



## ROSCOMMON FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 40      ENTRY YEAR: 2012

Compartment Acreage: 1213      County: Roscommon

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**Revision Date:** 1/26/10

**Stand Examiner:** D. Ekdorn

**Legal Description:** T24N R02W Sections 26 & 35

**Management Area:** Au Sable Outwash

**Management Goals:** Maintain current age and species diversity in a range of early and late successional ecosystems.

**Soil and Topography:** Terrain is primarily flat with terrain rising to the NE and SW as you leave the compartment. Soils are Grayling sand in the uplands and Rifle peat in the lowlands.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment is primarily surrounded by state land except for a small residential sub-division in Section 27 and a small parcel in the NW of Section 36 with numerous hunting cabins. There is one 80 acre block of private property within the compartment in Section 26 which has mostly seasonal hunting cabins on small parcels.

**Unique, Natural Features:** No known T & E species within the compartment but numerous documented occurrences of several plant and animal species on lands surrounding the compartment. There is potential for many T & E species, especially in the swamps and lowlands along Hudson Creek and the grassy openings created by utility right-of-ways.

**Archeological, Historical, and Cultural Features:** None known or detected during fieldwork.

**Special Management Designations or Considerations:** Stands along Hudson Creek are High Conservation Value Areas by virtue of Hudson Creek being a tributary to the S. Branch of the Au Sable River which has Natural River designation. This compartment contains the headwaters for Hudson Creek and most of the compartment is within the proposed Hudson Creek Swamp Biological Stewardship Area (BSA). 1 natural white pine stand has been proposed for Special Conservation Area designation.

**Watershed and Fisheries Considerations:** Hudson Creek and Hudson Creek Swamp.

**Wildlife Habitat Considerations:** Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, and turkeys as well as non-game species.

**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 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 three miles to the southwest. Gravel potential is thought to be limited. St. Helen Field lies one mile to the east. 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.

**Vehicle Access:** Vehicle access to the compartment is good except in the center of the compartment

**Survey Needs:** None necessary at this time.

**Recreational Facilities and Opportunities:** This compartment contains portions of the Geels North ORV trail, Roscommon to Geels ORV route, and Roscommon to St. Helen snowmobile trail and is also heavily used for dispersed recreation activities especially hunting.

**Fire Protection:** Access for fire suppression is excellent via county seasonal roads and forest two tracks in the uplands. Jack pine is concentrated in the uplands which also has most of the wildland-urban interface. However, abundant natural barriers to fire in the compartment and close proximity to suppression forces will usually keep fires in this compartment small.

**Additional Compartment Information:** Compartment has a major electric transmission and gas pipeline right-of-way in the north half of Section 26. Proposed treatments include 43 acres of final harvests in the aspen/jack pine cover types.

