



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 15 ENTRY YEAR: 2014

Compartment Acreage: 691 County: Roscommon

Revision Date: 07-26-2012

Stand Examiner: Ben Wiese

Legal Description: T24N R03W sections 1, 12 and 13

Management Area: Upper Muskegon

Management Goals: Provide for sustainable ecosystem based management including forest products, wildlife and recreation. Maintain healthy and diverse forested stands. Convert 39 acres of jack pine and mixed upland deciduous to red pine and mixed upland deciduous. Thin 67 acres of red pine.

Soil and Topography: Surface soils include Croswell, Gerrish, Graycalm, Grayling, and Otisco sand and Tawas muck. The geomorphology includes ice contact and glacial outwash sand and gravel.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is bordered by state owned and private land.

Unique, Natural Features: Rough fescue may persist in suitable habitat.

Archeological, Historical, and Cultural Features: No known sites, low to no potential for historical sites.

Special Management Designations or Considerations: None noted

Watershed and Fisheries Considerations: None noted.

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

Mineral Resource and Development Concerns and/or Restrictions:

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

Survey Needs: None at this time

Recreational Facilities and Opportunities: Opportunities include hunting, dispersed camping, snowmobiling and ORV operating.

Fire Protection: Fire risk is mostly moderate but ranges from low to high.

Additional Compartment Information:

- **The following 5 reports from the Inventory System:**
 - ◆ **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: 015
 T24N R03W Sec. 1, 12, 13
 County: Roscommon
 Unit: Roscommon
 YOE: 2014
 Acres: 691 GIS Calculated
 Examiner: Ben Wiese
 Map Revised: 08/10/2012
 Map Phase: Pre-Review

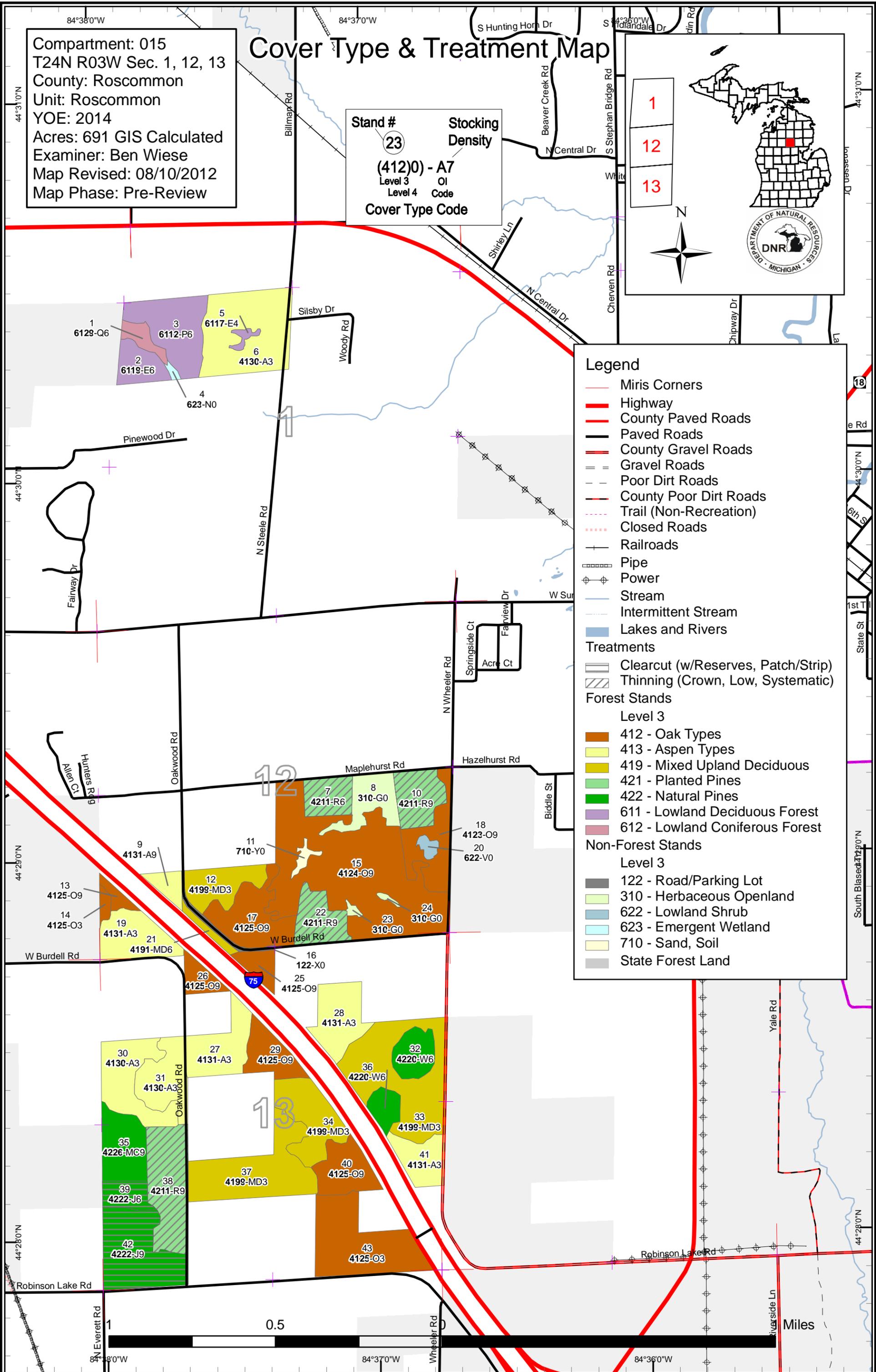
Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

