

CADILLAC FOREST MANAGEMENT UNIT



COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 027 ENTRY YEAR: 2011

Compartment Acreage (GIS Acres): 1,215 County: Osceola

Revision Date: 09/14/2009 2:51 PM

Stand Examiner: Cheryl Nelson, Forester

Legal Description: T19N R08W, sections 18, 29-32

RMU (if applicable): 315 (includes compartments 27-35)

Management Goals: Production of high quality timber as well as maintaining the aspen type and age class diversity.

Soil and Topography: Mostly well-drained Montcalm series (sandy loams). Terrain is gently rolling to steep moraines.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private ownership to the north and east of the compartment. State ownership to the south and west of the compartment with some private mixed in. Some farming nearby with a mixture of cabins and year-round homes. Many lakes used for various recreational opportunities in the area.

Unique, Natural Features (include only non-site specific and non-sensitive information): Forty acres of this compartment contains water frontage on Big Long Lake.

The Michigan Natural Features Inventory lists the Common Loon, Blanding's Turtle, as having occurred in this compartment. Historical records exist for Wood Turtle and Slippershell Mussel as having occurred in this compartment. This compartment has the potential for the Spotted Turtle, Blanding's Turtle, and Secretive Locust.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known.

Special Management Designations or Considerations: The roads in this area are very bad and efforts will continue to upgrade them. Visual management techniques will be followed where necessary.

Watershed and Fisheries Considerations: There are a few lakes and no streams in this compartment. There are no fisheries concerns with the proposals for this Compartment.

Wildlife Habitat Considerations: Priority wildlife species are deer and ruffed grouse. Original agreements in the Pere Marquette State Forest Plan for the nine compartments in this RMU called for no change in habitat types. Major management objectives are to maintain the aspen type and age class diversity. Numerous problems exist in this block of state forest land where oak stands are converting to red maple. (L. Smith, 8/14/09)

Mineral Resource and Development Concerns and/or Restrictions:

Sections 18 & 29 - 32, T19N-R8W

Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 600 and 1,000 feet. Beneath the glacial drift is the Pennsylvanian Saginaw Formation. The Saginaw is quarried for clay/shale for brick making in other parts of the State. There are gravel pits in this area, and potential is good. The compartment is located five miles to the east of Rose Lake Field. The field has produced nearly 2 million BO from the Devonian Traverse Limestone and gas from the Prairie du Chien. Most of the Compartment is leased for oil and gas development. Section 31 is also part of the nonmetallic potash nomination.

Vehicle Access: A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally. Proposed new roads or roads recommended for substantial improvement are noted below:

Survey Needs: None known.

Recreational Facilities and Opportunities: This area is used heavily for hunting, camping, fishing (on accessible lakes), and ORV trail riding. Snowmobiling, horseback riding, berry and mushroom picking are known to occur in this compartment. There is a designated State campground near this compartment.

Fire Protection: This area is mostly aspen & hardwoods. Much of the state owned land within the compartment would allow for good access for suppression equipment. However, there are numerous small private parcels within the compartment, which adds to the human causes, and elevates the urban interface concerns.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) 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 27
 T19N, R08W, Sec. 18, 29-32
 County: Osceola
 Unit: Cadillac
 YOE: 2011
 Acres: 1,215 GIS Calculated
 Stand Examiner: Cheryl Nelson
 Map Revised: 9/14/2009
 Map Phase: Pre-Review

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

Legend

- Miris Corners
- Paved Road
- Trails
- Motorcycle Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)
- Prescribed Burn

