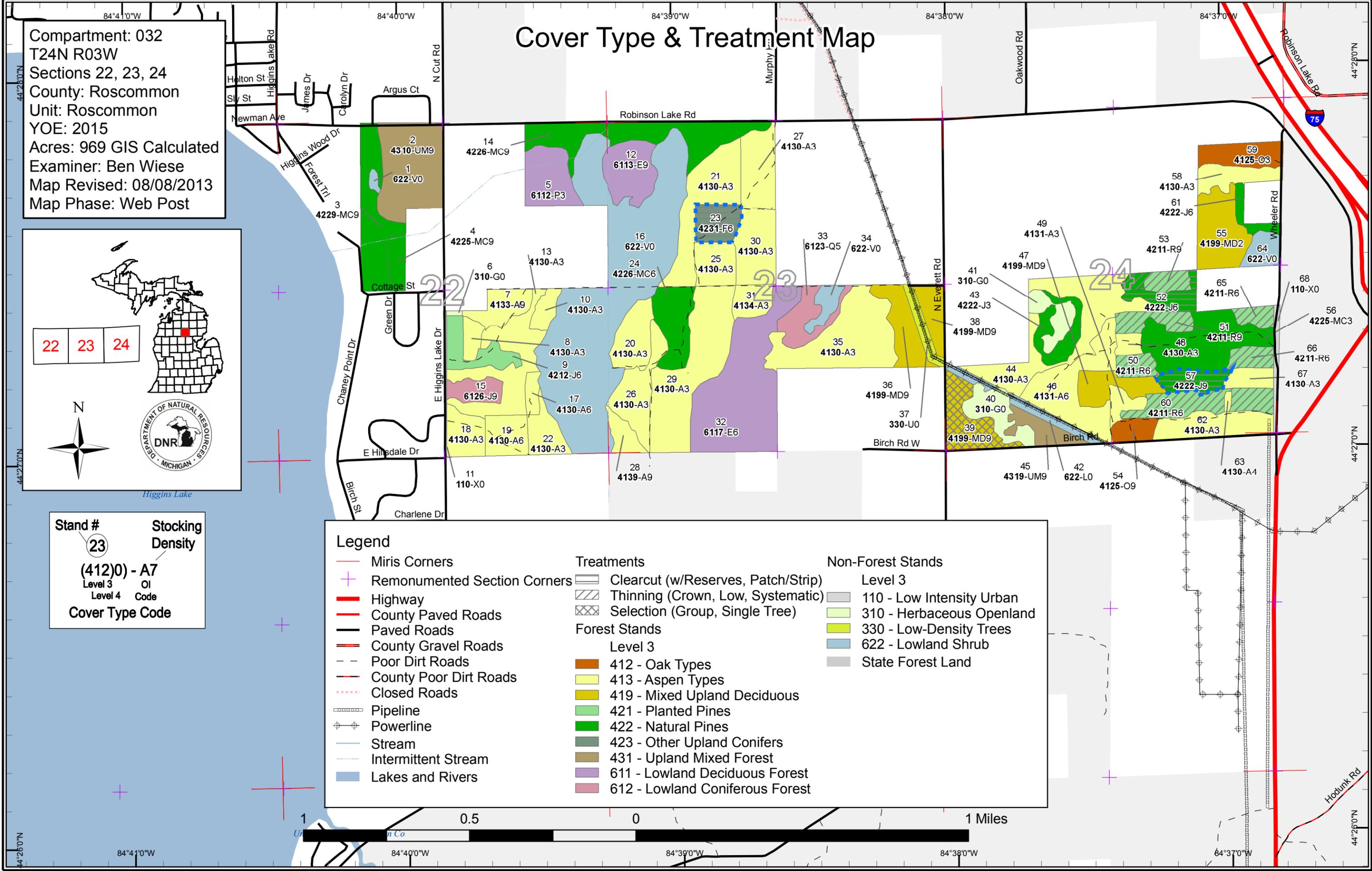
Cover Type & Treatment Map

Compartment: 032
 T24N R03W
 Sections 22, 23, 24
 County: Roscommon
 Unit: Roscommon
 YOE: 2015
 Acres: 969 GIS Calculated
 Examiner: Ben Wiese
 Map Revised: 08/08/2013
 Map Phase: Web Post



