



ROSCOMMON FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT #25 ENTRY YEAR: 2012

Compartment Acreage: 1226

County: Roscommon

Revision Date: 6-2-2010

Stand Examiner: Jason Lewicki

Legal Description: T24N R04W, sections 20 and 21.

Management Area: Upper Muskegon

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

Soil and Topography: Soils on the uplands consists of mostly Greycalm and Klacking sands. Lowland soils are Tawas-Lupton muck. The topography is generally flat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This area is primarily state Forest Land with a few private residences especially east of the compartment.

Unique, Natural Features: The north eastern edge of the Dead Stream Swamp is found within section 20. Two old narrow gauge rail roads bisect the compartment.

Archeological, Historical, and Cultural Features: None Known

Special Management Designations or Considerations: Dead Stream Swamp is a SCA.

Watershed and Fisheries Considerations: This area drains into the Dead stream river which flows into the Muskegon 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 20 and 21, T24N R4W, RoscommonCounty

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 Michigan Formation. The Michigan is quarried for gypsum in other areas of the State. Most of the nearby gravel pits are associated with upland areas. The nearest gravel pit is located two miles to the east of the compartment. Gravel potential in the compartment is thought to be limited. East Norwich Field lies one mile to the northwest. The field has produced over 15.9 million BO and 15.7 Bcf gas primarily from the Devonian Richfield Formation and is in secondary recovery operations currently. Most of the State land is currently leased and the non-leased parcels have been nominated for the May 2010 auction.

Vehicle Access: Vehicle access is very good

Survey Needs: None

Recreational Facilities and Opportunities: An ORV and snowmobile trail run through this compartment.

Fire Protection: Much of the compartment is hardwood and lowland covertypes. 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

Compartment 025
 T24N, R04W, Sec. 20, 21
 County: Roscommon
 Unit: Roscommon
 YOE: 2012
 Acres: 1,226 GIS Calculated
 Stand Examiner: Jason Hartman
 Map Revised: 8/27/2010
 Map Phase: Pre-Review