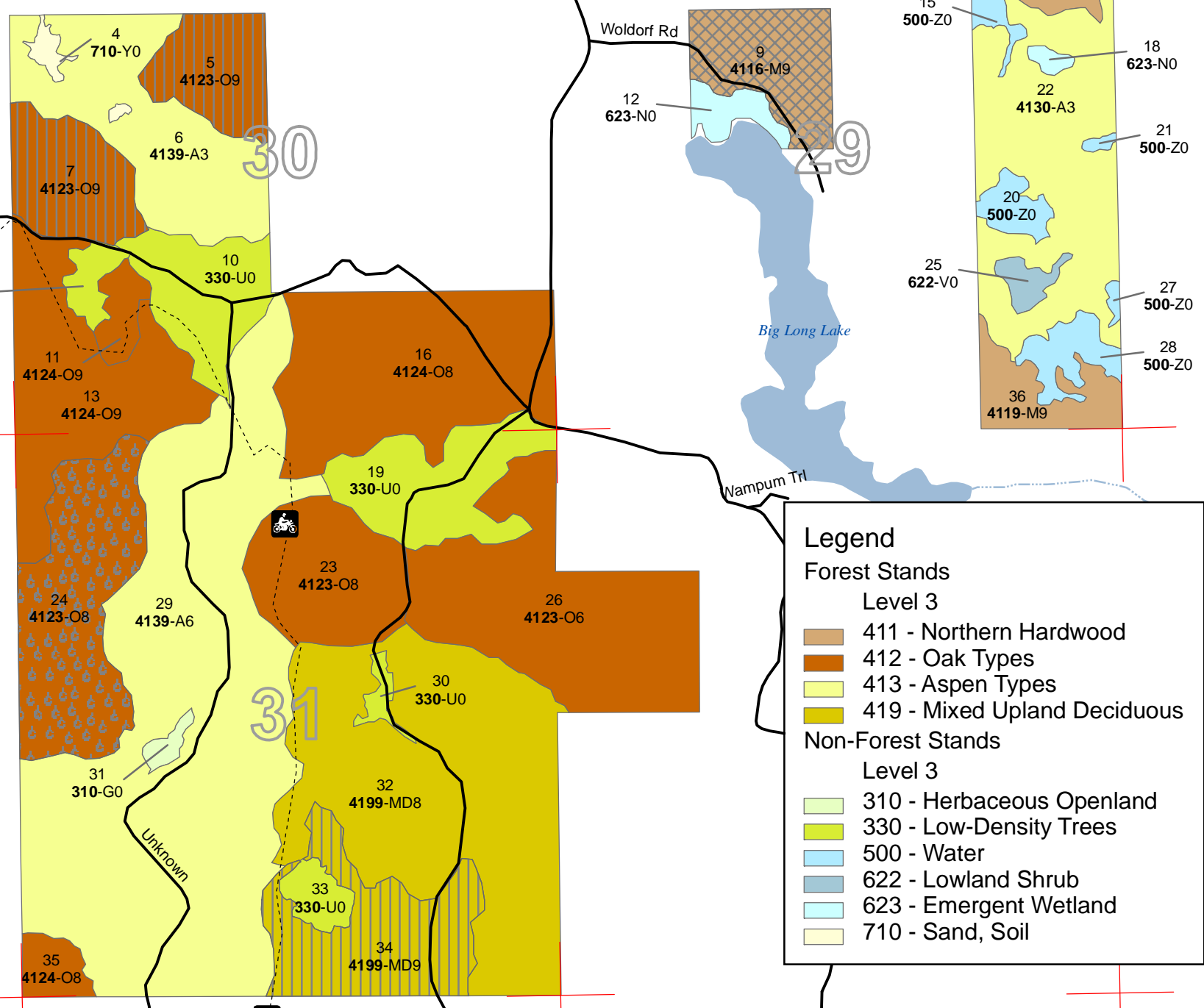
18

30 29

31 32

N

DEPARTMENT OF NATURAL RESOURCES
 DNR
 MICHIGAN



Legend

Forest Stands