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

Legend		Treatments	Non-Forest Stands
—+—	Miris Corners	▭	Level 3
+	Remonumented Section Corners	▨	110 - Low Intensity Urban
—	Highway	▧	310 - Herbaceous Openland
—	County Paved Roads	▩	330 - Low-Density Trees
—	Paved Roads	▪	622 - Lowland Shrub
—	County Gravel Roads	▫	State Forest Land
—	Poor Dirt Roads		
—	County Poor Dirt Roads		
—	Closed Roads		
▭	Pipeline		
⊕	Powerline		
—	Stream		
—	Intermittent Stream		
▭	Lakes and Rivers		
		Forest Stands	
		Level 3	
		412 - Oak Types	
		413 - Aspen Types	
		419 - Mixed Upland Deciduous	
		421 - Planted Pines	
		422 - Natural Pines	
		423 - Other Upland Conifers	
		431 - Upland Mixed Forest	
		611 - Lowland Deciduous Forest	
		612 - Lowland Coniferous Forest	



Stand Boundary Map

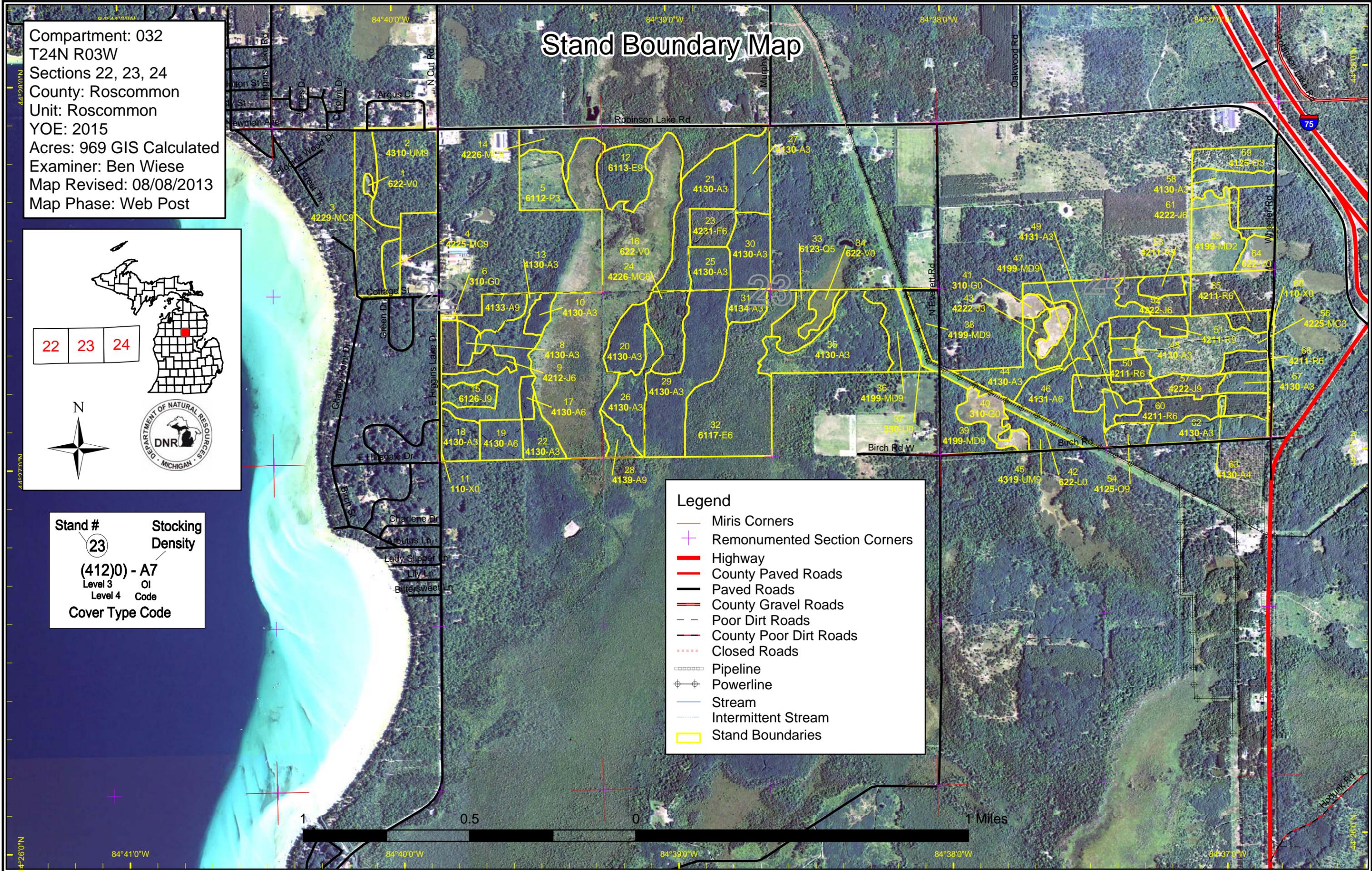
Compartment: 032
 T24N R03W
 Sections 22, 23, 24
 County: Roscommon
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22 23 24