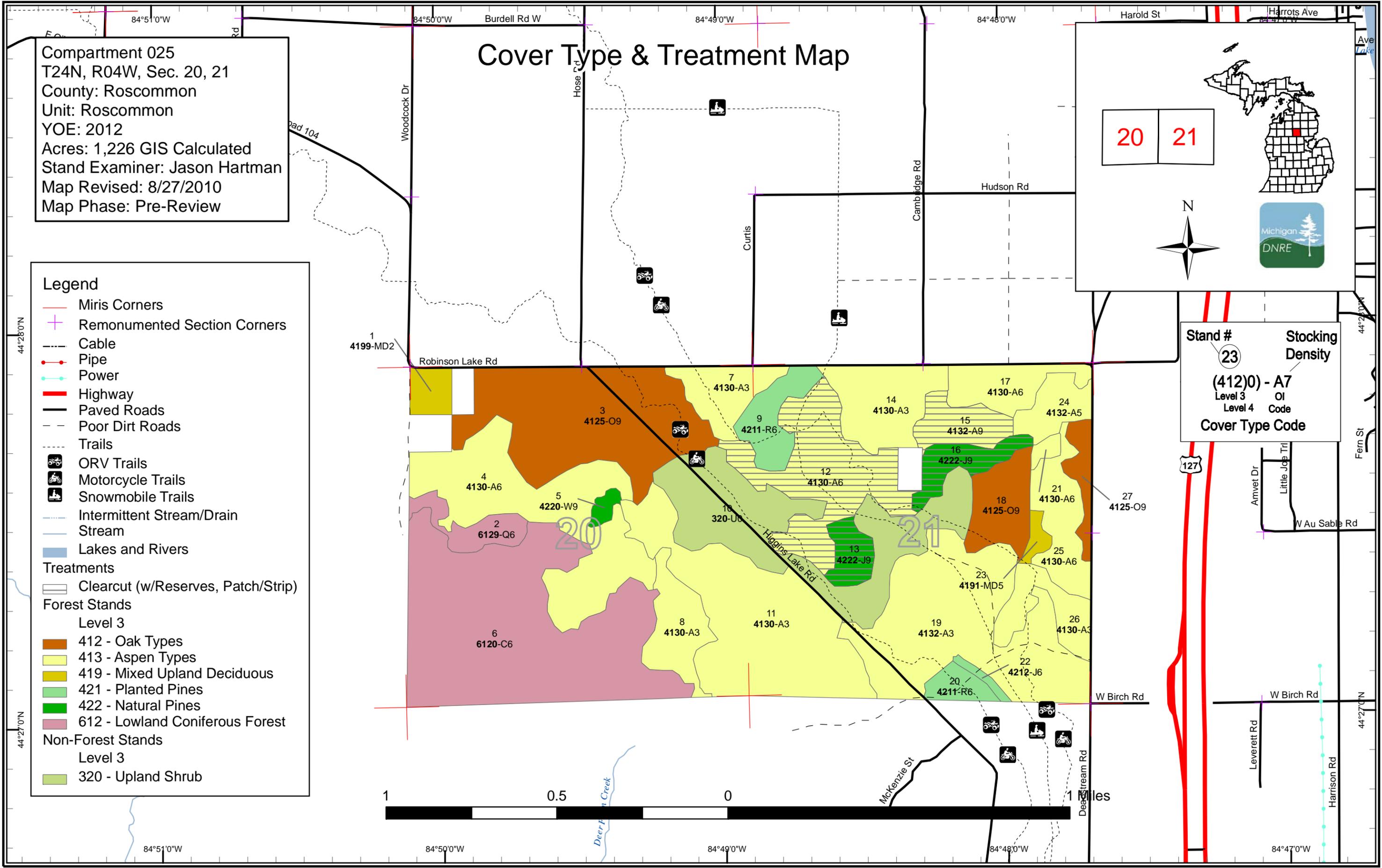
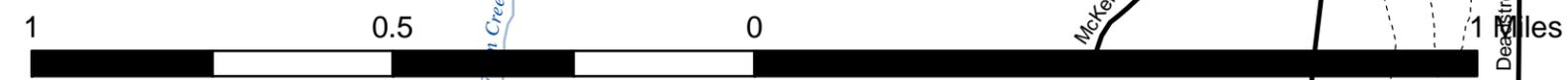
20 21



Stand # **23**
 Stocking Density
(4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

- Miris Corners
- + Remonumented Section Corners
- - - Cable
- Pipe
- Power
- ▬ Highway
- ▬ Paved Roads
- - - Poor Dirt Roads
- - - Trails
- ORV Trails
- Motorcycle Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Forest Stands
- Level 3
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- Non-Forest Stands
- Level 3
- 320 - Upland Shrub