➤ **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**

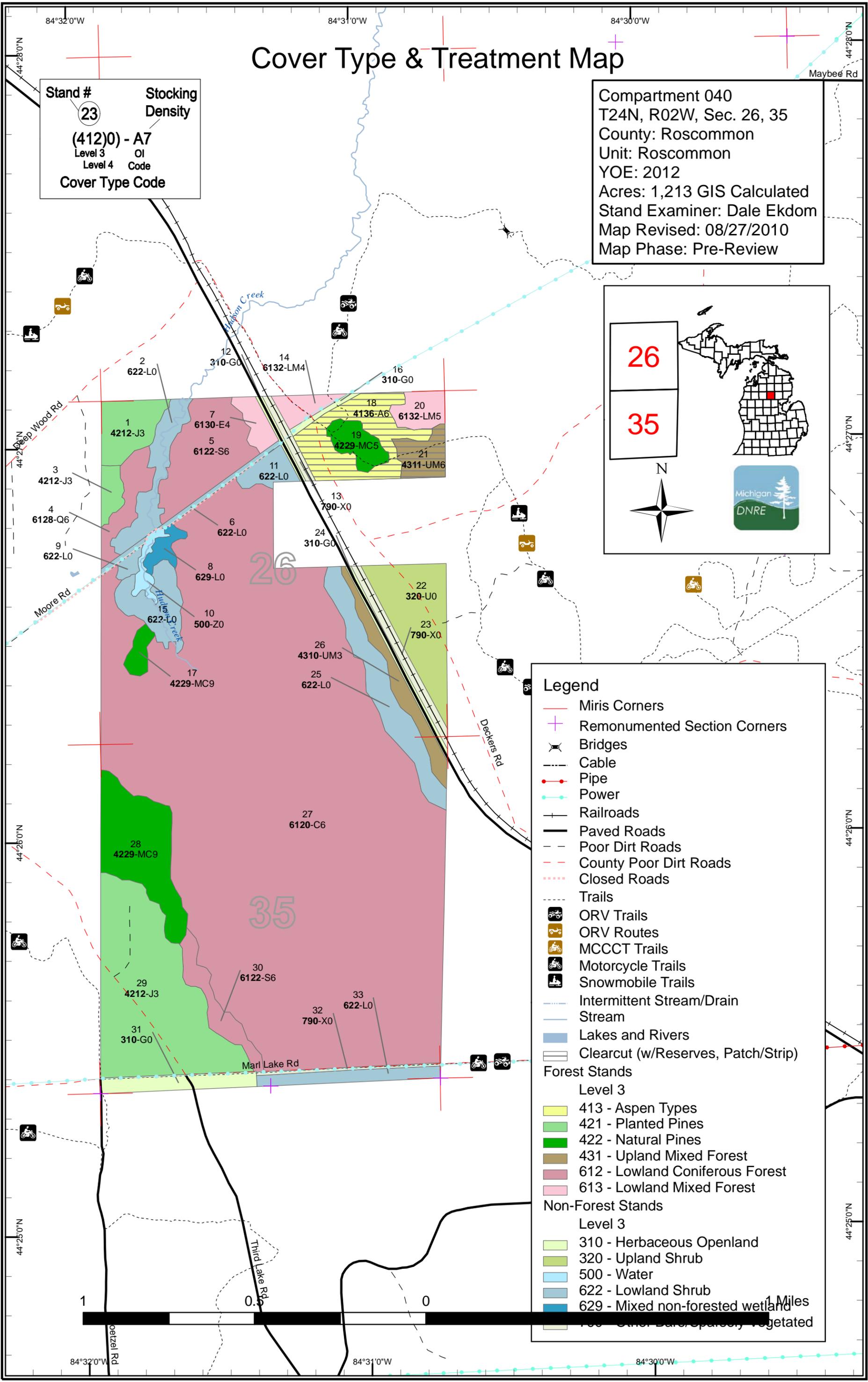
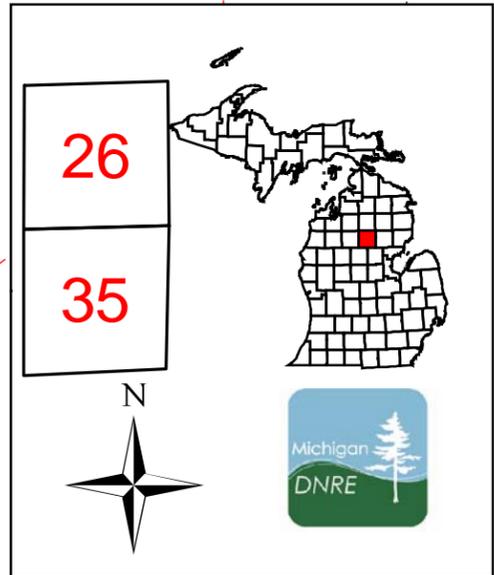
➤ **The following information is displayed, where pertinent, on the attached compartment maps:**

- ◆ **Base feature information, stand numbers, cover types**
- ◆ **Proposed treatments**
- ◆ **Proposed road access system**
- ◆ **Suggested potential old growth**