1
 12
 13

N
 DEPARTMENT OF NATURAL RESOURCES
 DNR
 MICHIGAN

Legend

- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Railroads
- Pipe
- Power
- Stream
- Intermittent Stream
- Lakes and Rivers
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Forest Stands**
- Level 3**
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3**
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil
- State Forest Land



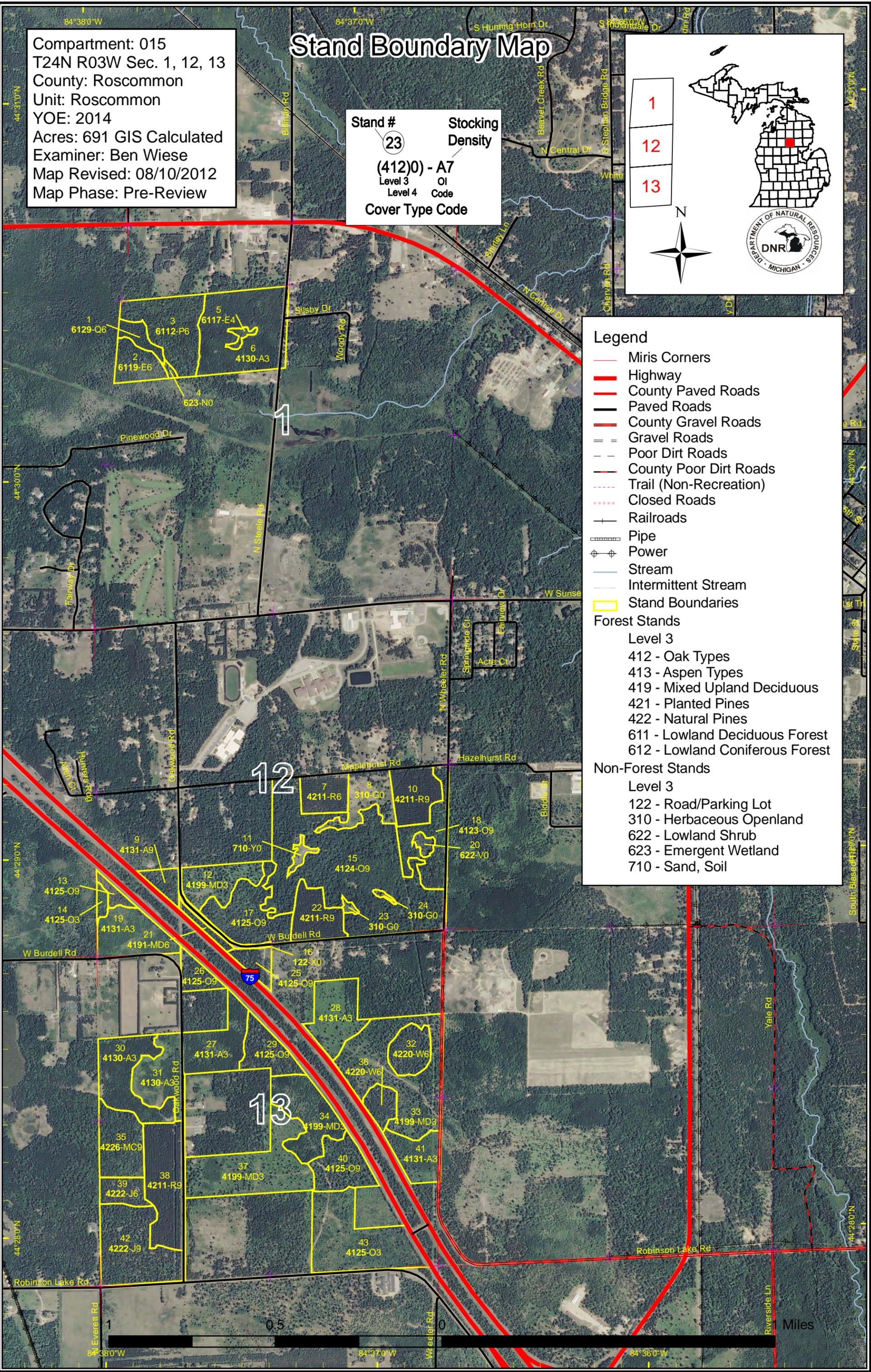
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Stand Boundary Map

