



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT #54 ENTRY YEAR: 2012

Compartment Acreage: 1342 County: Roscommon

Revision Date: 6-2-2010

Stand Examiner: Jason Lewicki

Legal Description: T23N R01W sections 4, 9 and 16.

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: Soils on the uplands consist of primarily Croswell sands. Lowland areas are Tawas-Lupton muck. The topography is generally flat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The area is primarily state forest land. The exception is the areas surrounding Lake St. Helen and Mud lake which is owned by the St. Helen Shooing Club.

Unique, Natural Features: Lake St. Helen, the headwaters of the AuSable River.

Archeological, Historical, and Cultural Features: Potential for Native American archeological sites on and near Lake St. Helen.

Special Management Designations or Considerations: South Branch of the AuSable River lies on the west edge of the compartment and is an SCA.

Watershed and Fisheries Considerations: South Branch of the AuSable River lies on the west edge of the compartment.

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 4, 9 and 16, T23N R1W, Roscommon County

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 Michigan Formation. The Michigan is quarried for gypsum in the State. Most of the nearby gravel pits are associated with upland areas. The nearest gravel pit is located three miles to the south. Gravel potential is thought to be limited. St. Helen Field lies one mile to the north. 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: Access throughout the north half of the compartment is good while the south half of the compartment is cut off by multiple wet drainages prohibiting vehicle access.

Survey Needs: None

Recreational Facilities and Opportunities: A ORV and Snowmobile trail run through the compartment. The South Branch of the AuSable river provides an opportunity at hunting, fishing and canoeing.

Fire Protection: Much of the compartment is hardwood and lowland cover types minimizing large wildfire potential. Large areas of jack pine cover types lie just to the east of the compartment which carries a much larger potential.

Additional Compartment Information:

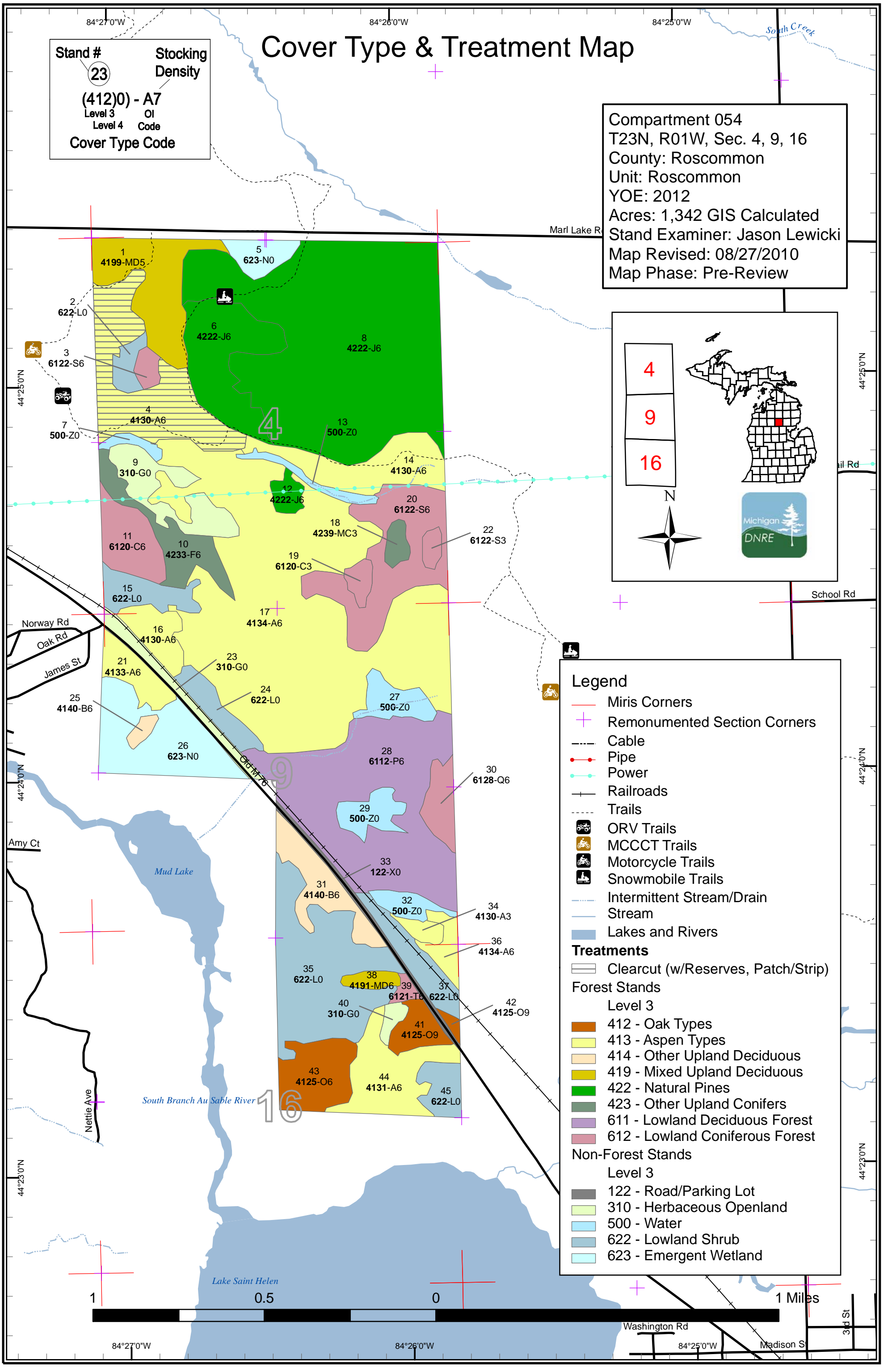
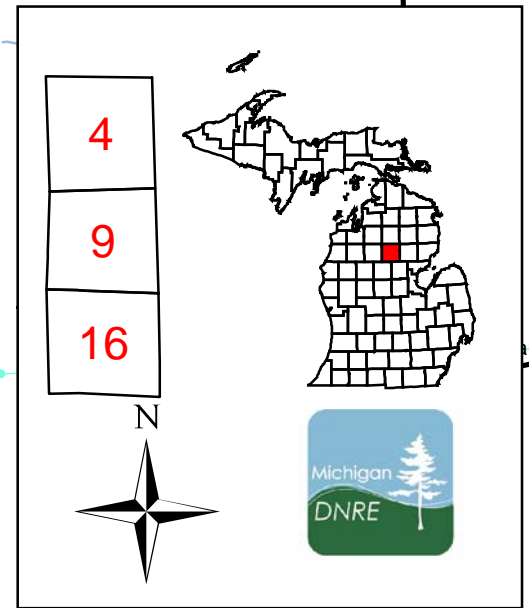
- **The following 5 reports from the Inventory are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