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

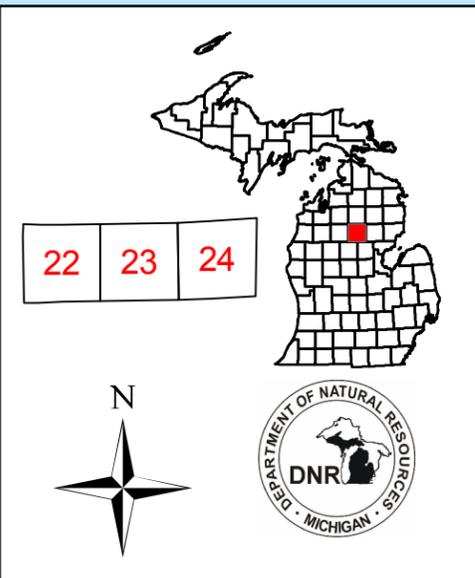
Legend

- Miris Corners
- Remonumented Section Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Pipeline
- Powerline
- Stream
- Intermittent Stream
- Stand Boundaries

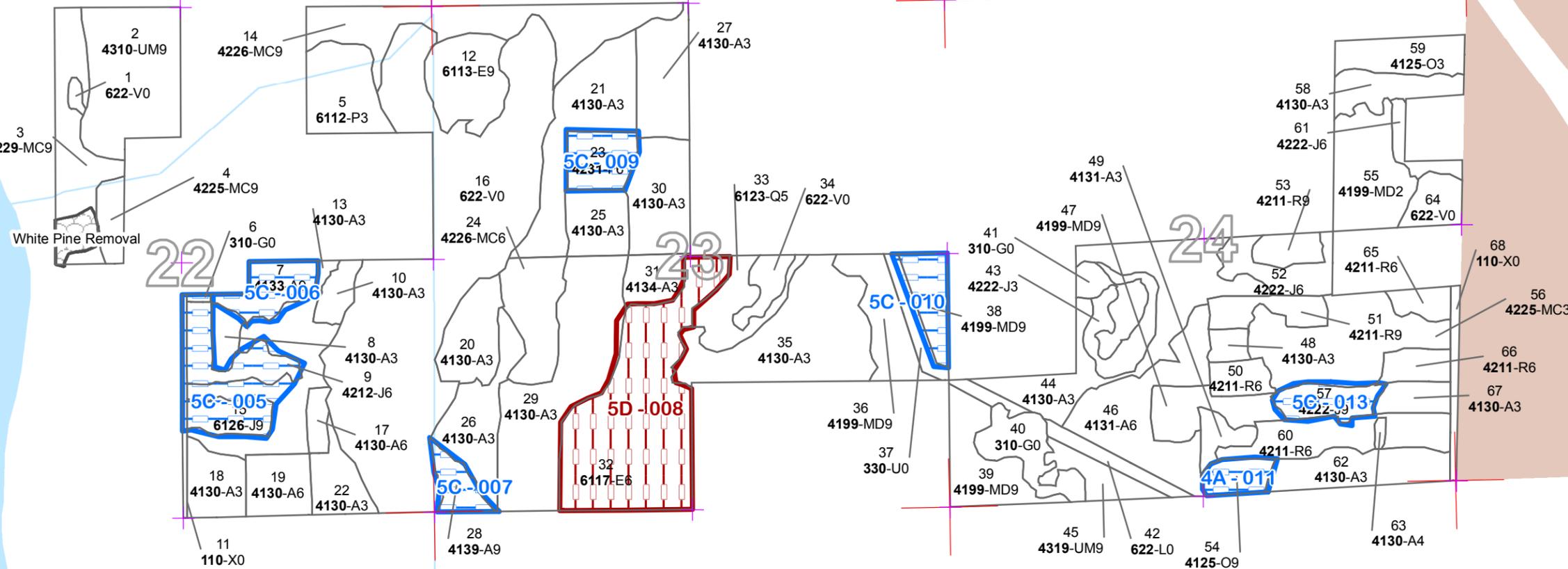


Special Conservation Areas & Site Conditions Map

Compartment: 032
 T24N R03W
 Sections 22, 23, 24
 County: Roscommon
 Unit: Roscommon
 YOE: 2015
 Acres: 969 GIS Calculated
 Examiner: Ben Wiese
 Map Revised: 08/08/2013
 Map Phase: Web Post