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

Legend

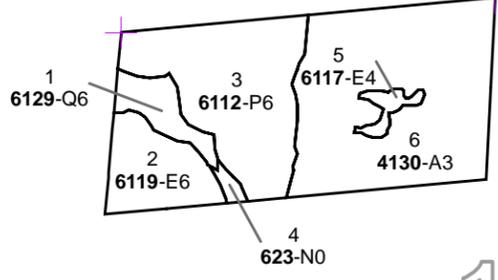
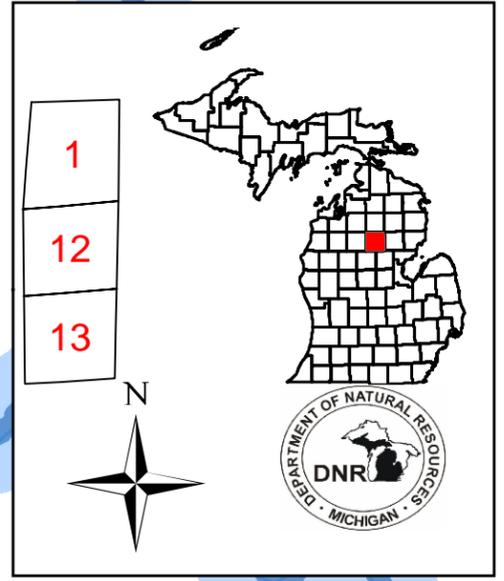
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Dedicated & Proposed Special Conservation Area Map

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
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Legend

- Miris Corners
- Stand Boundaries

Forest Stands

Level 3

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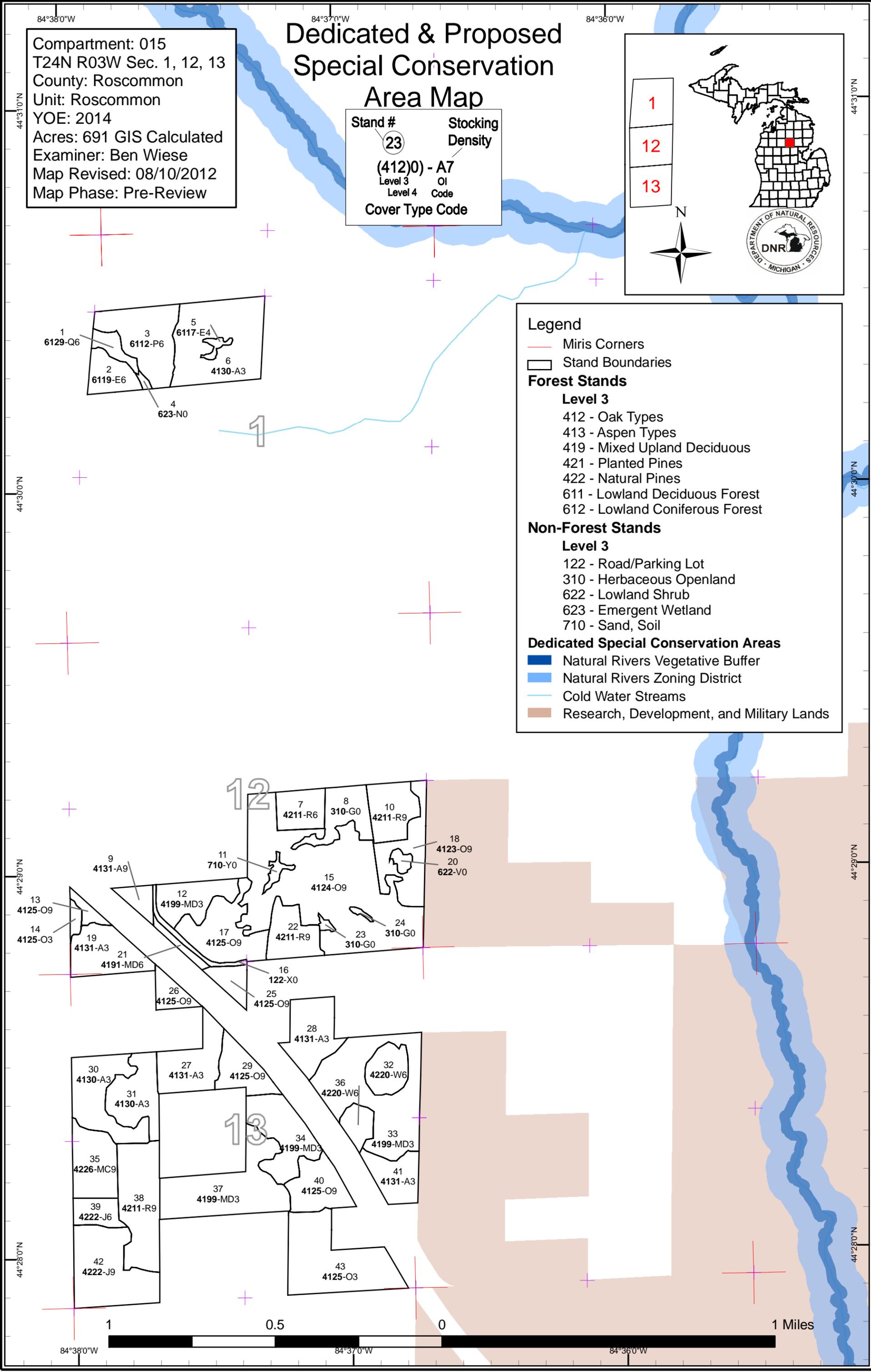
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Level 3