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

Compartment 054
 T23N, R01W, Sec. 4, 9, 16
 County: Roscommon
 Unit: Roscommon
 YOE: 2012
 Acres: 1,342 GIS Calculated
 Stand Examiner: Jason Lewicki
 Map Revised: 08/27/2010
 Map Phase: Pre-Review



Legend

- Miris Corners
- + Remonumented Section Corners
- - - Cable
- Pipe
- Power
- Railroads
- - - Trails
- ORV Trails
- MCCCT 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
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

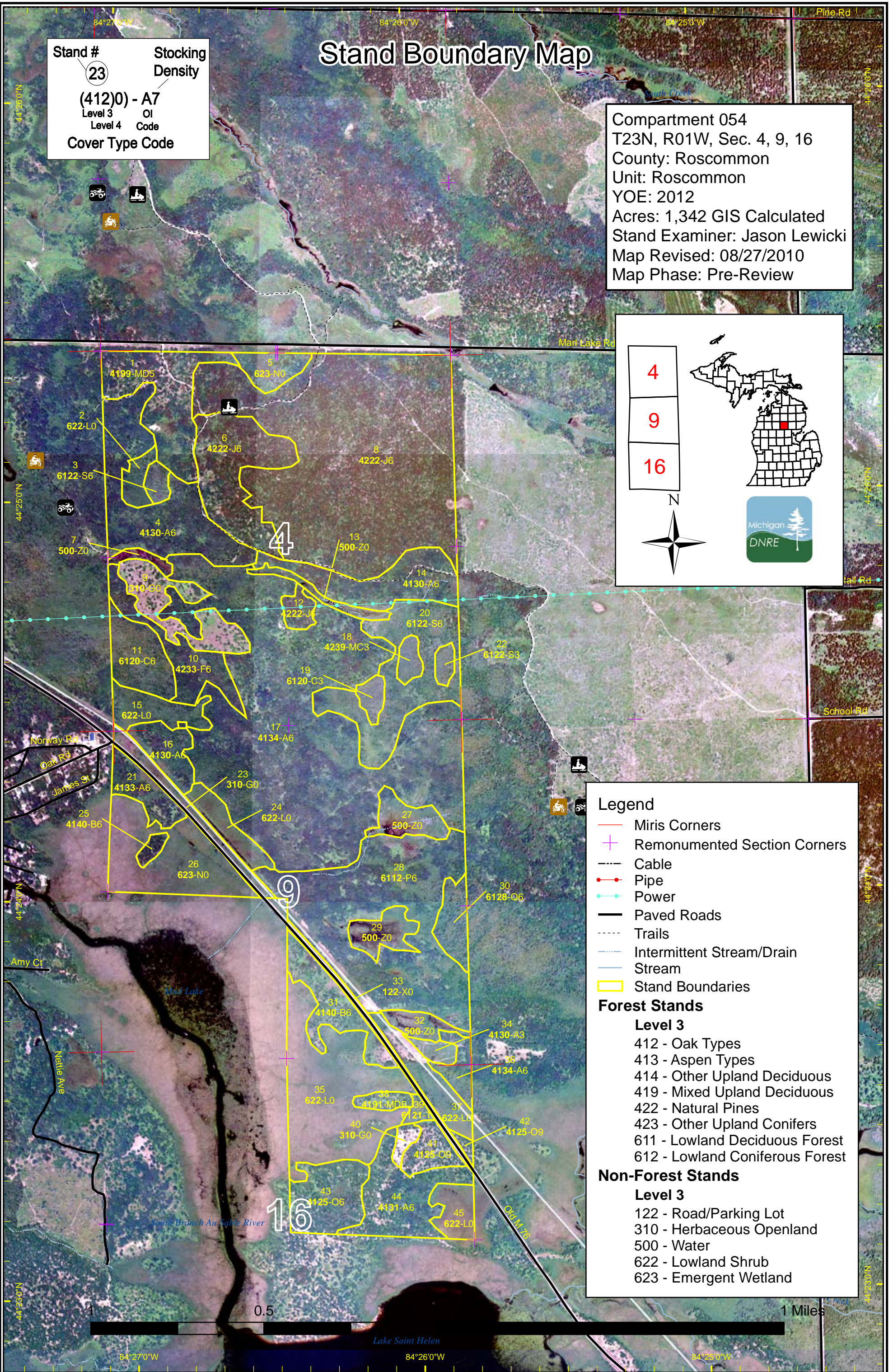
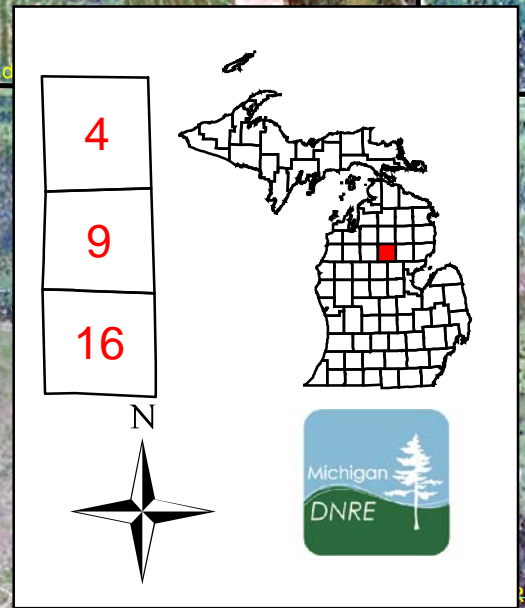
Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

Stand Boundary Map

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

Compartment 054
 T23N, R01W, Sec. 4, 9, 16
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 Map Revised: 08/27/2010
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Legend

- Miris Corners
- + Remonumented Section Corners
- - - Cable
- Pipe
- Power
- Paved Roads
- - - Trails
- - - Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