# Cover Type & Treatment Map

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

Compartment 040  
 T24N, R02W, Sec. 26, 35  
 County: Roscommon  
 Unit: Roscommon  
 YOE: 2012  
 Acres: 1,213 GIS Calculated  
 Stand Examiner: Dale Ekdorn  
 Map Revised: 08/27/2010  
 Map Phase: Pre-Review



### Legend

- Miris Corners
- + Remonumented Section Corners
- ⌘ Bridges
- - - Cable
- Pipe
- Power
- +— Railroads
- Paved Roads
- - - Poor Dirt Roads
- - - County Poor Dirt Roads
- ⋯ Closed Roads
- - - Trails
- ⌘ ORV Trails
- ⌘ ORV Routes
- ⌘ MCCCT Trails
- ⌘ Motorcycle Trails
- ⌘ Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- ▭ Clearcut (w/Reserves, Patch/Strip)

### Forest Stands

Level 3

- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

### Non-Forest Stands

Level 3

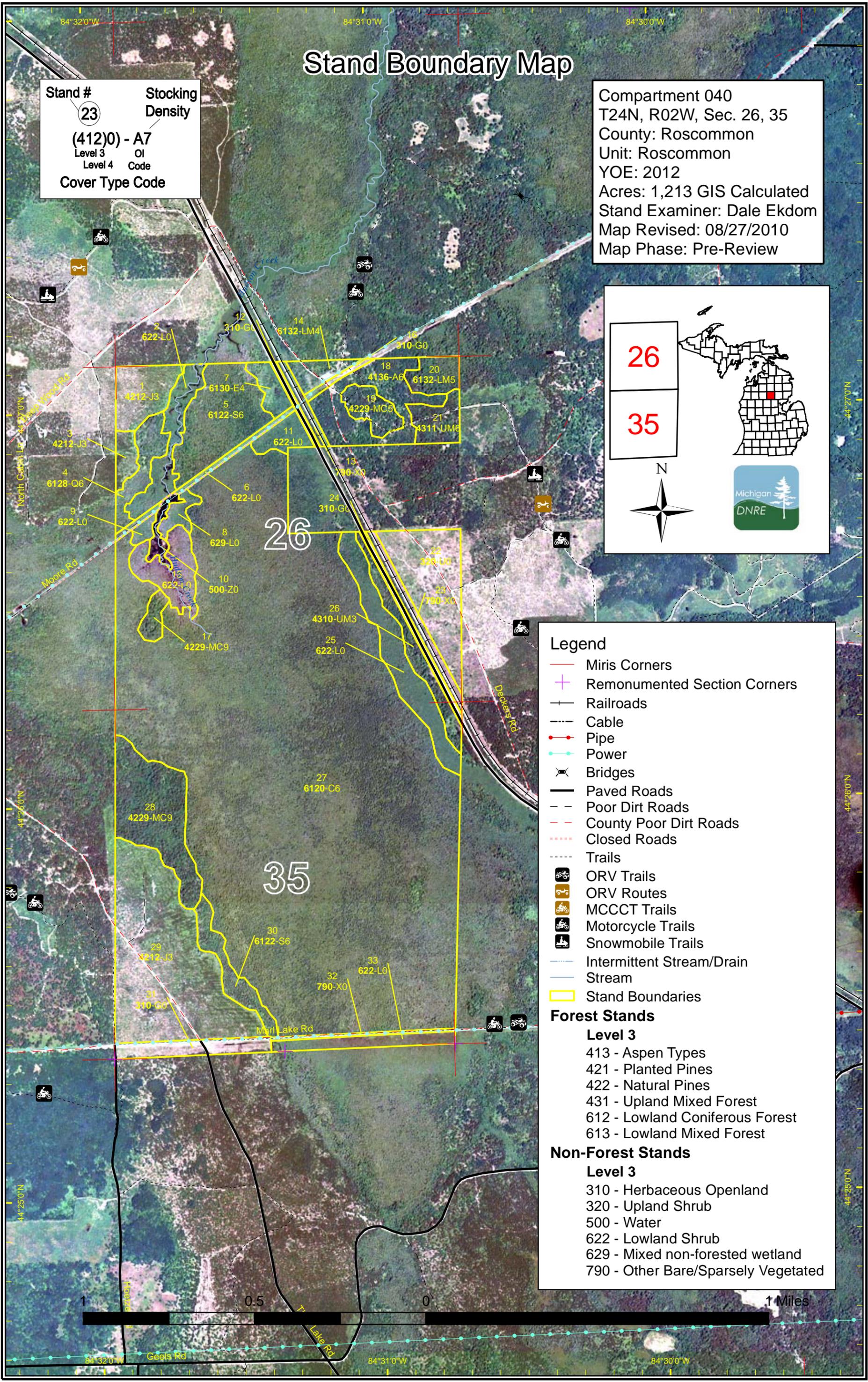
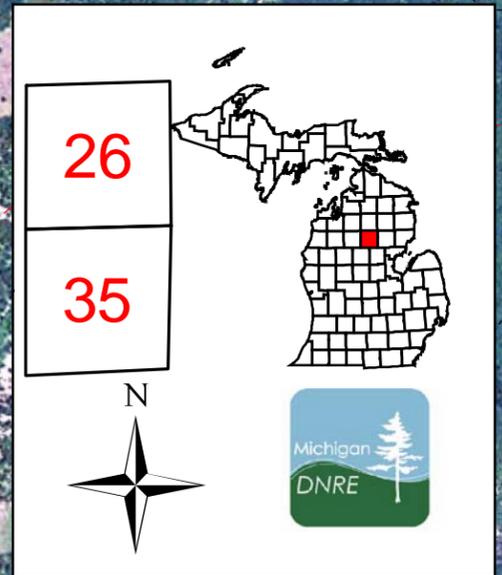
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- 630 - Other Bare, sparsely vegetated