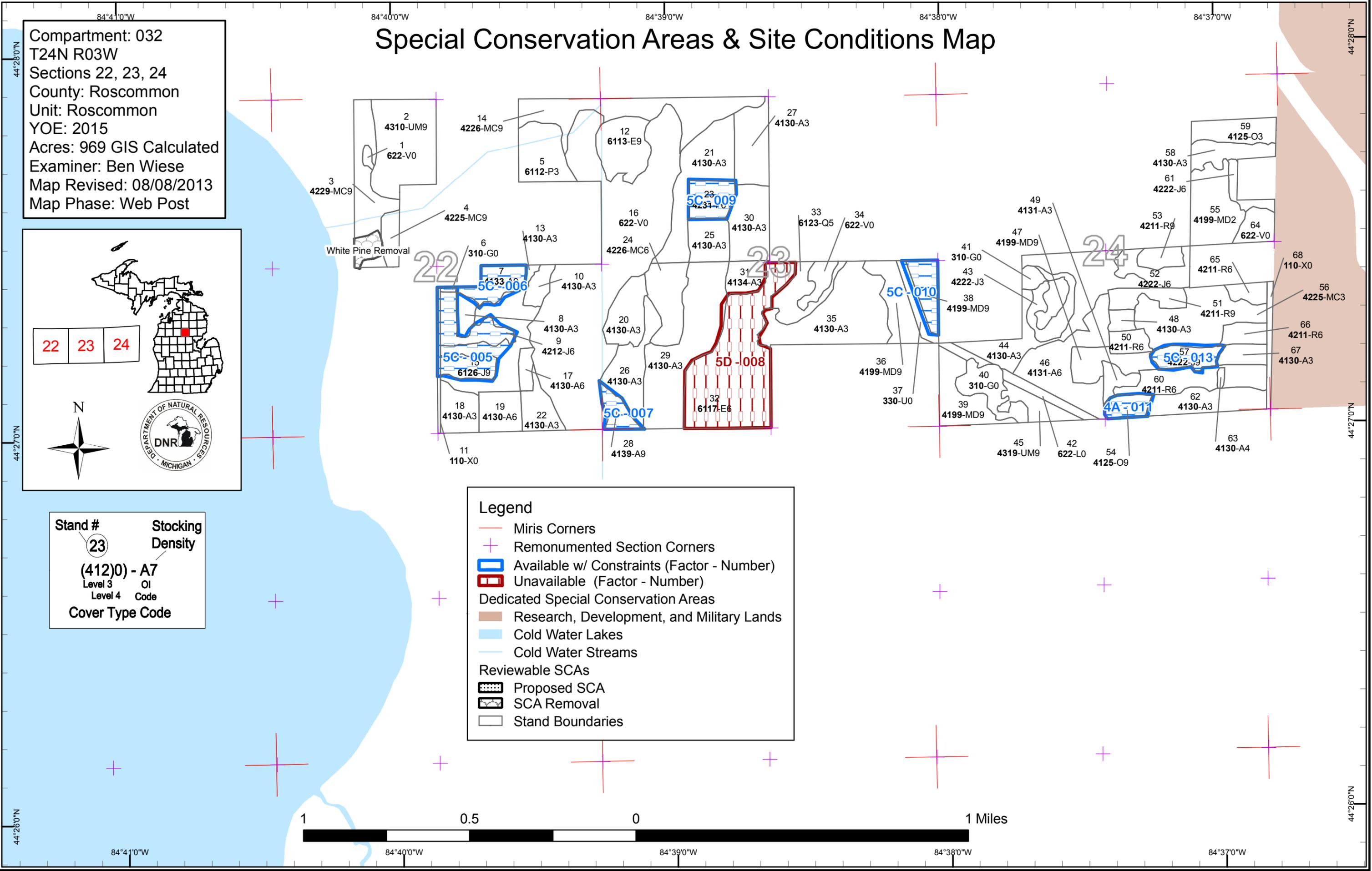


Stand #	Stocking Density
(23)	(412)0 - A7
	Level 3 OI
	Level 4 Code
	Cover Type Code