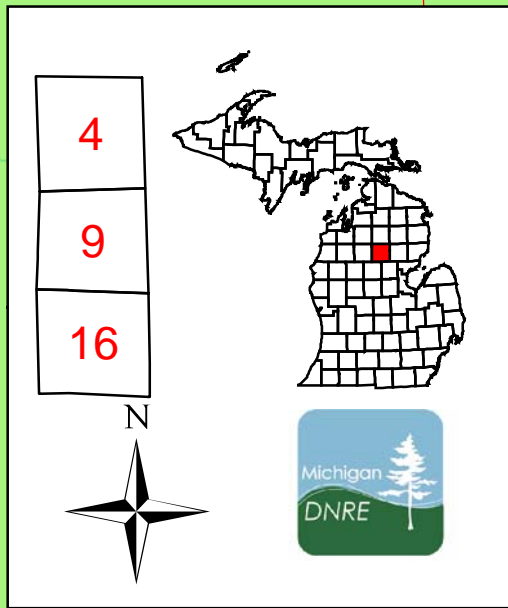
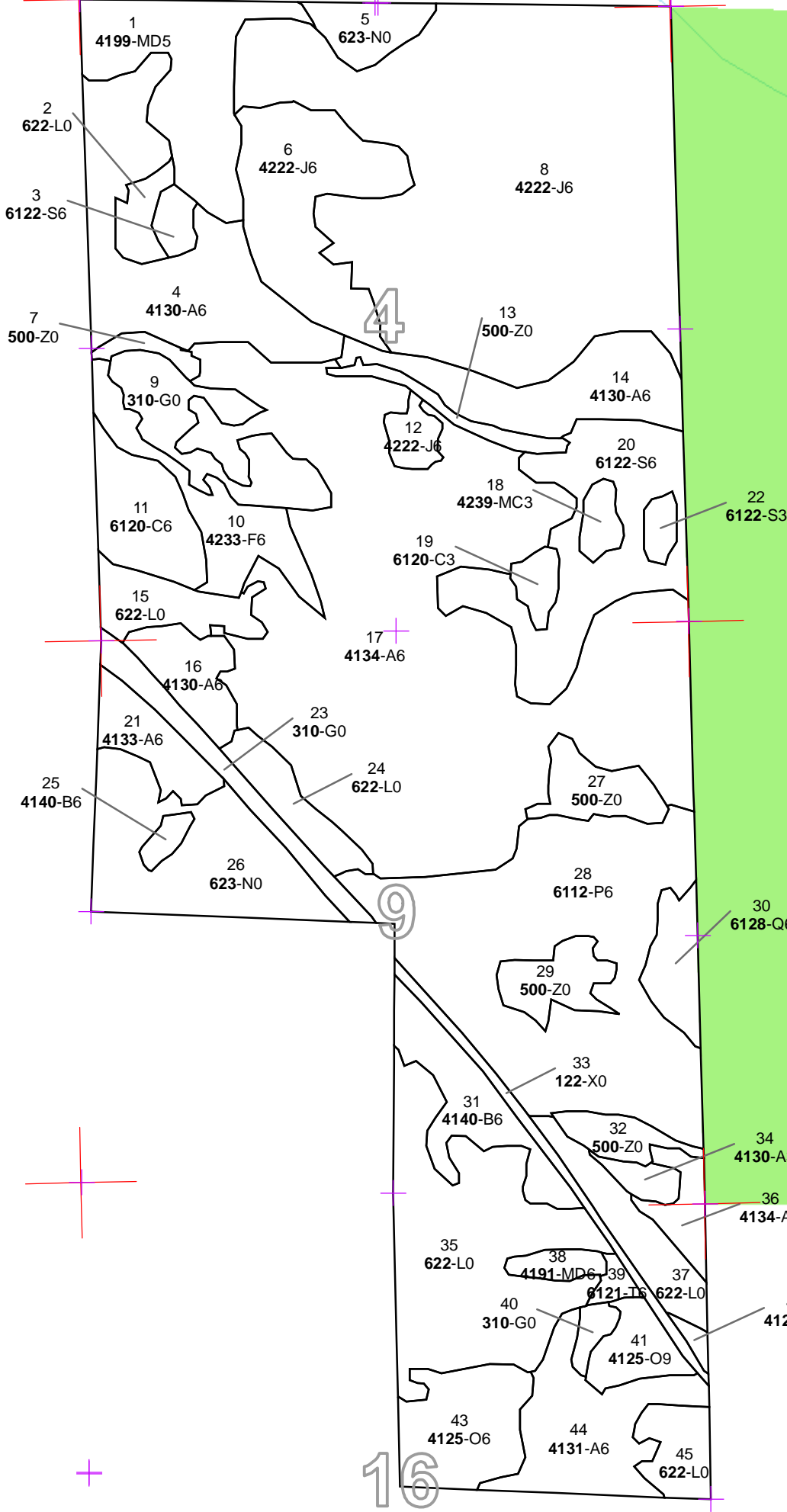
Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