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Dedicated Special Conservation Areas

- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Research, Development, and Military Lands



1 0.5 0 1 Miles

Table 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 +		Unretn Age
Aspen	67	41	40	0	0	0	0	0	5	0	0	0	0	0	154
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Jack Pine	0	0	0	0	0	39	0	0	0	0	0	0	0	0	39
Lowland Aspen/Balsam Poplar	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24
Lowland Conifers	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Lowland Deciduous	0	0	2	0	0	10	0	0	0	0	0	0	0	0	11
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	58	57	0	3	0	0	0	0	0	0	0	0	0	0	118
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	17	0	0	0	17
Oak	0	39	0	0	0	0	0	0	40	3	133	0	0	0	215
Red Pine	0	0	0	0	28	39	0	0	0	0	0	0	0	0	67
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17
Total	149	137	42	3	28	133	0	0	45	3	150	0	0	0	691



Table 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2014

Compartment 015
Total Compartment Acres: 690.9

Acres by Treatment Type

Commercial Harvest - 92	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 13	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Jack Pine	39	0	0	0	0	0	39
Red Pine	0	0	0	0	67	0	67
Total	39	0	0	0	67	0	106



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	71015007-Cut	11.0	42110 - Planted Red Pine	High Density Pole	52	141-170	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin from below to promote diameter growth of residual trees. <u>Specs:</u> <u>Other</u> Stand was third row thinned in 1994. <u>Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2013										
10	71015010-Cut	14.6	42110 - Planted Red Pine	High Density Log	50	171-200	Harvest	Low Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin from below to promote diameter growth of residual trees. <u>Specs:</u> <u>Other</u> Third row harvested in 1994. <u>Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2013										
22	71015022-Cut	13.5	42110 - Planted Red Pine	High Density Log	53	141-170	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin from below to promote diameter growth of residual trees. <u>Specs:</u> <u>Other</u> Third row harvested in 1994 <u>Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2013										
38	71015038-Cut	28.2	42110 - Planted Red Pine	High Density Log	47	200+	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin from below to manage for sawlogs and power poles. <u>Specs:</u> <u>Other</u> Third row harvested in 1994 <u>Comments:</u> <u>Next Steps:</u> <u>Proposed Start Date:</u> 10/01/2013										
39	71015039-Cut	7.5	42220 - Natural Jack Pine	High Density Pole	57	51-80	Harvest	Clearcut	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to facilitate the conversion of the stand to red pine. <u>Specs:</u> <u>Other</u> The site is better suited to red pine which is evident by looking at the adjacent stand of red pine. Oak is present in the understory. <u>Comments:</u> <u>Next Steps:</u> Chip slash, trench, plant red pine. <u>Proposed Start Date:</u> 10/01/2013										

**Table 3 -- Treatments Prescribed
with No Limiting Factor**

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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42	71015042-Cut	31.0	42221 - Natural Jack Pine, Mixed Deciduous	High Density Log	59	1-50	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Clearcut to facilitate the planting of red pine. Leave some healthy mast trees for wildlife and visual. Use chipping specs to ensure site is suitable for trenching.