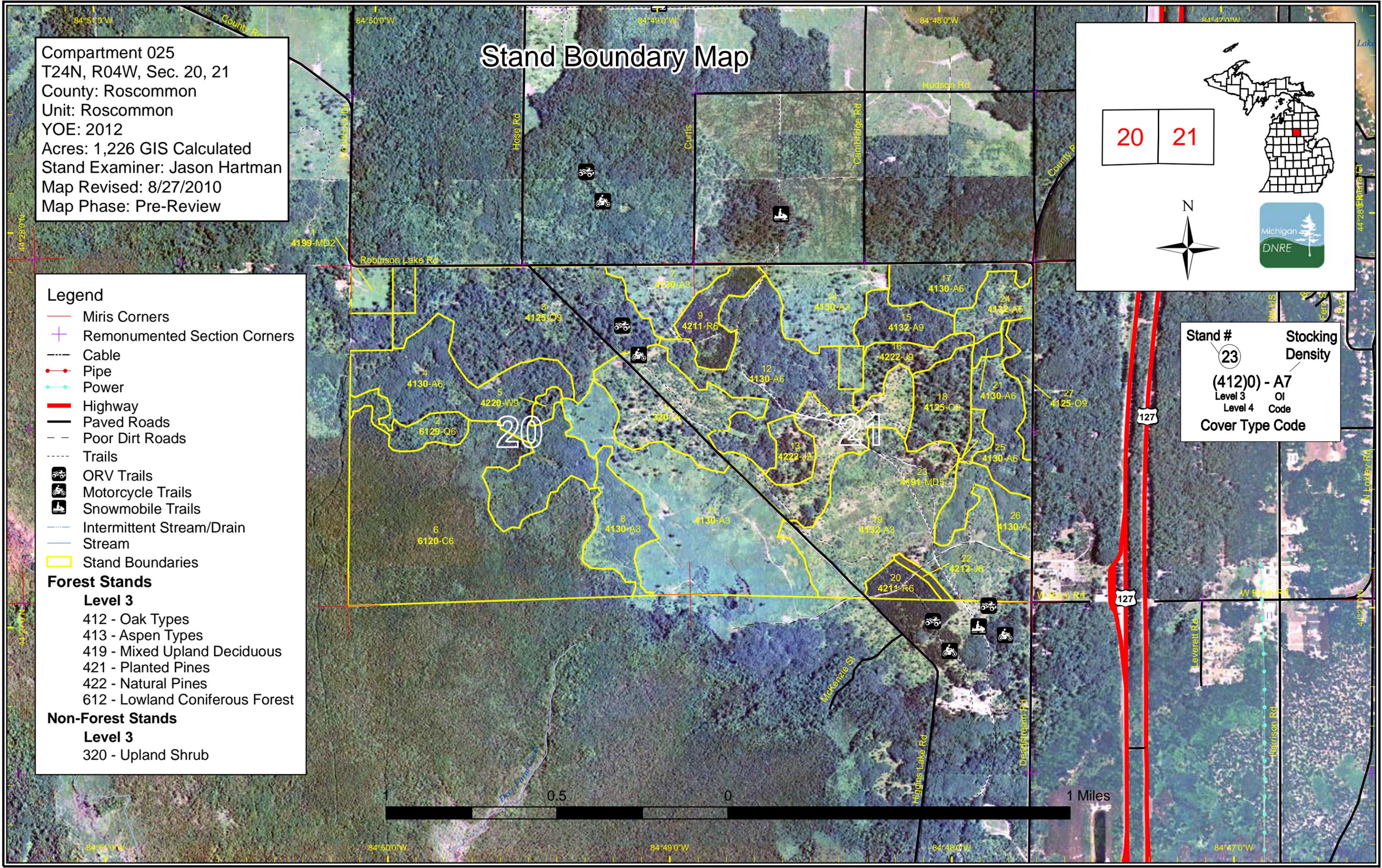
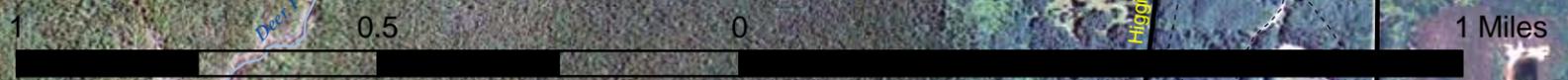
Stand Boundary Map

Compartment 025
 T24N, R04W, Sec. 20, 21
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- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Cable
 - Pipe
 - Power
 - = Highway
 - = Paved Roads
 - Poor Dirt Roads
 - Trails
 - ORV Trails
 - Motorcycle Trails
 - Snowmobile Trails
 - Intermittent Stream/Drain
 - Stream
 - Stand Boundaries