Dedicated & Proposed Special Conservation Area Map

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

Compartment 054
 T23N, R01W, Sec. 4, 9, 16
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 YOE: 2012
 Acres: 1,342 GIS Calculated
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 Map Revised: 08/27/2010
 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 Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - Kirtland Warbler Habitat
 - Stand Boundaries
- Forest Stands**
 - Level 3**
 - 412 - Oak Types
 - 413 - Aspen Types
 - 414 - Other Upland Deciduous
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 611 - Lowland Deciduous Forest
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- Non-Forest Stands**
 - Level 3**
 - 122 - Road/Parking Lot
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 - 622 - Lowland Shrub
 - 623 - Emergent Wetland

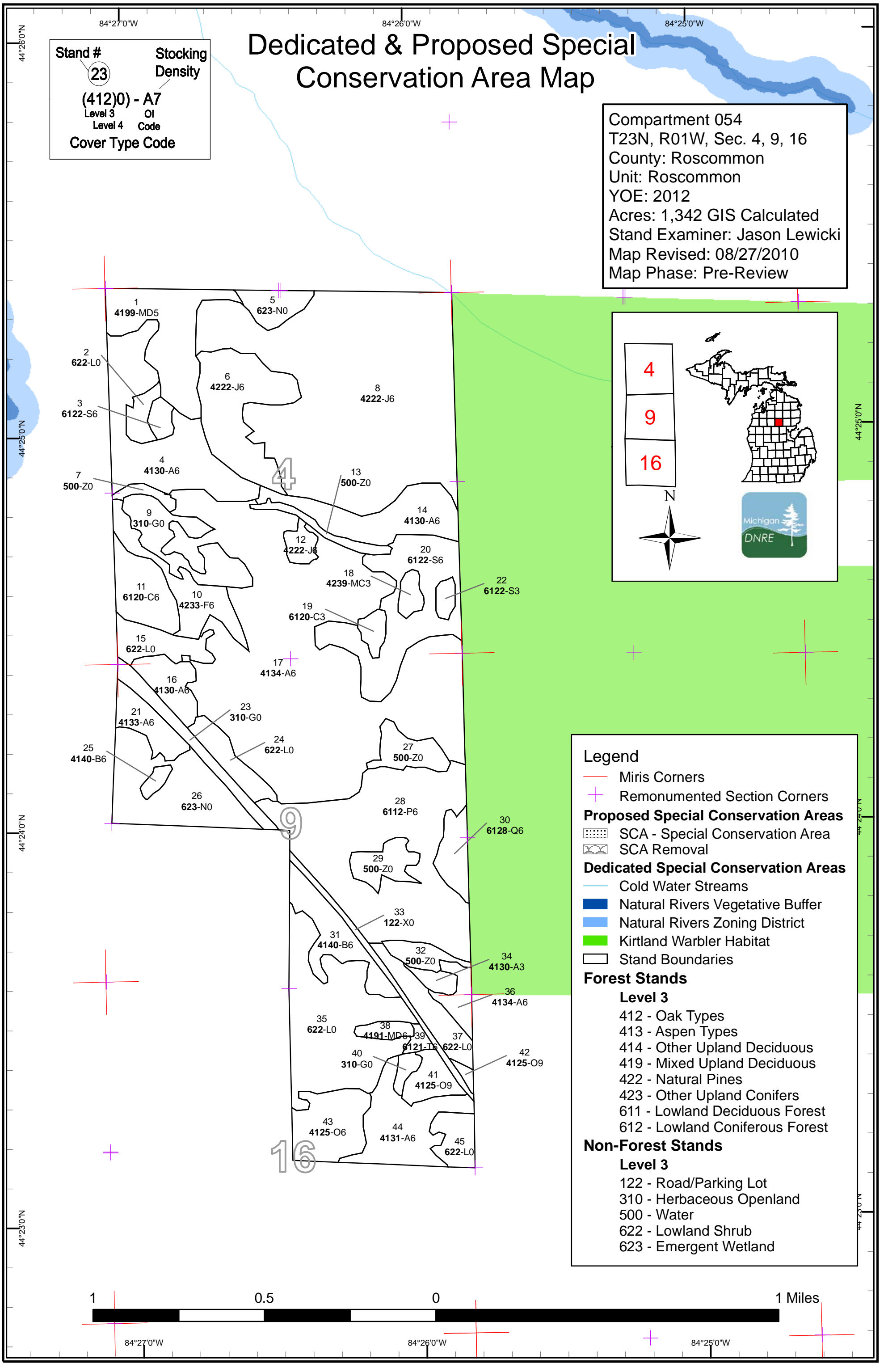
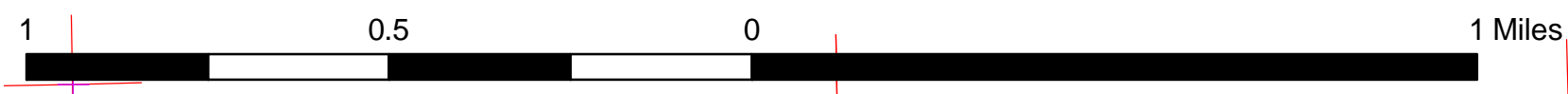