# Stand Boundary Map

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

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 T24N, R02W, Sec. 26, 35  
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**Legend**

- Miris Corners
- + Remonumented Section Corners
- Railroads
- Cable
- Pipe
- Power
- ⊗ Bridges
- Paved Roads
- - - Poor Dirt Roads
- - - County Poor Dirt Roads
- ⋯ Closed Roads
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- 🛵 ORV Trails
- 🛵 ORV Routes
- 🛵 MCCCT Trails
- 🛵 Motorcycle Trails
- 🛵 Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- ▭ Stand Boundaries

**Forest Stands**

**Level 3**

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**Non-Forest Stands**

**Level 3**

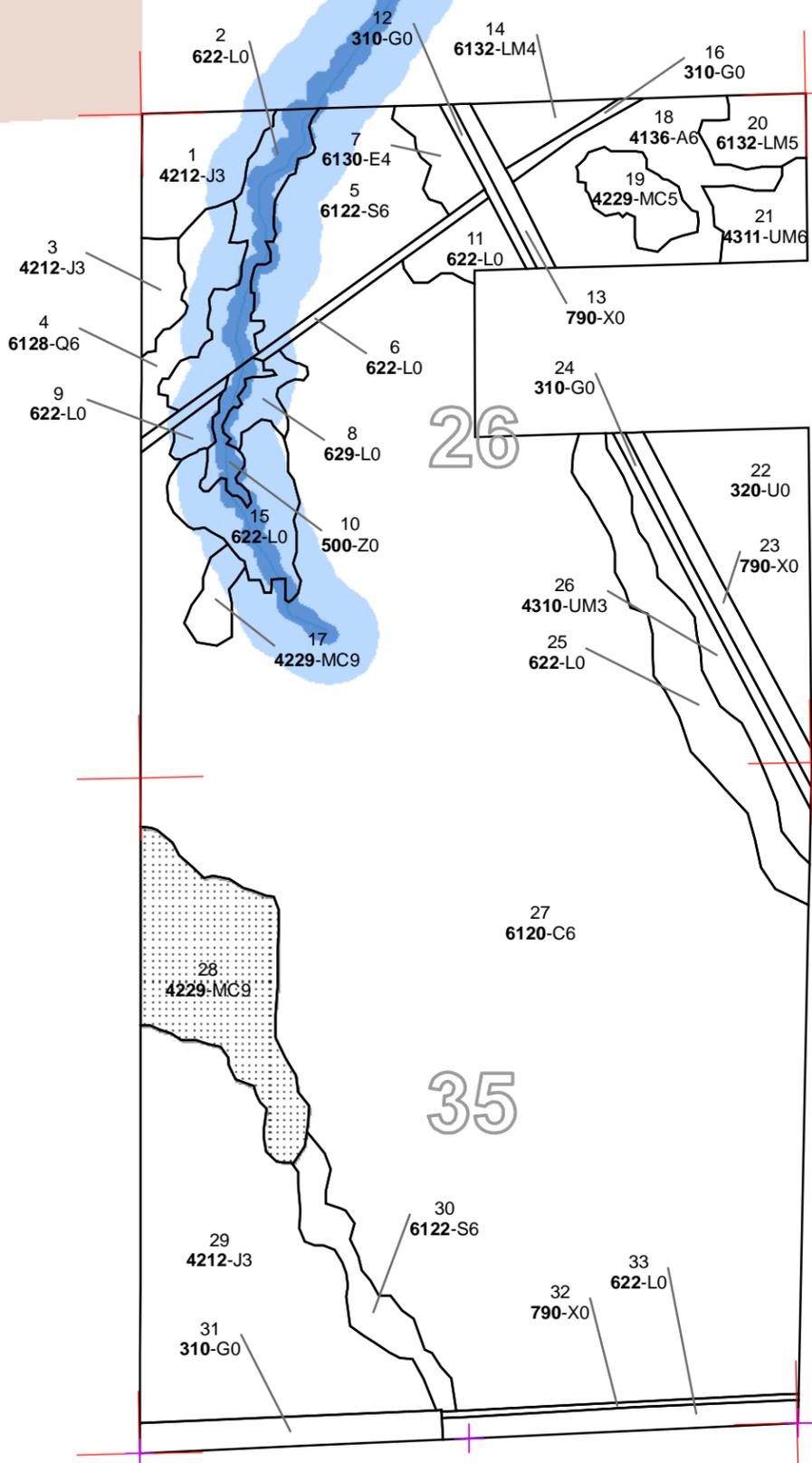
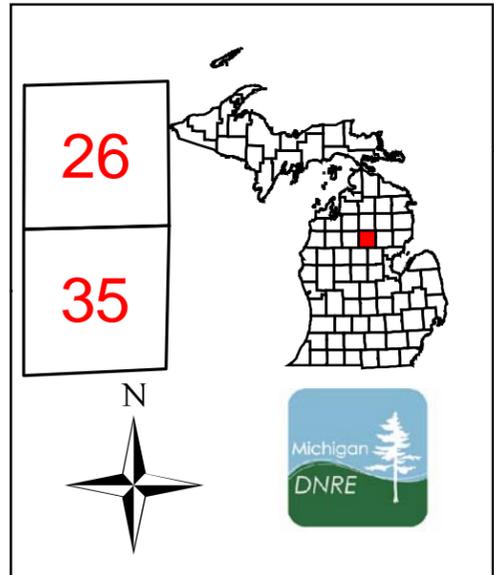
- 310 - Herbaceous Openland
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- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- 790 - Other Bare/Sparsely Vegetated



# Dedicated & Proposed Special Conservation Area Map

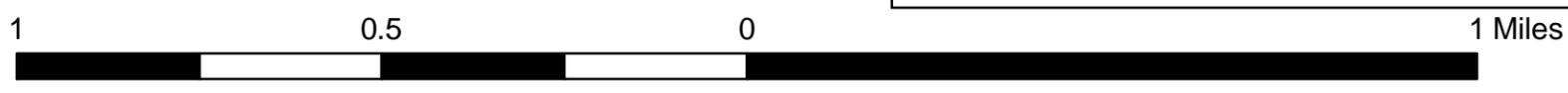
**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