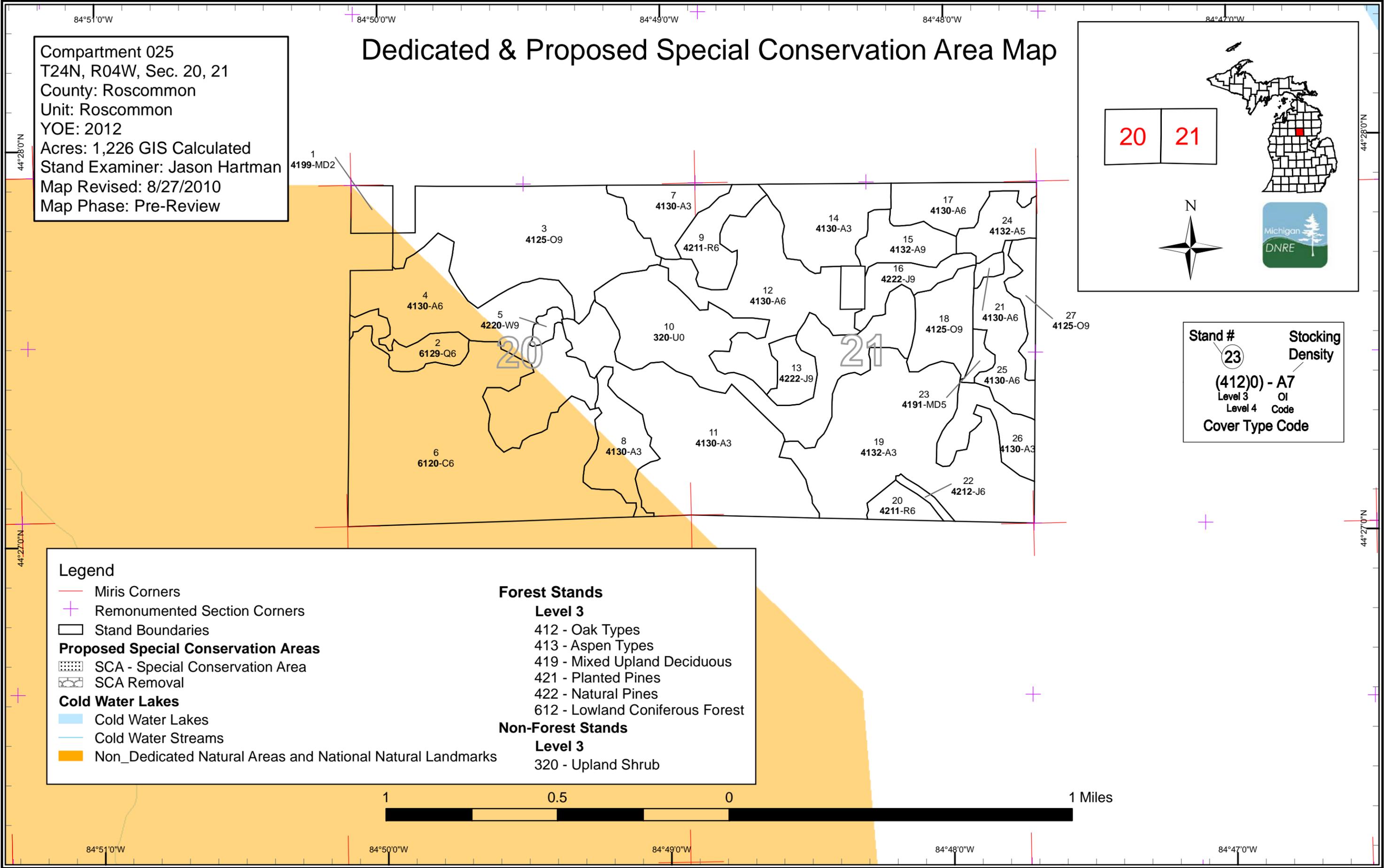
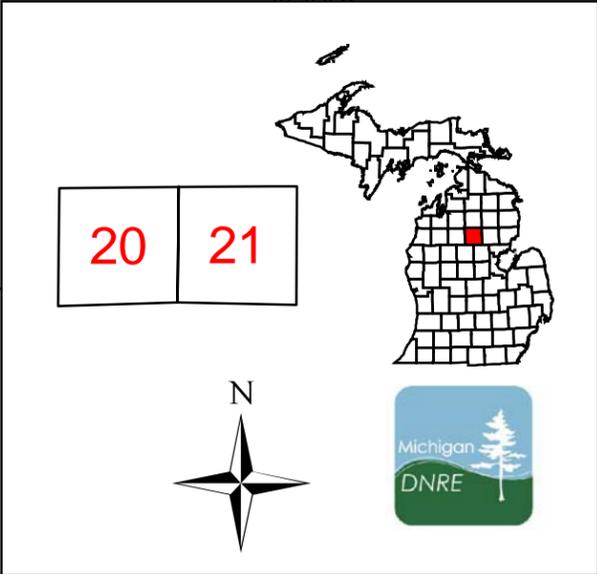
- Forest Stands**
- Level 3**
- 412 - Oak Types
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- Non-Forest Stands**
- Level 3**
- 320 - Upland Shrub