Legend

- Miris Corners
- Remonumented Section Corners
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Dedicated Special Conservation Areas**
- Research, Development, and Military Lands
- Cold Water Lakes
- Cold Water Streams
- Reviewable SCAs**
- Proposed SCA
- SCA Removal
- 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	0	202	119	27	0	0	0	0	0	15	0	0	0	0	363
Bog	136	0	0	0	0	0	0	0	0	0	0	0	0	0	136
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Jack Pine	0	9	0	0	0	10	21	7	0	0	0	0	0	0	48
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	11	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Deciduous	0	0	0	0	0	0	0	16	0	0	0	56	0	0	72
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	20	0	0	0	11	0	0	0	15	0	0	21	0	0	68
Natural Mixed Pines	0	30	0	0	0	5	0	15	54	0	0	0	0	0	104
Oak	0	11	0	0	0	0	0	0	0	0	0	6	0	0	17
Red Pine	0	0	0	0	45	0	0	0	0	0	0	0	0	0	45
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	40	0	0	0	0	40
Upland Spruce/Fir	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	210	253	130	27	57	16	21	48	69	55	0	83	0	0	969



Report 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2015

Compartment 032
Total Compartment Acres: 969

Acres by Treatment Type

Commercial Harvest - 87	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	0	15	0	0	0	0	0	15
Natural Pines	16	0	0	0	0	0	0	16
Other Upland Conifers	9	0	0	0	0	0	0	9
Planted Pines	0	0	0	0	47	0	0	47
Total	25	15	0	0	47	0	0	87



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	71032039-Cut	15.1	4199 - Other Mixed Upland Deciduous	High Density Log	87	111-140	Harvest	Single Tree Selection	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Selection harvest. Release the red maple and white pine, encourage stump sprouting of oak and regenerate aspen in small pockets. Remove <u>Specs:</u> the aspen and thin the oak, maple and pine where needed, leave a residual basal area of 50-70. Leave the best formed pole and log size red pine, red maple and oak for diversity and seed. <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
50	71032050-Cut	5.2	42110 - Planted Red Pine	High Density Pole	48	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin from below to 90-100 BA <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
51	71032051-Cut	7.8	42110 - Planted Red Pine	High Density Log	48	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin to 80-90 BA, remove suppressed trees first, some areas may be less than 80 BA. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
52	71032052-Cut	7.7	42220 - Natural Jack Pine	High Density Pole	66	51-80	Harvest	Clearcut with Reserves	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to a 2" diameter, leave the jack pine tops. Leave red pine and white pine. <u>Specs:</u> <u>Other</u> Accept whatever regen comes back naturally. There will likely be open non-forested areas and small clumps of aspen. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
53	71032053-Cut	7.0	42110 - Planted Red Pine	High Density Log	48	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Thin from below to 80-90 BA leave the oak and aspen.

Specs:

Other The treatment extends into stand 52 because an error was made when delineating the boundary. The treatment area is the actual boundary of stand 53. The west part of the treatment area is more "natural." Rows are not present.

Next
Steps:

Proposed
Start Date: 10/01/2014

60	71032060-Cut	17.6	42110 - Planted Red Pine	High Density Pole	48	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Thin from below to 90-100 BA, leave the oak. Landing in the central part of the stand.

Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2014

65	71032065-Cut	4.3	42110 - Planted Red Pine	High Density Pole	48	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Thin from below to 90-100 BA.

Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2014

66	71032066-Cut	5.4	42110 - Planted Red Pine	High Density Pole	48	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Thin from below to 80-90 BA.

Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 70.0**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23 71032023-Cut	9.5	42310 - Planted Spruce	High Density Pole	71	171-200	Harvest	Clearcut	42310 - Planted Spruce	Cmpt. Review Proposal

Prescription Clearcut, leave one large slash pile per acre for wildlife habitat. Chip the rest of the slash to facilitate planting.

Specs:

Other

Comment:

Next Plant white spruce.

Steps:

Proposed

Start Date: 10/01/2014

Limiting Factor 5C: Delay treatment for age/size class diversity or exceptional site quality

57 71032057-Cut	7.9	42220 - Natural Jack Pine	High Density Log	66	81-110	Harvest	Clearcut	412 - Oak	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Leave large crowned pin oak and red pine at less than 5 square feet of basal area. Leave jack pine tops.

Specs:

Other

Comment: Expect damage to the oak understory, it should resprout.