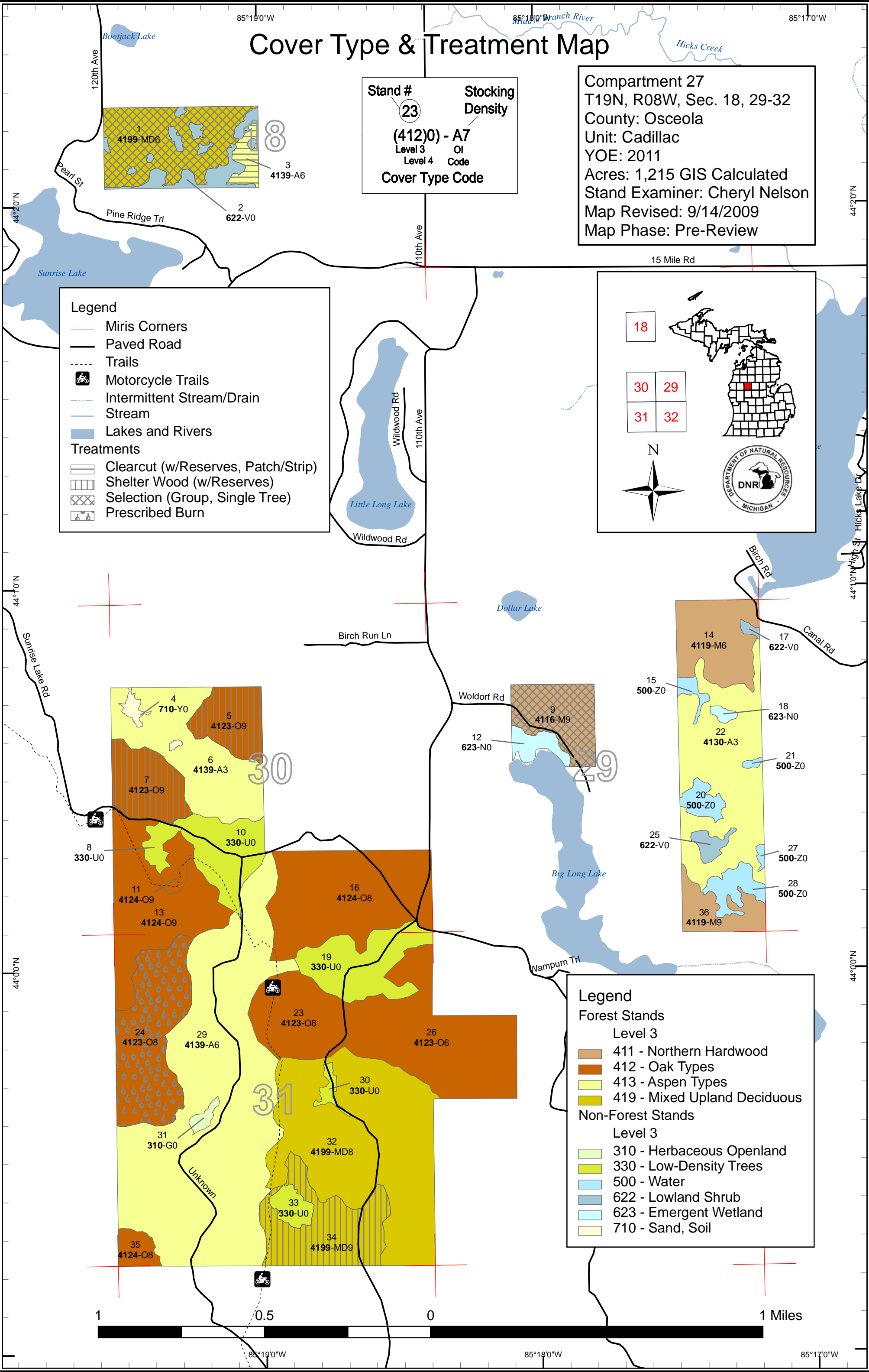
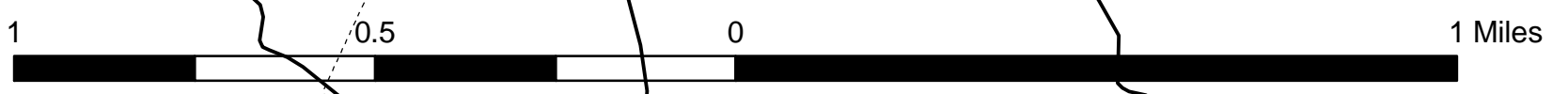
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil



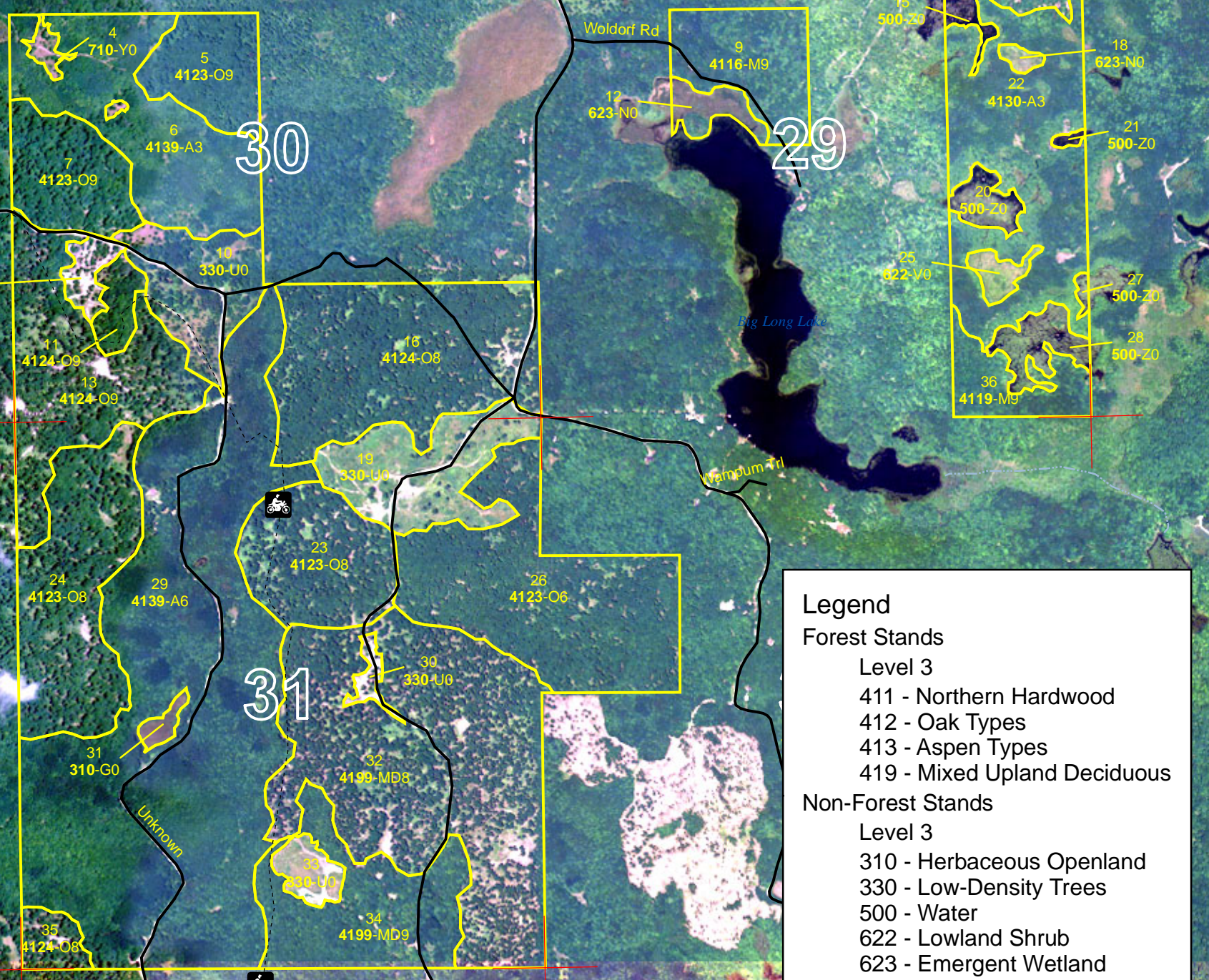
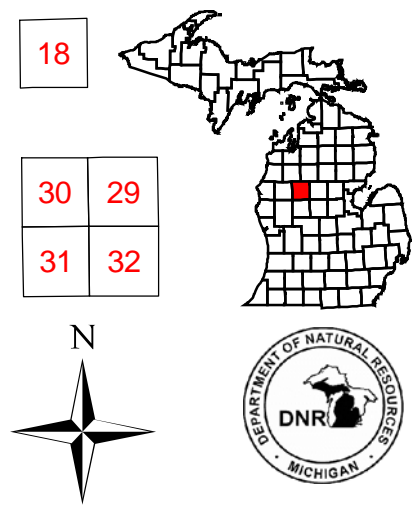
Stand Boundary Map

Stand # **23**
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Legend

- Miris Corners
- Paved Road
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
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- Stand Boundaries



Legend

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Dedicated & Proposed Special Conservation Area Map