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Dedicated & Proposed Special Conservation Area Map

Compartment 025
 T24N, R04W, Sec. 20, 21
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 Unit: Roscommon
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 Stand Examiner: Jason Hartman
 Map Revised: 8/27/2010
 Map Phase: Pre-Review



Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Proposed Special Conservation Areas**
- ▨ SCA - Special Conservation Area
- ▩ SCA Removal
- Cold Water Lakes**
- Cold Water Lakes
- Cold Water Streams
- Non_Dedicated Natural Areas and National Natural Landmarks

Forest Stands

Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 320 - Upland Shrub



84°51'0"W 84°50'0"W 84°49'0"W 84°48'0"W 84°47'0"W

44°28'0"N

44°27'0"N

44°28'0"N

44°27'0"N

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	190	186	187	0	0	0	77	0	21	0	0	0	0	0	662
Cedar	0	0	0	0	0	0	0	0	0	0	0	195	0	0	0	195
Jack Pine	0	0	0	3	0	0	0	0	0	31	0	0	0	0	0	34
Lowland Conifers	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	11	0	5	0	0	0	0	0	0	0	0	0	0	0	16
Oak	0	0	0	0	0	0	0	0	0	41	0	119	0	0	0	160
Red Pine	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	33
Upland Shrub	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
White Pine	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
Total	106	201	186	227	0	0	0	77	17	93	0	318	0	0	0	1226



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Roscommon Mgt. Unit
Year of Entry 2012

Compartment 025
Total Compartment Acres: 1226

Acres by Treatment Type

Commercial Harvest - 129	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	98	0	0	0	0	0	98
Jack Pine	31	0	0	0	0	0	31
Total	129	0	0	0	0	0	129



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	71025012-Cut	77.5	4130 - Aspen	High Density Pole	65	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription Final harvest with 2" spec. Protect hawthorne understory. ORV and snowmobile trail run through stand. Protect with appropriate contract specs.
Specs:

Other Comments:

Next Steps:

13	71025013-Cut	13.3	42220 - Natural Jack Pine	High Density Log	85	Harvest	Clearcut	Planted Jack Pine	Cmpt. Review Proposal
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Prescription Final harvest stand protecting oak and hawthorne understory. No retention. Plant to jack pine after harvest.
Specs:

Other Comments:

Next Steps: Trench and plant jack pine following harvest.

15	71025015-Cut	20.8	4132 - Aspen, Jack Pine	High Density Log	85	Harvest	Clearcut with Reserves	Aspen, Oak	Cmpt. Review Proposal
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Prescription Final harvest stand leaving a few nicer crowned oaks per acre for mast and retention. Favor healthy white oaks.
Specs:

Other Comments:

Next Steps:

16	71025016-Cut	17.8	42220 - Natural Jack Pine	High Density Log	85	Harvest	Clearcut with Reserves	Planted Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Final harvest and replant to jack pine in areas where the aspen doesn't fill in. Little to no retention.
Specs:

Other Comments:

Next Steps: Trench and plant jack pine following harvest.

**Total Treatment
Acreage Proposed: 129.4**



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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
Acres 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**