Next

Steps:

Proposed

Start Date: 10/01/2014

Limiting Factor 5C: Delay treatment for age/size class diversity or exceptional site quality

**Total Treatment
Acreage Proposed: 17.4**

Report 5 – Site Conditions

Roscommon Mgt. Unit
Ben Wiese : Examiner

Compartment 032
Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5D	5C	4A
	Available	Not Available					
363	361	2	Aspen	337	2	23	0
48	48		Jack Pine	15		33	
16	16		Lowland Aspen/Balsam Poplar	16			
11	11	0	Lowland Conifers	11	0		
72	16	55	Lowland Deciduous	16	55		
68	68		Mixed Upland Deciduous	60		9	
104	104		Natural Mixed Pines	104		1	
17	17		Oak	11			5
45	45		Red Pine	44		1	0
40	40		Upland Mixed Forest	40			
9	9		Upland Spruce/Fir			9	
794	736	57	Total Forested Acres	654	57	76	6
	93%	7%	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
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26				
Comments:							
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10				
Comments:							

Report 5 – Site Conditions

Roscommon Mgt. Unit
Ben Wiese : Examiner

Compartment 032
Year of Entry 2015

007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6
Comments:			
008	Not Available	5D: Unproductive Forest Land	57
Comments:			
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10
Comments:			
010	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10
Comments:			
011	Available	4A: No merchantable products (see product standards)	6
Comments:			
013	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9
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
White Pine Removal	Potential Old Growth		SCA Removal	4.1
Comments				



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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.
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.