Compartment 040  
 T24N, R02W, Sec. 26, 35  
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 Unit: Roscommon  
 YOE: 2012  
 Acres: 1,213 GIS Calculated  
 Stand Examiner: Dale Ekdorn  
 Map Revised: 08/27/2010  
 Map Phase: Pre-Review

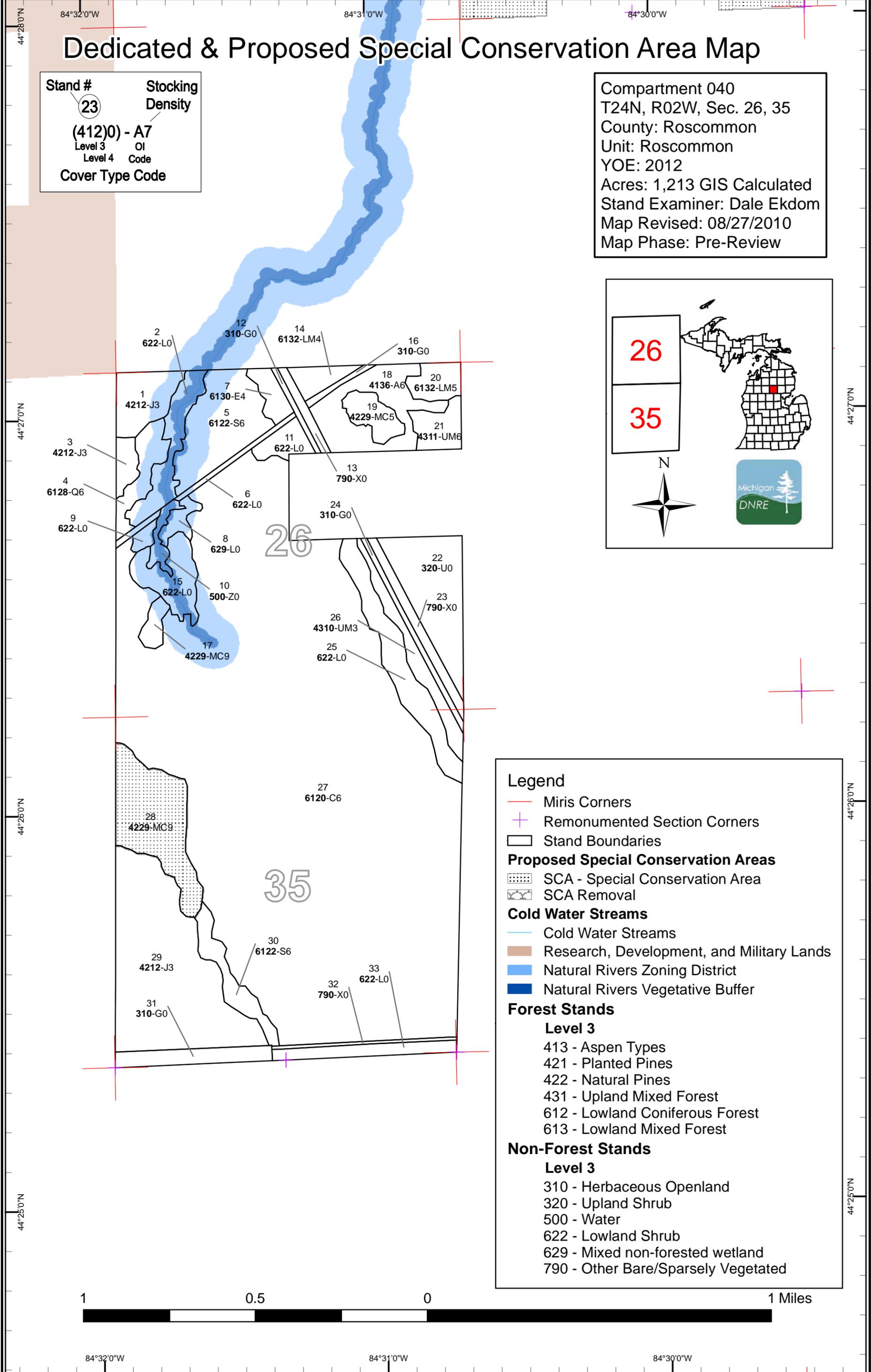


**Legend**

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Proposed Special Conservation Areas**
- ▨ SCA - Special Conservation Area
- ▩ SCA Removal
- Cold Water Streams**
- Cold Water Streams
- Research, Development, and Military Lands
- Natural Rivers Zoning District
- Natural Rivers Vegetative Buffer
- Forest Stands**
- Level 3**
- 413 - Aspen Types
- 421 - Planted Pines
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84°32'0"W      84°31'0"W      84°30'0"W



**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	0	0	0	0	31	0	0	0	0	0	0	0	0	0	31
Bare/Sparsely Vegetated	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	704	0	0	704
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Jack Pine	0	0	116	6	0	0	0	0	0	0	0	0	0	0	0	122
Lowland Conifers	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	14	9	0	0	0	0	24
Lowland Shrub	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
Lowland Spruce/Fir	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	51
Natural Mixed Pines	0	0	0	0	0	0	10	0	0	0	5	0	0	0	42	57
Upland Mixed Forest	0	0	0	0	15	11	0	0	0	0	0	0	0	0	0	25
Upland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>185</b>	<b>0</b>	<b>116</b>	<b>6</b>	<b>15</b>	<b>42</b>	<b>62</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>14</b>	<b>0</b>	<b>704</b>	<b>0</b>	<b>42</b>	<b>1213</b>



## Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Roscommon Mgt. Unit  
Year of Entry 2012

Compartment 040  
Total Compartment Acres: 1213

### Acres by Treatment Type

Commercial Harvest - 42	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	31	0	0	0	0	0	31
Upland Mixed Forest	11	0	0	0	0	0	11
<b>Total</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>42</b>



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
18 71040018-Cut	31.2	4136 - Aspen, Mixed Conifer	High Density Pole	46	Harvest	Clearcut with Reserves	Aspen, Mixed Pine	Cmpt. Review Proposal