Stand	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 025	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012	
1	4199 - Other Mixed Upland Deciduous	Medium Density	10.8	6			Good mix of oak aspen and red maple.
2	6129 - Mixed Coniferous Lowland Forest	High Density Pole	16.7	77	111-140		Hemlock stand found along edge of Dead Stream Swamp. Red maple and a few quaking aspen and white birch, Some large and impressive white pine mixed in and on the edge. No understory.
3	4125 - Black, N. Pin Oak	High Density Log	119.2	100	81-110		Large, very old oak stand with red maple and some scattered patches of aspen. Single stem red maple understory(recruitment) in understory. Ares of thick hawthorn, Manage for oak mast, den trees and red maple in the future.
4	4130 - Aspen	High Density Pole	106.2	26	51-80		Quaking aspen poletimber standwith some red maple and a few oakes mixed in. Areas of heavy hawthorne understory. Some hypoxylon starting. Harvest next entry. Old railroad runs through the stand.
5	42200 - Natural White Pine	High Density Log	3.9	100	81-110		Small stand of large white and red pine mixed with red maple.
6	6120 - Lowland Cedar	High Density Pole	194.6	100	171-200		East edge of Dead Stream Swamp. Some black ash, and birch. Some white pine and hemlock on outside edges where drier and higher. Ares within have more black spruce. Good winter deer use but it seems limited to the exterior perimeter and not far interior. Old fire evidence found in some areas of interior. SCA as potential "old growth".
7	4130 - Aspen	High Density Sapling	25.3	6			Seed tree harvest in 2004. Scattered old supercanopy oaks.
8	4130 - Aspen	High Density Sapling	29.2	14			
9	42110 - Planted Red Pine	High Density Pole	23.0	25	51-80		
11	4130 - Aspen	High Density Sapling	123.5	6			A3 stand with a few more open areas growing cherry.
12	4130 - Aspen	High Density Pole	77.5	65	51-80		Two aged quaking aspen stand with a heavy understory of hawthorne. Old notes indicate that logger never completely finished sale and left many trees standing(high grading) thus creating a two aged scenario. Younger age class is from 1984 and about 4" avg DBH. Hypoxylon is now affecting both age classes. Final harvest, protect hawthorne understory.
13	42220 - Natural Jack Pine	High Density Log	13.3	85	51-80		Over jack pine stand with some scatered small openings. Jack pine mortality is prevalent due to age. Oak and hawthorne is in understory. Final harvest jack pine while protecting oak and hawthorne.Plant jack pine, Possibly no retention.
14	4130 - Aspen	High Density Sapling	41.6	7			Aspen stand with some scattered mature oak left after harvest.



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Roscommon Mgt. Unit

5 – Forested Stands

Compartment: 025

Data updated before 10:00 AM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4132 - Aspen, Jack Pine	High Density Log	20.8	85	51-80	Aspen jack pine stand with some oak mixed in. More component oak on the east side. Some nice crowned white oak mast present. Jack pine and aspen is overmature and experiencing decline and mortality. Final harvest and regenerate aspen. Save a few oak/acre for mast and retention.
16	42220 - Natural Jack Pine	High Density Log	17.8	85	51-80	Overmature jack pine stand with some quaking aspen mixed in. Some oak in understory. A lot of mortality on the jack pine. Final harvest and plant jack pine in areas where aspen doesn't fill in.
17	4130 - Aspen	High Density Pole	26.1	27	51-80	Thick, mixed aspen stand.
18	4125 - Black, N. Pin Oak	High Density Log	28.4	85	51-80	Low quality old black oak with some quaking aspen mixed in. Heavy brush understory made up of hawthorn, cherry and witch hazel. A few areas of oak regen.
19	4132 - Aspen, Jack Pine	High Density Sapling	132.7	15		Stand is a mix of aspen, oak jack pine, cherry and hawthorne. Jack pine appears to have been seeded.
20	42110 - Planted Red Pine	High Density Pole	10.2	25	141-170	Red pine plantation.
21	4130 - Aspen	High Density Pole	3.4	27	81-110	Small stand of bigtooth aspen with brush understory.
22	42120 - Planted Jack Pine	High Density Pole	2.9	25	51-80	Narrow strip of jack pine plantation.
23	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	4.7	27	1-50	Low density of cherry, jack pine and quaking aspen. Heavy brush understory made up of cherry hawthorn and some oak.
24	4132 - Aspen, Jack Pine	Medium Density Pole	18.7	27	1-50	
25	4130 - Aspen	High Density Pole	32.3	27	1-50	Low quality quaking aspen stand with a heavy brush understory.
26	4130 - Aspen	High Density Sapling	24.3	15		
27	4125 - Black, N. Pin Oak	High Density Log	12.7	85	81-110	Oak stand along CO. RD, 104. Aspen was harvested in 1984.



Stand	Cover Type	Acres	Gen Cmts:
10	320 - Upland Shrub	106.1	



7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Data updated before 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments
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8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Data updated before 10:00 AM

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

Conservation Area	Type	Description
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.