85°19'0"W

85°18'0"W

85°17'0"W

44°20'N

44°20'N

44°10'N

44°10'N

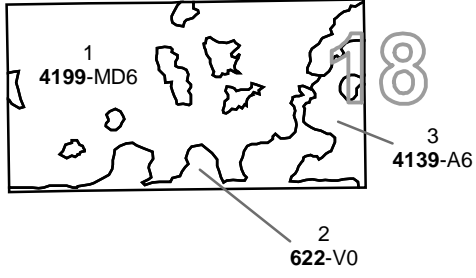
44°00'N

44°00'N

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

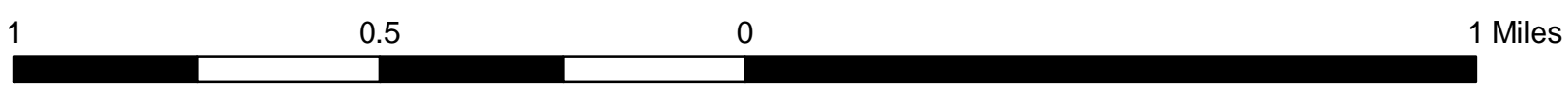
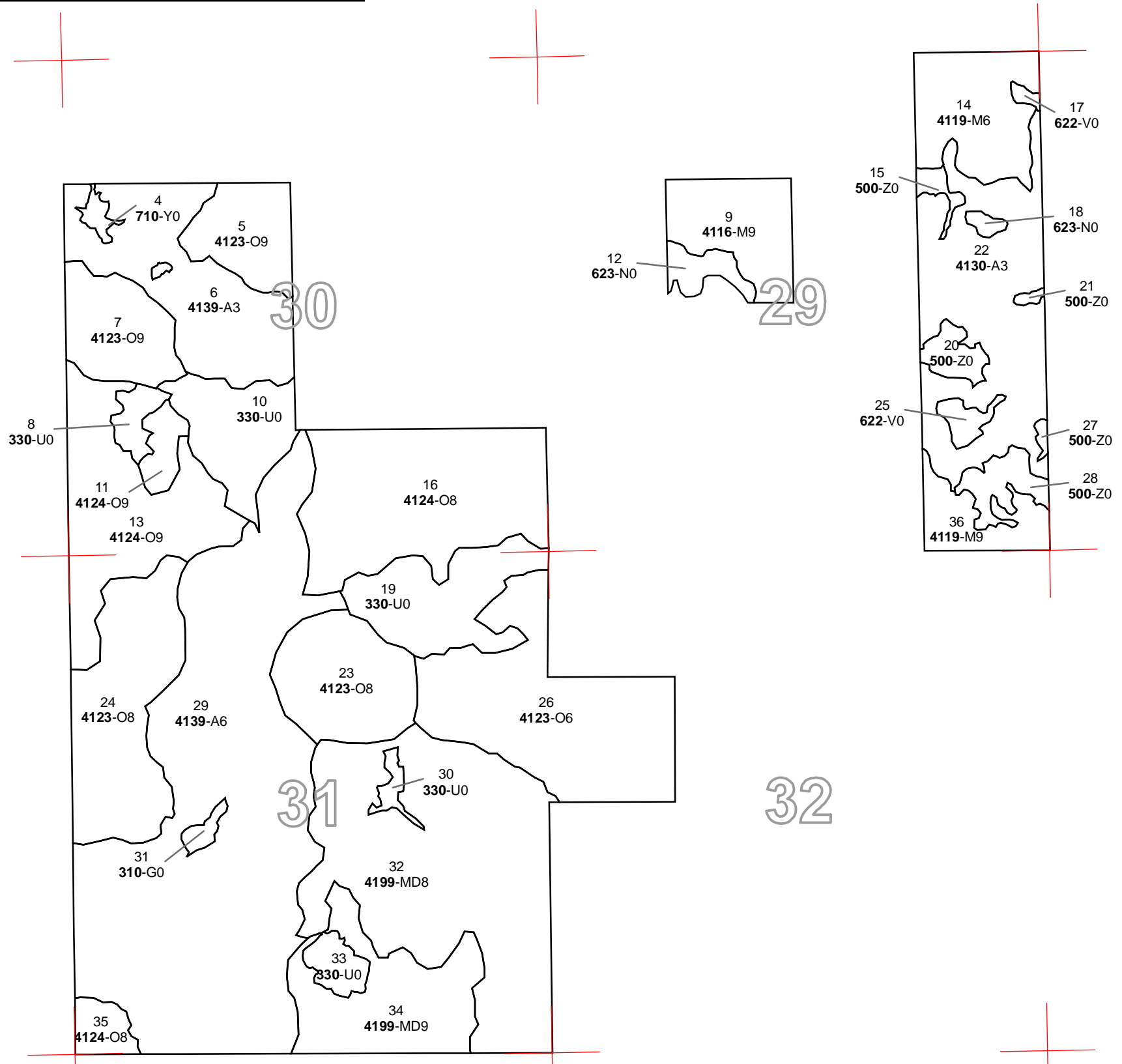
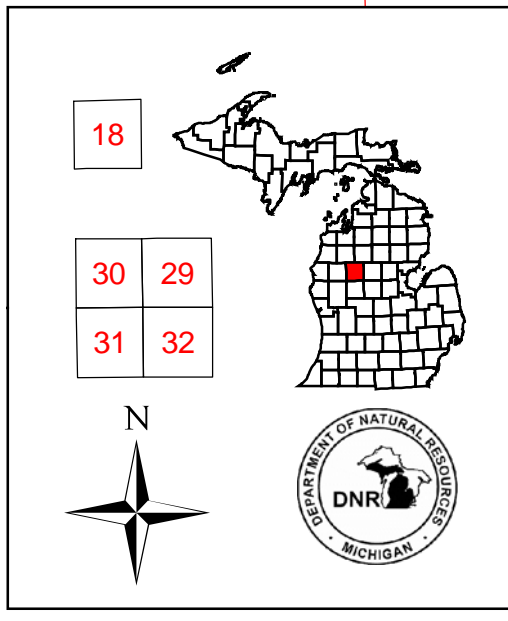
Stocking Density
OI
Code