Prescription: cut aspen, red maple, and jack pine and leave oak, and R/W pine for retention/diversity, wildlife needs, and visual on the recreational trails thru the stand, swamp to the NE and any "L" pockets within the stand will need to be buffered, chip tops to eliminate hypoxylon inoculum, will need rutting spec. and wildlife may want "rabbit" spec. along swamp to the NE

Other: signs are in trespass on the south side of the stand, any level of regeneration stocking and species is acceptable although stand will most likely regenerate to aspen, watch visuals and protection of recreational trails within stand

Next Steps: regeneration survey

21 71040021-Cut	10.8	4311 - Pine, Aspen Mix	High Density Pole	46	Harvest	Clearcut with Reserves	Aspen, Mixed Pine	Cmpt. Review Proposal
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Prescription: cut all aspen, red maple, and jack pine and leave oak and R/W pine for retention/diversity, wildlife needs, and visual on the recreational trails within the stand, leave wet "L" types within and on edge of stand out of the sale, chip tops to reduce hypoxylon inoculum, buffer swamp/"L" type on the NE corner, use rutting spec. and wildlife may want "Rabbit" spec. included

Other: signs in trespass on the south side of the stand, any species combination to make up a fully stocked stand is acceptable, trench/seed jack pine if stand is ends up to be not fully stocked, watch visuals and protection of recreational trail within stand

Next Steps: regeneration survey

**Total Treatment  
Acreage Proposed: 42.0**



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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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#Error

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Limiting Factor and No  
Treatment Reason

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**Total Treatment**  
**Acres Proposed: 0**

Data updated before 10:00 AM

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

Year of Entry: 2012



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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  
Comments:

Next  
Steps:

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**Total Treatment  
Acreage Proposed: 0**

