

CADILLAC FOREST MANAGEMENT UNIT**COMPARTMENT REVIEW PRESENTATION****COMPARTMENT # 123 ENTRY YEAR : 2011****Compartment Acreage (GIS Acres): 2037 County: Missaukee**

Revision Date: 09/14/2009 2:32 PM**Stand Examiner:** Steven Eisele, Forest Technician.**Legal Description:** T24N, R7W, Sections 7, 8, 9, 10.**RMU (if applicable):** 231.**Management Goals:** Maintain a variety of age classes. Continue to develop quality in the hardwood and oak stands. Convert some of the jack pine areas to red pine.**Soil and Topography:** Mostly rubicon sands with some Croswell. Terrain varies from flat to very hilly.**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Private land in every section except 9. Lands listed for private access include section 7 N1/2 NENE and N1/2 SW. There is a large block of private land in section 8 owned by one landowner and the SE1/4 of section 10 that is broken up into 10 acre parcels. No development in the compartment except private residences in section 10. Recreation includes the Miss. Kal. snowmobile and ORV trail. State highway M66 runs north/south along sections 8 and 9 boundary.**Unique, Natural Features (include only non-site specific and non-sensitive information):** Potential for red-shouldered hawk and northern goshawk.**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):****Special Management Designations or Considerations:****Watershed and Fisheries Considerations:** There is no flowing water in compartment.**Wildlife Habitat Considerations:** Priority wildlife species are deer, ruffed grouse, and woodcock. Major management objectives are to maintain a variety of cover types and age classes which favor a variety of game and non-game species. (L. Smith, 9/11/09)

Mineral Resource and Development Concerns and/or Restrictions: Sections 7 - 10, T24N-R7W, Missaukee County

Surface sediments consist of an end moraine of coarse-textured till, ice-contact and 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 Formation is quarried for gypsum in other areas of the State. A gravel pit is located in Section 18 to the south and potential is good. The nearest production is the Guelph (Niagaran) reef trend twelve miles to the northwest. The entire Compartment was leased at the 2008 lease auctions.

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

Recreational Facilities and Opportunities: The Miss. Kal snowmobile trail runs through sections 7 and 8 then turns north through the middle of section 9. The ORV trail also runs through the same sections and runs parallel to the snowmobile trail in many spots. There is no water or campground within the compartment.

Fire Protection: This compartment is mostly aspen & oak, with scattered areas of pine. There are areas of urban interface, throughout the compartment. Access would be fairly good for suppression equipment. IA is from the Manton FO, and response times would be 30 minutes for longer.

Additional Compartment Information:

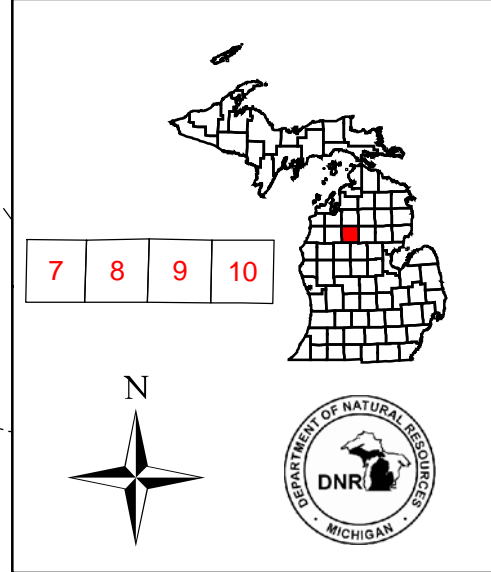
➤ **The following 5 reports from the Operations Inventory System (OIPC) are attached:**

- ◆ **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**

Compartment 123
 T24N, R07W, Sec. 7-10
 County: Missaukee
 Unit: Cadillac
 YOE: 2011
 Acres: 2,037 GIS Calculated
 Stand Examiner: Steve Eisele
 Map Revised: 9/11/2009
 Map Phase: Pre-Review



Cover Type & Treatment Map

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

Legend

- Miris Corners
- County Paved Road
- Paved Road
- County Gravel Road
- Poor Dirt Road
- State Highway
- Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- ORV Routes
- Motorcycle Trails
- Snowmobile Trails

Treatments

- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)