Other Due the presence of oak, aspen and maple the future stand will be mixed pine and deciduous.

Next Site prep as needed plant red pine.

Proposed
Start Date: 10/01/2013

**Total Treatment
Acreage Proposed: 105.8**

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

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Error

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



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

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**

Stand	Roscommon Mgt. Unit			5 – Forested Stands		Compartment: 015	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
1	6129 - Mixed Coniferous Lowland Forest	High Density Pole	4.7	54			
2	6119 - Mixed Lowland Deciduous Forest	High Density Pole	9.8	54			
3	6112 - Lowland Aspen	High Density Pole	24.5	54	81-110		Stand is relatively low with areas that are seasonally flooded. West side transitions to lower ground with black ash. Most parts of the stand have a full balsam fir understory. The stand is mostly aspen that appears to be 40-50 years old.
5	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	1.6	24			Lowland with leatherleaf and tag alder, borderline non-forested.
6	4130 - Aspen	High Density Sapling	40.3	24			Stand was clearcut in 1988
7	42110 - Planted Red Pine	High Density Pole	11.0	52	141-170		Third row harvested in 1994. Five+ stick red pine.
9	4131 - Aspen, Oak	High Density Log	5.0	82			
10	42110 - Planted Red Pine	High Density Log	14.6	50	171-200		Third row harvested in 1994. Seven+ stick red pine.
12	4199 - Other Mixed Upland Deciduous	High Density Sapling	14.7	8			
13	4125 - Black, N. Pin Oak	High Density Log	3.0	92	51-80		Poor quality oak stand. Was left out of previous harvest to leave a buffer along I-75.
14	4125 - Black, N. Pin Oak	High Density Sapling	2.0	17			Stand appears to have been regenerated ~20 years ago. Oak is mostly from stump sprouts, most of the black cherry is overtopped.
15	4124 - Red with White Oak	High Density Log	92.4	102	81-110		Stand was harvested in 1995 by removing all aspen and red maple with at least one merchantable pulp stick. Healthy mixed oak stand. Basal area is variable this corresponds to the density of the understory, which in some places is full.
17	4125 - Black, N. Pin Oak	High Density Log	22.7	102	51-80		This oak stand is mostly poor quality hybrid black/red oak with a significant white oak component of decent quality. The stand is somewhat unique because there is a developing understory of white oak, probably in part due to the relatively low basal area. There are scattered single stem red maple poles and white pine poles and logs.
18	4123 - Red Oak	High Density Log	17.9	106	111-140		Stand is healthy upland red and white oak decent sawlogs. Looks like the red maple was removed in a previous harvest. White pine in the understory.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4131 - Aspen, Oak	High Density Sapling	18.4	7		The stand is mixed aspen and oak that was regenerated about 7 years ago.
21	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	2.7	36		Small stand bordering I75 and Oakwood Rd.
22	42110 - Planted Red Pine	High Density Log	13.5	53	141-170	Third row harvested in 1994. 5-7 stick red pine.
25	4125 - Black, N. Pin Oak	High Density Log	6.2	82	81-110	Small stand that borders I75 and Oakwood Rd. Small jack pine stand in the southeast corner.
26	4125 - Black, N. Pin Oak	High Density Log	6.2	84		Stand is located along I-75. Oak is mostly poor quality, the aspen is senescing. Lots of coarse woody debris.
27	4131 - Aspen, Oak	High Density Sapling	18.5	17		Final harvested in 1995. The Aspen and oak are mostly in separate, stand could be broken into smaller stands. The aspen is in the north and west part of the stand.
28	4131 - Aspen, Oak	High Density Sapling	18.5	8		Regeneration harvest in 2004 white oak and white pine were not cut. The oak regen is mostly from stump sprouts, the aspen and red maple are in scattered pockets, the black cherry is evenly distributed.
29	4125 - Black, N. Pin Oak	High Density Log	12.5	84	51-80	Poor quality oak stand with decent soil, there is some mortality and moderate amount of coarse woody debris. Kotar is PArVha/PArVVb. There are pockets of poor quality aspen. Nice mixed oak regen in the understory most of the white oak saplings are 5-10 ft tall.