Table 1 – Total Acres by Cover Type and Age Class

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 | 4 | 0 | 0 | 395 | 14 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 427 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 27 |
| Herbaceous Openland | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| Jack Pine | 0 | 0 | 0 | 219 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 270 |
| Lowland Aspen/Balsam Poplar | 0 | 0 | 0 | 0 | 118 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 118 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 12 |
| Lowland Shrub | 136 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 136 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 60 |
| Marsh | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 42 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| Oak | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 39 |
| Paper Birch | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 26 |
| Tamarack | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| Upland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 |
| Upland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| Urban | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Water | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| Total | 287 | 4 | 0 | 219 | 581 | 42 | 51 | 4 | 0 | 138 | 15 | 0 | 0 | 0 | 0 | 1342 |



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Roscommon Mgt. Unit
Year of Entry 2012

Compartment 054
Total Compartment Acres: 1342

Acres by Treatment Type

| | | | | |
|-------------------------|-------------------------|-------------------|---------------------|-----------|
| Commercial Harvest - 58 | 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 | 58 | 0 | 0 | 0 | 0 | 0 | 58 |
| Total | 58 | 0 | 0 | 0 | 0 | 0 | 58 |



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| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|----------------|-------|------------------|-------------------|-----------|----------------|------------------------|----------------------|-----------------------|
| 4 71054004-Cut | 58.2 | 4130 - Aspen | High Density Pole | 32 | Harvest | Clearcut with Reserves | Aspen | Cmpt. Review Proposal |

Prescription. Final harvest using 2 inch spe. Leave some balsam fir and scattered supercanopy pine.

Specs:

Other

Comments:

Next

Steps:

**Total Treatment
 Acreage Proposed: 58.2**



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| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|

#Error

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 |
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|

Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

| S t a n d | Roscommon Mgt. Unit | | 5 – Forested Stands | | | Compartment: 054 | 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 Pole | 41.7 | 31 | | | Areas of cherry brush with scattered pine, oak and some aspen. |
| 3 | 6122 - Black Spruce | High Density Pole | 4.5 | 62 | 1-50 | | |
| 4 | 4130 - Aspen | High Density Pole | 58.2 | 32 | | | Stand was selected for out of entry harvest for age class diversity. |
| 6 | 42220 - Natural Jack Pine | High Density Pole | 44.9 | 55 | 51-80 | | |
| 8 | 42220 - Natural Jack Pine | High Density Pole | 219.3 | 28 | 51-80 | | |
| 10 | 42330 - Upland Fir | High Density Pole | 22.9 | 40 | 51-80 | | Mixed stand of balsam fir and quaking aspen. NW corner is being hit by beavers. |
| 11 | 6120 - Lowland Cedar | High Density Pole | 21.6 | 80 | 51-80 | | |
| 12 | 42220 - Natural Jack Pine | High Density Pole | 5.6 | 55 | 81-110 | | |
| 14 | 4130 - Aspen | High Density Pole | 33.4 | 34 | 51-80 | | |
| 16 | 4130 - Aspen | High Density Pole | 14.2 | 40 | 51-80 | | Some wet areas in stand especially to the south. More red maple and birch there. A small area of black ash currently infested with EAB. Fragmities patch at the west edge of stand along railroad tracks. |
| 17 | 4134 - Aspen, Spruce/Fir | High Density Pole | 261.1 | 34 | 51-80 | | Large(acerage) primarily quaking aspen stand mixed with heavy balsam fir. Some wet pockets and swales more dominated by fir, balsam poplar and tag alder. Scattered red and white pine super canopy trees present. Look at harvesting next entry. |
| 18 | 42390 - Mixed Non-Pine Upland Conifers | High Density Sapling | 4.9 | 80 | 1-50 | | |
| 19 | 6120 - Lowland Cedar | High Density Sapling | 5.0 | 80 | 1-50 | | |
| 20 | 6122 - Black Spruce | High Density Pole | 51.5 | 80 | 51-80 | | |
| 21 | 4133 - Aspen, Mixed Pine | High Density Pole | 13.9 | 80 | 51-80 | | A wet swale is found in center of stand. Also, an old rail road runs through stand. |
| 22 | 6122 - Black Spruce | High Density Sapling | 3.6 | 80 | | | |