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Legend

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85°19'0"W

85°18'0"W

85°17'0"W

44°00'N

44°00'N

Cadillac Mgt. Unit

Covertypes, Acres, and Age summary
(Level 3 Cover Type)

Compartment 027 Year of Entry 2011

Report Date: 09/14/2009



	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 Types	0	0	60	78	224	0	0	7	0	0	0	0	0	0	0	369
Emergent Wetland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Low-Density Trees	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
Lowland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	0	0	0	0	0	50	0	183	0	0	0	0	0	233
Northern Hardwood	0	0	0	0	0	0	0	0	0	29	53	0	0	0	0	82
Oak Types	0	0	0	0	0	0	0	0	0	172	75	144	0	0	0	391
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Total	140	0	60	78	224	0	0	56	0	384	129	144	0	0	0	1215

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
1 63027001-Cut	49.9	4199 - Other Mixed Upland Deciduous	High Density Pole	60	Harvest	Single Tree Selection	Other Mixed Upland Deciduous

Rev
Cmnt:

Rev Cut all species in aspen zones. Cut all red maple. Thin in hardwood stands to an average BA of 70.

Spec

Next

Steps:

3 63027003-Cut	6.6	4139 - Aspen, Mixed Deciduous	High Density Pole	60	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous
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Rev Use sale to block illegal ORV trails.

Cmnt:

Rev Cut all species. Reserve area will be retention. Focus retention along drainage.

Spec

Next

Steps:

5 63027005-Cut	23.6	4123 - Red Oak	High Density Log	85	Harvest	Shelterwood	Red Oak
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Rev Most aspen and red maple were cut out in 1992.

Cmnt:

Rev Cut all aspen and red maple. Thin to an average BA of 80-90.

Spec

Next

Steps:

7 63027007-Cut	27.6	4123 - Red Oak	High Density Log	85	Harvest	Shelterwood	Red Oak
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Rev Possibly burn pre-harvest.

Cmnt:

Rev Remove all red maple. Thin rest of stand to an average of 30-40 BA.

Spec

Next

Steps:

9 63027009-Cut	29.3	4116 - Mixed N. Hardwood - Aspen	High Density Log	83	Harvest	Single Tree Selection	Mixed N. Hardwood - Aspen
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Rev Red maple mostly in clumps. Trace of hemlock, beech, white birch.

Cmnt:

Rev Cut all trees in aspen zones. Thin in hardwood areas to an average BA of 110.

Spec

Next

Steps:

34 63027034-Cut	46.7	4199 - Other Mixed Upland Deciduous	High Density Log	80	Harvest	Shelterwood	Other Mixed Upland Deciduous
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Rev
Cmnt:

Rev Cut all aspen and red maple. Thin to an average BA of 40.

Spec

Next

Steps: Possibly burn.

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
24 63027024-Burn	59.5	4123 - Red Oak		100	Prescribed Burn	Unspecified	Red Oak

Rev
Cmnt:

Rev Burn to set red maple regen back.
Spec

Next
Steps:

**Total Treatment
Acreage Proposed: 243.3**



**PROPOSED TREATMENTS
WITH LIMITING FACTORS**



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Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 1
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Limiting Factor
and Comment:

Rev
Cmnt:

Rev
Spec:

Next
Steps:

No Treatment
Reason

**Total Treatment
Acreage Proposed: 0**



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.

Inventory Method: IFMAP

Stand	SCA Name	Acres	Comments



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
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