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Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 032
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4310 - Pine, Oak Mix	High Density Log	32.6	93	51-80	Mixed upland stand, mostly pine and oak. The canopy is relatively open and the understory is in various stages of development, but growing well. The stand is healthy, looks like it gets a lot of recreational use.
3	42290 - Natural Mixed Pine	High Density Log	23.0	89	81-110	The stand appears to be natural pine, I was unable to find any planting records. Parts of the stand are low with leatherleaf, there is a ditch running east and west. The red pine is mostly in the central and north parts of the stand, the white pine is scattered throughout. Aspen is present in trace amounts.
4	42250 - Pine, Oak	High Density Log	5.3	50	81-110	Upland white pine stand with oak and a small amount of red maple.
5	6112 - Lowland Aspen	High Density Sapling	15.8	3		This stand was final harvested in 2010. Regenerating adequately, but there is heavy browse. Scattered super canopy oak and red maple. There is a ditch that runs roughly east and west through the stand.
7	4133 - Aspen, Mixed Pine	High Density Log	9.3	94	81-110	Mature aspen and oak stand mixed with red maple and super canopy pine. The stand borders private property on two sides. This is only stand of its kind in the compartment and it adds good diversity, the rest of the adjoining stands are young aspen.
8	4130 - Aspen	High Density Sapling	4.0	27		Aspen stand that was regenerated in 1986.
9	42120 - Planted Jack Pine	High Density Pole	10.4	58	141-170	Pole size jack pine stand with red maple understory.
10	4130 - Aspen	High Density Sapling	4.6	27		Aspen stand was regenerated in 1987.
12	6113 - Lowland Maple	High Density Log	16.3	75	81-110	Lowland stand, mostly red maple and aspen. The red maple has some nice sawlogs.
13	4130 - Aspen	High Density Sapling	26.1	17		Quaking aspen stand that was regenerated in 1996 or 1997. North part of stand may have been regenerated in 1986.
14	42260 - Natural Pine, Mixed Deciduous	High Density Log	31.0	80		Lowland pine site, jack pine and red pine mixed with red maple aspen and oak. The red pine is mostly to the west and the jack pine is to the east.
15	6126 - Lowland Jack Pine	High Density Log	7.0	79	51-80	Lowland jack pine with aspen, maple and white pine.
17	4130 - Aspen	High Density Pole	3.3	27		Aspen stand that was regenerated in 1987?
18	4130 - Aspen	High Density Sapling	9.7	17		Aspen mixed with oak, red maple and some conifer it was harvested in '96 or '97 the cutting specs included all aspen with at least one merchantable stick, all maple, and all orange marked oak.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4130 - Aspen	High Density Pole	9.9	27	111-140	Aspen and red maple stand that was regenerated in 1986.
20	4130 - Aspen	High Density Sapling	12.8	27		Seasonally wet aspen stand that was regenerated in 1986. Red maple understory and scattered oak.
21	4130 - Aspen	High Density Sapling	25.8	27		Aspen stand that was regenerated in 1986. There is a very small amount of white pine present.
22	4130 - Aspen	High Density Sapling	8.7	17		Seasonally wet aspen stand that was regenerated in 1996 or 1997.
23	42310 - Planted Spruce	High Density Pole	9.5	71	171-200	White spruce plantation with a small amount of quaking aspen and black cherry, there has been no management of this stand. There is a lot of rabbit sign.
24	42260 - Natural Pine, Mixed Deciduous	High Density Pole	15.1	72	111-140	Mixed stand with mature red, jack and white pine, the jack pine is mostly in the south and west part of the stand. There is a pole class of red maple and quaking aspen.
25	4130 - Aspen	High Density Sapling	10.1	17		Aspen stand with red maple developing in the understory, it is less than 1" dbh.
26	4130 - Aspen	High Density Sapling	16.2	17		Seasonally wet aspen stand that was regenerated in 1996 or 1997. Red maple and oak from stump sprouts, red maple single stems are developing but are smaller than the stump sprouts.
27	4130 - Aspen	High Density Sapling	15.5	17		Stand was regenerated in 1996 or 1997.
28	4139 - Aspen, Mixed Deciduous	High Density Log	5.4	95	81-110	Seasonally wet aspen and red maple. The stand looks like a remnant from the regeneration harvest to the north.
29	4130 - Aspen	High Density Sapling	41.4	27		Seasonally wet aspen stand that was regenerated in 1986.
30	4130 - Aspen	High Density Sapling	17.1	27		Aspen stand that was regenerated in 1986, seasonally wet.
31	4134 - Aspen, Spruce/Fir	High Density Sapling	7.1	17		Seasonally wet aspen stand that was regenerated in 1996 or 1997.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	55.8	114	51-80	Lowland stand that is about 60% ash with EAB. At least 50% is dead and breaking apart, it is likely that 80% or more will be dead by the end of this year. The stand currently has standing water (ice). The timber is mostly pulp but there would be some low grade logs. Sample cruise plots and came up with a range of 10-20 cds/acre of standing timber. There is a poor road that needs work that comes with a ¼ mile of the stand we would need to build new road over low hummocky ground for access. If a harvest is considered it will have to be during winter so that a landing can be frozen in. The stand shares a ½ mile with private land so we will have to run blue line or back off. The understory has red maple and balsam fir so if left alone the stand will continue to regenerate.
33	6123 - Lowland Fir	Medium Density Pole	10.8	28	1-50	Treed bog that has become forested, the age and sizes are variable. There is a small amount of black spruce scattered throughout and some red maple in the north part of the stand along the trail.
35	4130 - Aspen	High Density Sapling	36.2	17		Aspen stand that was regenerated in 1996 or 1997 with some balsam fir in the south.
36	4199 - Other Mixed Upland Deciduous	High Density Log	13.1	113	81-110	The stand is mature upland, mostly red oak, red maple, big tooth aspen and a small amount of white oak. There is scattered hemlock in the north part of the stand. The red oak and aspen are high quality. The understory is white pine which is in the north and beech scattered throughout.
38	4199 - Other Mixed Upland Deciduous	High Density Log	8.4	113	111-140	Red oak stand with maple, quaking aspen and a dense white pine understory. There are small amounts of log size white oak, red pine, bigtooth aspen and white pine. The quaking aspen is declining.
39	4199 - Other Mixed Upland Deciduous	High Density Log	15.1	87	111-140	The stand is mostly red maple, with oak and aspen, there is some conifer. The quaking aspen is dying and is poor quality. The red maple is at least two aged and is developing nice poles and logs. The oak is moderate quality and is mostly in the east part of the stand.
43	42220 - Natural Jack Pine	High Density Sapling	9.5	17		Appears to be natural jack pine with some mixed deciduous that was regenerated in 1997, there are no records or evidence of planting.
44	4130 - Aspen	High Density Sapling	33.5	17		Aspen stand that was regenerated in 1997.
45	4319 - Mixed Upland Forest	High Density Log	7.8	97	51-80	Natural mixed pine with aspen, maple and oak. Mostly low quality timber except for the red pine which is mostly in the west. The stand seasonally wet especially in the west part of the stand.
46	4131 - Aspen, Oak	High Density Pole	27.2	37	81-110	Aspen stand with oak looks to have been regenerated 35-40 years ago.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4199 - Other Mixed Upland Deciduous	High Density Log	11.4	43	51-80	Oak with mixed deciduous stand that was regenerated in 1986. The south part of the stand was not cut, it's looks like what we'd currently call retention and made up up large, declining oak. Overall the stand is of poor quality.
48	4130 - Aspen	High Density Sapling	3.1	17		Aspen stand that was regenerated in 1997.
49	4131 - Aspen, Oak	High Density Sapling	4.5	17		Aspen stand that was regenerated in 1997. Oak is from sprouts and individual stems.
50	42110 - Planted Red Pine	High Density Pole	5.2	48	141-170	Red pine stand that was row thinned on a good site there are large growth rings on the dominant trees, there is scattered oak and cherry in understory.
51	42110 - Planted Red Pine	High Density Log	7.8	48	141-170	Red pine stand that has been row thinned, likely in 1997, it's ready to be thinned again.
52	42220 - Natural Jack Pine	High Density Pole	9.5	66	51-80	Mature jack pine with poor quality declining quaking aspen. The density is variable with small openings and dense areas of jack pine. Red pine and white pine are beginning to seed in. This stand provides good diversity between two red pine plantations.
53	42110 - Planted Red Pine	High Density Log	5.1	48	141-170	Planted red pine with lots of coarse woody debris and a small ammount of oak. The stand has been third row thinned, there are still many suppressed tree. The quality is better to the east. The north and east part of the stand border private property.
54	4125 - Black, N. Pin Oak	High Density Log	5.5	115	1-50	Mature, poor quality, dying oak, the density is low, this stand was likely thinned in the past. The understory is developing it is well stocked with oak.
55	4199 - Other Mixed Upland Deciduous	Medium Density	20.1	3		Final harvested and trenched in 2010, handplanted to red pine in 2011. The stand is cherry, oak and aspen the oak is mostly from stump sprouts. The pine is all less than 3' tall.
56	42250 - Pine, Oak	High Density Sapling	30.1	17		The stand was regenerated in 1997. Red pine plantation with jack pine and pin oak, the red pine is having difficulty competing with the oak in some places.
57	42220 - Natural Jack Pine	High Density Log	7.9	66	81-110	Mature jack pine with a well developed oak understory. The jack pine is starting to break up consequently there is coarse woody debris and snags. There is scattered white pine.
58	4130 - Aspen	High Density Sapling	9.5	17		Aspenn stand that was regenerated in 1997, there is still osme large diameter slash. The quaking aspen is por quality with hypoxylon, the black cherry has blacknot.
59	4125 - Black, N. Pin Oak	High Density Sapling	11.3	17		Oak stand that was regenerated in 1997.
60	42110 - Planted Red Pine	High Density Pole	17.6	48	141-170	Red pine that was row harvested in 1997, Its ready to be thinned again.