Forest Stands

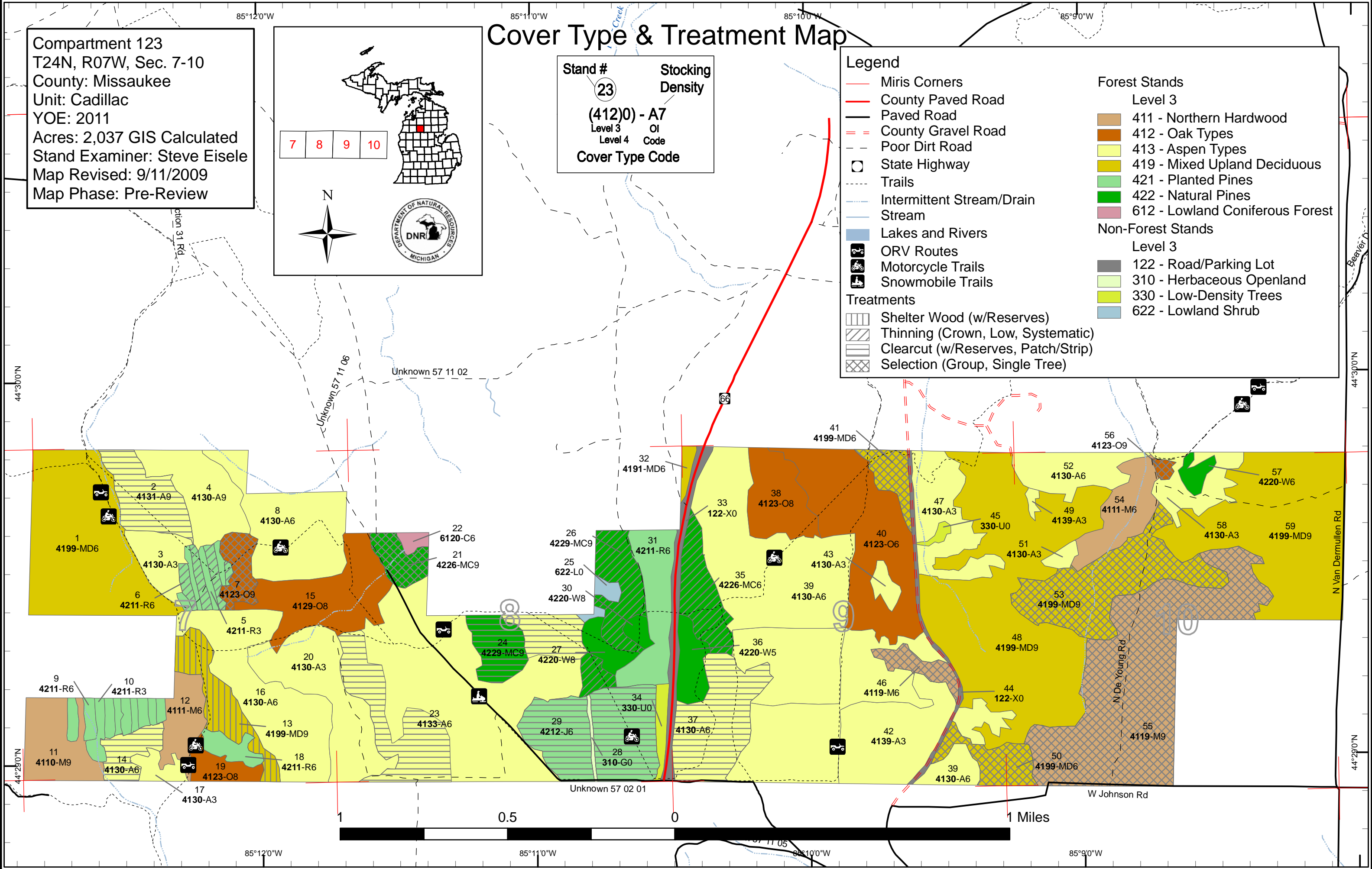
Level 3

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

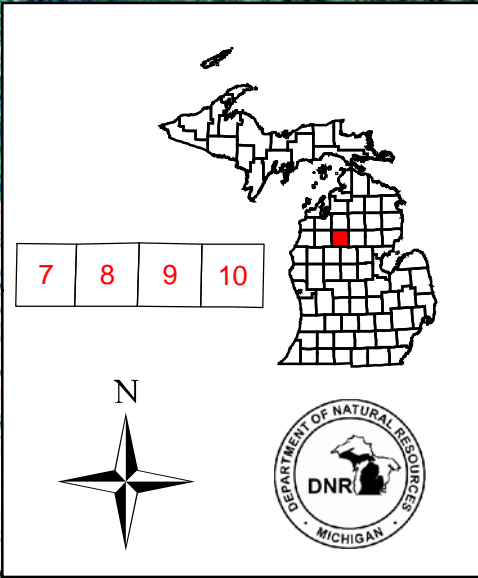
Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub



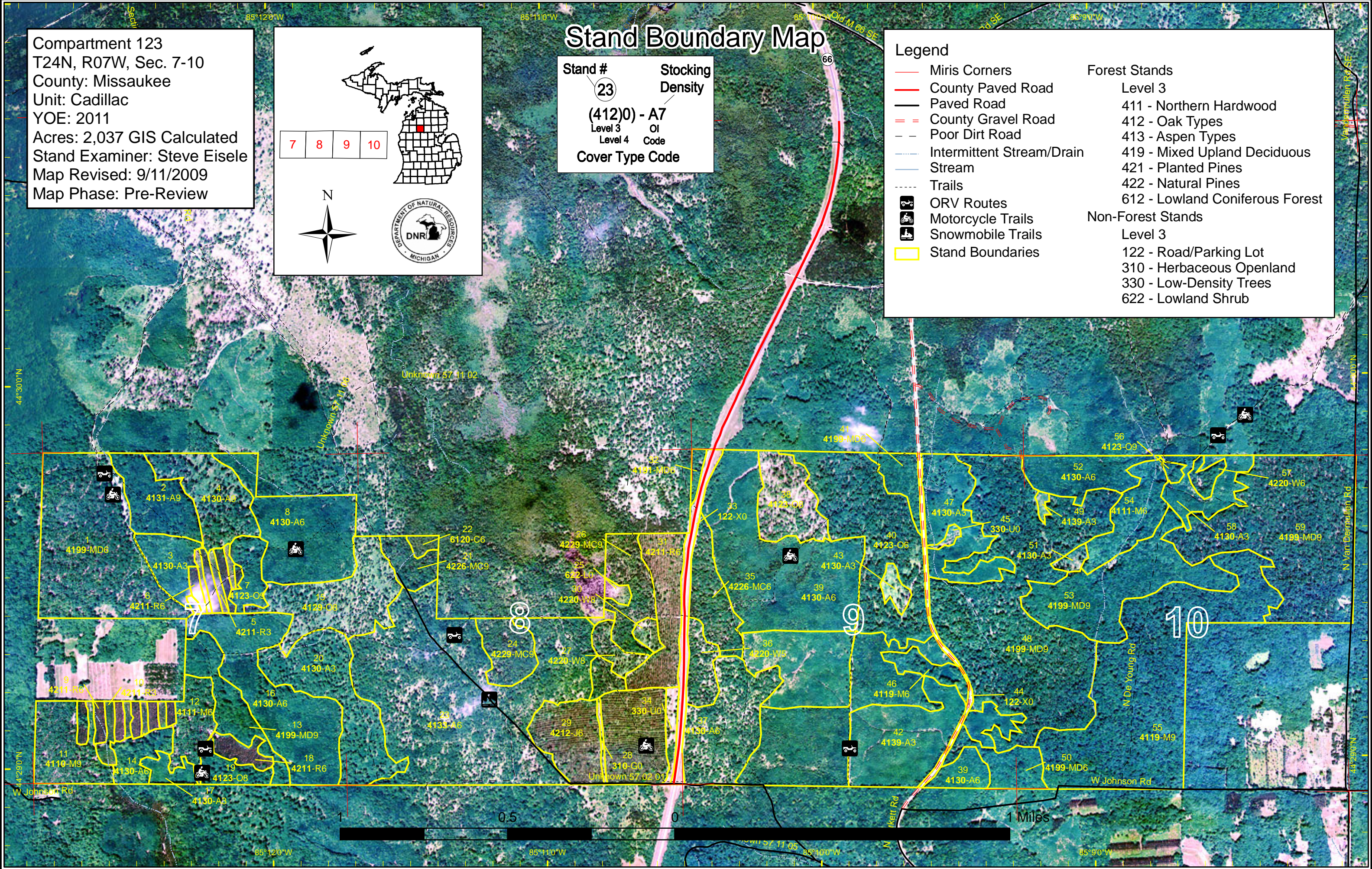
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Stand Boundary Map