Stand	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 040
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
1	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	17.7	16		JP planted 1994
3	42120 - Planted Jack Pine	High Density Sapling	5.8	22		JP planted 1988
4	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	13.0	80		cedar poles with black spruce and RM poles
5	6122 - Black Spruce	High Density Pole	37.8	50		low, wet stand with numerous blowdowns
7	6130 - Fir, Aspen, Maple	Low Density Pole	7.1	85		almost an "L" with scattered conifer and decid. trees, will convert to "L" or "Q" if not treated
14	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	7.2	89		west of Deckers Rd is low D trees, E. of Deckers Rd is Q5, Far east end is dry with "U" type
17	42290 - Natural Mixed Pine	High Density Log	4.9	90		island of natural pine surrounded by swamp
18	4136 - Aspen, Mixed Conifer	High Density Pole	31.2	47		hummocky ground but operable with care, stand is aspen with scattered oak and red pine, cut A/M/J and leave oak and R/W pine for retention/wildlife/diversity/visual on the rec. trails thru stand, any level of regen. stocking and species is acceptable - most likely will regenerate well to aspen
19	42290 - Natural Mixed Pine	Medium Density Pole	10.2	59	81-110	2 aged natural R/W pine stand going towards all age, pockets of natural pine interspersed with more open areas of younger HW's (appears to have had HW's removed in 1963), not ready for thinning yet, possibly thin pine next YOE
20	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	9.5	90		fairly wet lowland conifer swamp, some blowdown occurring
21	4311 - Pine, Aspen Mix	High Density Pole	10.8	47	81-110	mix of 46 year old A/J/RM and somewhat older R/W pine and WO/blac oak, treat by cutting all A/J/RM and leaving R/W pine and oak for seed source, any level of regen. stocking and species is acceptable OR seed jack pine/ leave JP tops in areas heavy to jack pine, manage for a mixed stand of A/JP/O/R-W pine
26	4310 - Pine, Oak Mix	High Density Sapling	14.6	31	51-80	mostly upland stand, long and narrow and no good place for a landing, plus 1/2 mile of visual problem along M-76 if treated, good stand to leave for aesthetics, converting to white pine
27	6120 - Lowland Cedar	High Density Pole	704.3	110		primeval swamp, wet and dense with lots of blowdown, larger holes have BF coming up into them



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Roscommon Mgt. Unit

## 5 – Forested Stands

Compartment: 040

Data updated before 10:00 AM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	42290 - Natural Mixed Pine	High Density Log	42.2	Uneven Age	81-110	natural red and white pine SL & X-logs with RP poles and small SL/RM poles, heavy u.s. of WP, connects with W9-W6 in compartment to the west, some blowdown occuring good example of mesic northern conifers, may need some manipulation of RM in future YOE to maintain as pine stand, some WP is 30" plus in diameter
29	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	98.8	18		JP planted 1992
30	6122 - Black Spruce	High Density Pole	13.7	50		stand is younger than main stand to the north-east



Stand	Cover Type	Acres	Gen Cmts:
2	622 - Lowland Shrub	18.2	
6	622 - Lowland Shrub	5.4	
8	629 - Mixed non-forested wetland	5.0	
9	622 - Lowland Shrub	2.5	
10	50 - Water	4.7	
11	622 - Lowland Shrub	8.0	
12	310 - Herbaceous Openland	2.9	
13	790 - Other Bare/Sparsely Vegetate	4.6	
15	622 - Lowland Shrub	18.0	
16	310 - Herbaceous Openland	2.3	
22	320 - Upland Shrub	38.9	planted to jack pine in 2007 after being cut in 2004
23	790 - Other Bare/Sparsely Vegetate	10.0	
24	310 - Herbaceous Openland	6.1	
25	622 - Lowland Shrub	29.9	
31	310 - Herbaceous Openland	13.2	
32	790 - Other Bare/Sparsely Vegetate	3.1	
33	622 - Lowland Shrub	11.9	

**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*

<b>Stand</b>	<b>SCA Type</b>	<b>SCA Name</b>	<b>Acres</b>	<b>Comments</b>
28	Unique Site - SCA	71040028	42.2	



## 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	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.
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.