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Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 032
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	42220 - Natural Jack Pine	High Density Pole	4.0	66	51-80	Jack pine that looks like it was left as a buffer strip along private property, it was part of a larger stand that was final harvested.
62	4130 - Aspen	High Density Sapling	15.4	17		Aspen stand that was regenerated in 1997. There is a pocket of mature oak in the central part of the south side of the stand.
63	4130 - Aspen	Low Density Pole	0.8	17		Low stocked mixed aspen stand. Was used as a landing for a red pine thinning.
65	42110 - Planted Red Pine	High Density Pole	4.3	48	141-170	Red pine stand that has been row thinned, it's ready to be thinned again.
66	42110 - Planted Red Pine	High Density Pole	5.4	48	111-140	Red pine stand row thinned in 1997. Small amount of oak and cherry in the understory. Ready to be thinned again.
67	4130 - Aspen	High Density Sapling	5.5	17		Aspen stand that was regenerated in 1997.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6225 - Bog	1.1	No	Unspecified	
6	3102 - Grass	0.4	N/A	Unspecified	
11	11 - Low Intensity Urban	2.5	No	Unspecified	
16	6225 - Bog	123.6	No	Unspecified	Leatherleaf, grass, scattered jack pine, quaking aspen and alder.
34	6225 - Bog	4.9	No	Unspecified	
37	3301 - Low Density Deciduous Tree	5.2	No	Unspecified	
40	3102 - Grass	11.5	No	Unspecified	Grass and leatherleaf.
41	3102 - Grass	7.6	No	Unspecified	
42	6220 - Alder/willow	7.2	No	Unspecified	
64	6225 - Bog	6.5	No	Unspecified	Leatherleaf, a few jack pine are seeding in.
68	11 - Low Intensity Urban	3.7	No	Unspecified	Forest Road