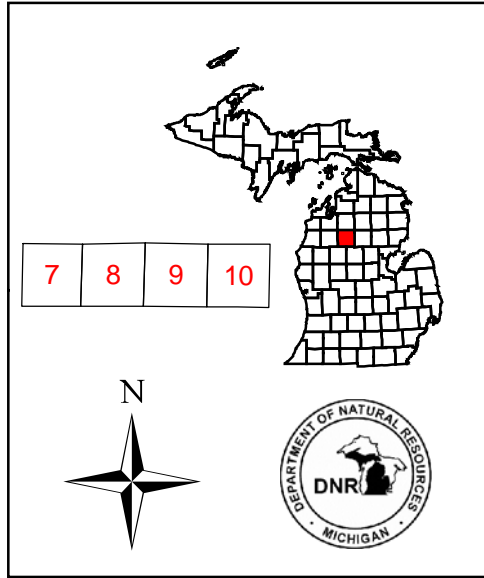
Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

- Legend**
- Miris Corners
 - County Paved Road
 - Paved Road
 - County Gravel Road
 - - - Poor Dirt Road
 - Intermittent Stream/Drain
 - Stream
 - Trails
 - ORV Routes
 - Motorcycle Trails
 - Snowmobile Trails
 - Stand Boundaries
- Forest Stands**
- Level 3
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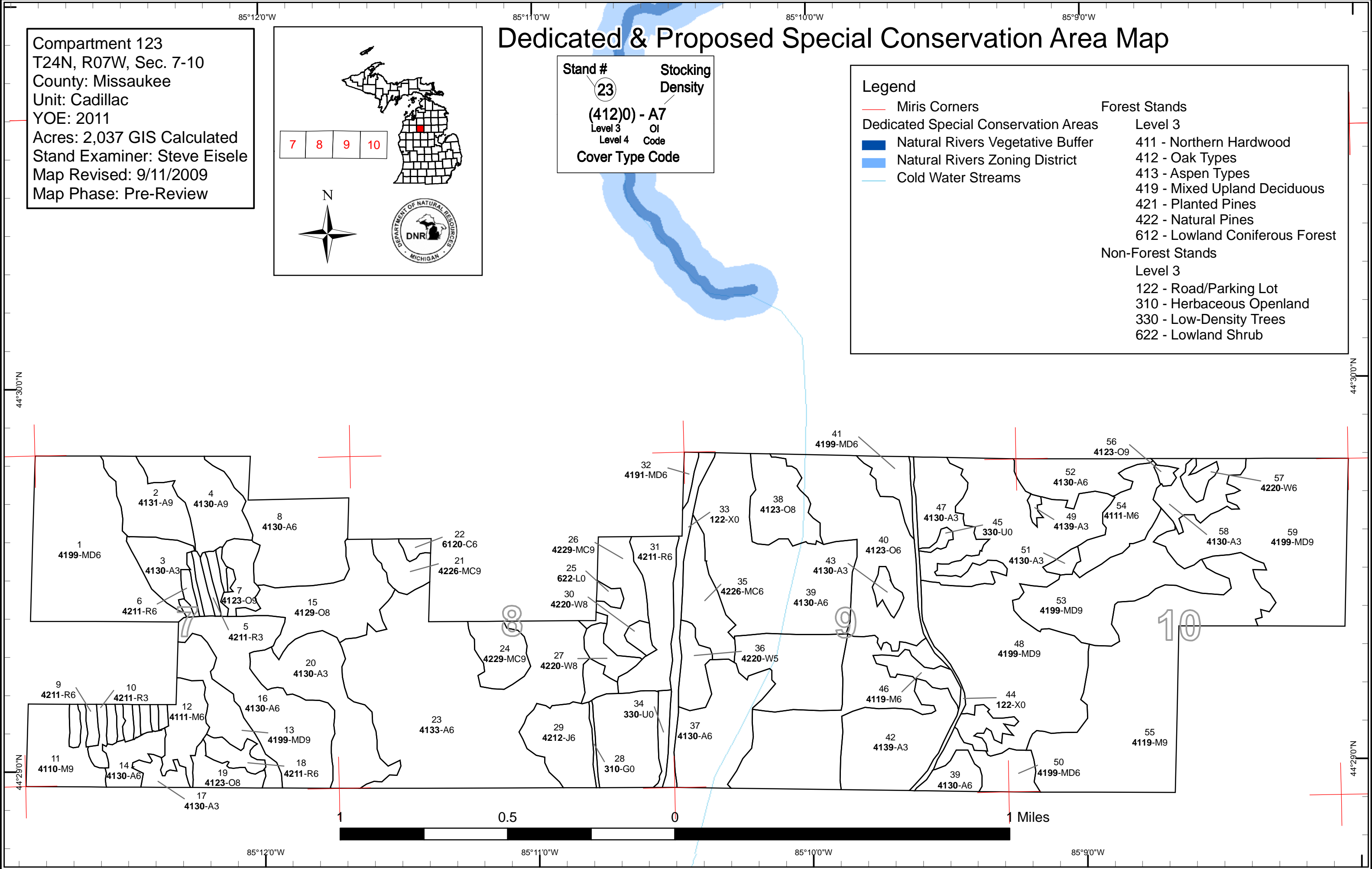
Dedicated & Proposed Special Conservation Area Map