30	4130 - Aspen	High Density Sapling	22.7	17		Aspen stand that was regenerated in 1995. Slash is still present but nearly decayed. The stand is on a good site PArVCo.
31	4130 - Aspen	High Density Sapling	18.0	7		Aspen stand that was regenerated ~7 years ago. the regen is dense.
32	42200 - Natural White Pine	High Density Pole	10.4	58	81-110	White pine stand with lots of cwd and mortality in the black/red oak. There are super canopy white oak and scattered trace aspen.
33	4199 - Other Mixed Upland Deciduous	High Density Sapling	43.7	8		Gypsy moth parasite released in 1993. Regeneration harvest in 2004, white oak and white pine were left and are super canopy mostly pole size. There is good oak regen lots of single stem 3-10 ft tall. Aspen clones are in scattered pockets.
34	4199 - Other Mixed Upland Deciduous	High Density Sapling	21.5	17		Stand was regenerated in 1995. Stand has regenerated well to a mixed type. The oak from stump sprouts are 5-10 ft tall and the single stem oak saplings are 3-5 ft tall.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	42260 - Natural Pine, Mixed Deciduous	High Density Log	17.5	103		The stand is mixed natural red and white pine with some aspen and maple. The basal area is variable due to the variation in species distribution. Portions of this stand were grazed prior to the mid 1950's.
36	42200 - Natural White Pine	High Density Pole	6.2	59	81-110	White pine stand developing into log size with super canopy oak.
37	4199 - Other Mixed Upland Deciduous	High Density Sapling	35.7	17		Stand was regenerated in 1995. There is super canopy white oak and white pine. Oak regen from stump sprouts and single stem. The regen is adequate.
38	42110 - Planted Red Pine	High Density Log	28.2	47	200+	Red pine plantation on a good, site the stand was third row harvested in 1994. The stand is ready for another thinning, the basal area is high and the crowns need to be opened up. The trees are growing well there is potential to manage for power poles.
39	42220 - Natural Jack Pine	High Density Pole	7.5	57	51-80	Appears to be a natural jack pine stand. Previous inventory calls year of origin 1946, A dominant jack pine was cored, the age was 57. The stand is healthy. The site is better suited to red pine which is evident by looking at the adjacent stand of red pine. Oak is present in the understory. Prior to the mid 1950's the stand was grazed.
40	4125 - Black, N. Pin Oak	High Density Log	15.4	84	1-50	Harvested in 1995 by removing all aspen and jack pine with at least one 100" pulp stick. The results of the harvest have the appearance of a light shelterwood. The stand is now two aged. Portions of the canopy are made up of saplings.
41	4131 - Aspen, Oak	High Density Sapling	12.5	8		Clearcut with reserves in 2004. Scattered super canopy white pine and white oak poles and logs.
42	42221 - Natural Jack Pine, Mixed Deciduous	High Density Log	31.0	59	1-50	Stand is jack pine and oak mixed with some aspen and red maple located on . There is an aspen pocket in the southwest corner. The oak is of poor quality and is senescing. The site is better suited to red pine than jack pine. Oak, maple and white pine are in the understory.
43	4125 - Black, N. Pin Oak	High Density Sapling	36.6	17		Harvested in 1995 the prescription was to remove all aspen and jack pine with at least one 100" pulp stick. It was essentially a regeneration harvest. There are super canopy white pine and white oak. The oak saplings are mostly from stump sprouts.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	6239 - Mixed Emergent Wetland	0.8	No	Unspecified	
8	3102 - Grass	13.6	No	Unspecified	
11	710 - Sand, Soil	2.1	No	Unspecified	The site is an old gravel/sand pit. Maple, aspen and oak are moving in.
16	122 - Road/Parking Lot	3.4	N/A	Unspecified	
20	6225 - Bog	2.0	No	Unspecified	Leatherleaf bog with lots of CWD from white pine. Super canopy white pine, trace spruce and larch.
23	3105 - Mixed Upland Herbaceous	0.9	No	Unspecified	Sumac clone, aspen moving in around the perimeter.
24	3102 - Grass	0.7	No	Unspecified	Appears to be an old gravel/sand pit. The top of the ridge was removed. Aspen and oak are moving into the disturbance.



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.

Stand	SCA Type	SCA Name	Acres	Comments



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.

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.
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.