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Roscommon Mgt. Unit

5 – Forested Stands
Data updated before 10:00 AMCompartment: 054
Year of Entry: 2012

| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-------------------------|-------|--------------|-------------|--|
| 25 | 4140 - Other Upland Deciduous | High Density Pole | 3.0 | 80 | 51-80 | Nice birch stand with a few scattered bigtooth aspen. Core difficult to read but 80-85 yrs old. |
| 28 | 6112 - Lowland Aspen | High Density Pole | 118.4 | 34 | 51-80 | Quaking aspen stand with numerous wet swales. |
| 30 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 11.9 | 80 | | |
| 31 | 4140 - Other Upland Deciduous | High Density Pole | 23.0 | 80 | 1-50 | Wet areas within stand with tag alder and cattails. There is a Eagle nest located on the west edge of the stand in a large, old quaking aspen. |
| 34 | 4130 - Aspen | High Density Sapling | 4.5 | 5 | | Little aspen stand with some large white pine scattered about. |
| 36 | 4134 - Aspen, Spruce/Fir | High Density Pole | 8.5 | 34 | | Fades into lowland to the south. |
| 38 | 4191 - Mixed Upland Deciduous with Conifer | High Density Pole | 4.8 | 45 | 1-50 | |
| 39 | 6121 - Tamarack | High Density Pole | 2.7 | 90 | 51-80 | |
| 41 | 4125 - Black, N. Pin Oak | High Density Log | 10.8 | 95 | 1-50 | Oak stand that was treated last entry. Understory seems to be doing well. Cored 2 oaks that were 120 years old!. Leave oak overstory to "nurse" along white pine. Good visuals along M-76. |
| 42 | 4125 - Black, N. Pin Oak | High Density Log | 1.7 | 95 | 51-80 | |
| 43 | 4125 - Black, N. Pin Oak | High Density Pole | 26.1 | 32 | 1-50 | Stump sprout origin oak. |
| 44 | 4131 - Aspen, Oak | High Density Pole | 33.7 | 32 | 51-80 | Ridge of mature oak on south side just barely on the state land. |



| Stand | Cover Type | Acres | Gen Cmts: |
|-------|----------------------------|-------|---|
| 2 | 622 - Lowland Shrub | 6.7 | Some scattered aspen, tamarack etc. |
| 5 | 623 - Emergent Wetland | 10.7 | |
| 7 | 50 - Water | 3.7 | Flooded timber, active beaver pond. |
| 9 | 3102 - Grass | 25.4 | |
| 13 | 50 - Water | 6.2 | Borderline between being forested and non forested. Black ash in stand currently being attacked by EAB. |
| 15 | 6229 - Mixed lowland shrub | 15.1 | |
| 23 | 310 - Herbaceous Openland | 14.3 | Contains a small patch of invasive fragmites. |
| 24 | 622 - Lowland Shrub | 12.5 | |
| 26 | 623 - Emergent Wetland | 46.6 | |
| 27 | 50 - Water | 12.6 | Beaver pond |
| 29 | 50 - Water | 11.8 | Beaver pond |
| 32 | 50 - Water | 7.8 | |
| 33 | 122 - Road/Parking Lot | 9.0 | M-76 |
| 35 | 622 - Lowland Shrub | 73.1 | |
| 37 | 622 - Lowland Shrub | 17.2 | |
| 40 | 310 - Herbaceous Openland | 3.5 | Old barrow pit |
| 45 | 622 - Lowland Shrub | 11.1 | |



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 |
|-------|----------|----------|-------|----------|
| | | | | |



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. |
| 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. |