Compartment 123
 T24N, R07W, Sec. 7-10
 County: Missaukee
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Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

- Legend**
- Miris Corners
 - Dedicated Special Conservation Areas
 - Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - Cold Water Streams
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 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
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Cadillac Mgt. Unit

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

Compartment 123 Year of Entry 2011

Report Date: 09/11/2009



	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	38	165	341	0	0	225	0	27	0	0	0	0	0	64	859
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Coniferous Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	496	496
Natural Pines	0	0	0	0	0	13	0	0	0	0	0	0	0	0	98	111
Northern Hardwood	0	0	0	0	0	0	0	25	0	28	0	0	0	0	168	222
Oak Types	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173	173
Planted Pines	0	0	15	0	0	62	60	0	0	0	0	0	0	0	0	137
Road/Parking Lot	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Total	38	38	180	341	0	74	285	25	27	28	0	0	0	0	1001	2037

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 3

2	63123002-Cut	26.9	4131 - Aspen, Oak	High Density Log	70	Harvest	Clearcut with Reserves	Aspen, Oak
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Rev
Cmnt:
Rev final harvest, leave 10 to 20 ba oak hilly terrain buffer orv trail on east side
Spec:
Next
Steps:

6	63123006-Cut	9.8	42110 - Planted Red Pine	High Density Pole	52	Harvest	Systematic Thinning	Planted Red Pine
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Rev hilly terrain straight rows
Cmnt:
Rev do a second thin
Spec:
Next
Steps:

7	63123007-Cut	12.1	4123 - Red Oak	High Density Log	85	Harvest	Single Tree Selection	Red Oak
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Rev north part of stand has more open grown wolffy trees and hilly terrain
Cmnt:
Rev do a selection cut release pole size oak and maple
Spec:
Next
Steps:

13	63123013-Cut	24.3	4199 - Other Mixed Upland Deciduous	High Density Log	80	Harvest	Shelterwood	Other Mixed Upland Deciduous
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Rev hilly terrain good sugar maple understory
Cmnt:
Rev do a selection cut remove aspen
Spec:
Next
Steps:

14	63123014-Cut	12.7	4130 - Aspen	High Density Pole	55	Harvest	Clearcut with Reserves	Aspen
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Rev
Cmnt:
Rev final harvest leave oak and some straight stem maple
Spec:
Next
Steps:

21	63123021-Cut	11.6	42260 - Natural Pine, Mixed Deciduous	High Density Log	80	Harvest	Single Tree Selection	Natural Pine, Mixed Deciduous
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Rev
Cmnt: natural pine wet ground
Rev Remove aspen red maple, thin pine. Take all pine in the areas heavier to aspen.
Spec:
Next
Steps:

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 2 of 3
23	63123023I-Cut	55.5	4133 - Aspen, Mixed Pine	High Density Pole	50	Harvest	Clearcut	Aspen	
<u>Rev</u>	Put in sale specs that this is NOT a winter cut. No use of snowmobile trail during winter season.								
<u>Cmnt:</u>									
<u>Rev</u>	Clearcut with no retention.								
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
24	63123024-Cut	17.5	42290 - Natural Mixed Pine	High Density Log	80	Harvest	Clearcut with Reserves	Natural Mixed Pine	
<u>Rev</u>	super canopy white pine over mixed pine and deciduos								
<u>Cmnt:</u>									
<u>Rev</u>	final harvest leave pine less than 8 inches dbh								
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
26	63123026-Cut	29.0	42290 - Natural Mixed Pine	High Density Log	80	Harvest	Crown Thinning	Natural Pine, Mixed Deciduous	
<u>Rev</u>	mixed pine with low wet areas.								
<u>Cmnt:</u>									
<u>Rev</u>	,mark to cut sawlog remove deciduos								
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
29	63123029-Cut	61.7	42120 - Planted Jack Pine	High Density Pole	48	Harvest	Clearcut	Planted Jack Pine	
<u>Rev</u>	third row thinned last time no regen over snow orv trail in stand								
<u>Cmnt:</u>									
<u>Rev</u>	have tms look at for final decision								
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
35	63123035-Cut	23.1	42260 - Natural Pine, Mixed Deciduous	High Density Pole	50	Harvest	Crown Thinning	Natural Pine, Mixed Deciduous	
<u>Rev</u>	remove sawlog timber release red and white pine								
<u>Cmnt:</u>									
<u>Rev</u>									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
37	63123037-Cut	46.0	4130 - Aspen	High Density Pole	56	Harvest	Clearcut with Reserves	Aspen	
<u>Rev</u>	Buffer trail. Check with recreation for help if needed on trail. Mark green or distance away from trail								
<u>Cmnt:</u>									
<u>Rev</u>	final harvest leave some small islands for retention								
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 3 of 3
41	63123041-Cut	11.2	4199 - Other Mixed Upland Deciduous	High Density Pole	80	Harvest	Single Tree Selection	Other Mixed Upland Deciduous	
<u>Rev</u> hardwoods mixed with sawlog oak. buffer orv and snow trail									
<u>Cmnt:</u>									
<u>Rev</u> do a selection cut removing defect and some of the large oak take all aspen and ironwood									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
46	63123046-Cut	9.4	4119 - Mixed Northern Hardwoods	High Density Pole	80	Harvest	Single Tree Selection	Mixed Northern Hardwoods	
<u>Rev</u> hardwoods sorrounded by recent clear cuts hilly terrain									
<u>Cmnt:</u>									
<u>Rev</u> do a selection cut favor sugar maple									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
50	63123050-Cut	16.6	4199 - Other Mixed Upland Deciduous	High Density Pole	80	Harvest	Single Tree Selection	Other Mixed Upland Deciduous	
<u>Rev</u> lower quality, mixed. some of this has marks from last time and never got cut. hilly terrain									
<u>Cmnt:</u>									
<u>Rev</u> do a selection cut. Cut all aspen, mark a few to leave for soft snags									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
53	63123053-Cut	59.9	4199 - Other Mixed Upland Deciduous	High Density Log	80	Harvest	Single Tree Selection	Mixed Northern Hardwoods	
<u>Rev</u> good quality hardwoods									
<u>Cmnt:</u>									
<u>Rev</u> do a selection cut favor sugar maple									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
55	63123055-Cut	140.6	4119 - Mixed Northern Hardwoods	High Density Log	80	Harvest	Single Tree Selection	Mixed Northern Hardwoods	
<u>Rev</u> thick understory of maple and beech healthy sawlog stand									
<u>Cmnt:</u>									
<u>Rev</u> mark sawlog oak ash and basswood down to 70 or 80 basal area no chipping leave tops									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									
56	63123056-Cut	1.9	4123 - Red Oak	High Density Log	80	Harvest	Single Tree Selection	Red Oak	
<u>Rev</u> New stand added. small acreage oak and white pine stand orv trail									
<u>Cmnt:</u>									
<u>Rev</u> remove overtopping oak and white pine									
<u>Spec:</u>									
<u>Next</u>									
<u>Steps:</u>									

**Total Treatment
Acreage Proposed: 569.8**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**



S
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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
SCA	Potential Old Growth Areas	This category contains stands were identified for a broad range of reasons and were coded in the OI database as stand condition 8 as potential old growth (POG). Approximately 310,000 acres have been identified through the Operations Inventory (OI)/Compartment Review process. For stands in Year of Entry 2008 and forward, potential old growth is managed for the identified objective until it is: 1) vetted through the Biodiversity Conservation Planning Process (BCPP) and given a specific designation and objective (as an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation; or 2) it is released from the potential old growth designation via the Compartment Review process.