

CADILLAC FOREST MANAGEMENT UNIT



COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 140 ENTRY YEAR: 2011

Compartment Acreage (GIS Acres): 2144 County: Wexford

Revision Date: 09/14/2009 10:31 AM

Stand Examiner: Andrew Church, Forester.

Legal Description: T23N, R9W, Sections, 25-27,34-36.

RMU (if applicable): 238.

Management Goals: Maintain species diversity and age classes.

Soil and Topography: Mostly Rubicon and Montcalm. Some Tawas and Lupton in wet areas. Hilly, mostly upland with some lowland areas mixed throughout.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Surrounded by private land, with Wexford County landfill to the immediate west. A lot of recreation activities in and around this compartment. Hunting, horseback riding, ORV/Cycle use. Long lake campground just to the south. Every section contains segments of the Long lake ORV loop, this will impact some of the timber sale boundaries and lay out.

Unique, Natural Features (include only non-site specific and non-sensitive information): The landforms in this area are unique in that you range from hilly oak, aspen, pine areas to lowland types.

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

Special Management Designations or Considerations: This compartment has many areas that have been underplanted with red and white pine. This presents some interesting challenges for management. Wexford County landfill has plastic and paper trash blowing into West side of compartment.

Watershed and Fisheries Considerations: Various water types but no lakes or streams.

Wildlife Habitat Considerations: Priority wildlife species are deer and ruffed grouse. 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 25 - 27 & 34 – 36, T23N-R9W, Wexford County Surface sediments consist of an end moraine of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Pennsylvanian Saginaw Formation. The Saginaw is quarried for clay in brick making. Gravel pits are located in the area and there should be potential. This area is located eleven miles southeast of the prolific Silurian Guelph (Niagaran) reef trend. Oil and gas has limited potential in the Compartment and only a few parcels are leased for oil and gas exploration. Most of this Compartment is 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: Interior of Section 36 needs survey due to encroaching private.

Recreational Facilities and Opportunities: The Long Lake ORV trail runs throughout the compartment. There is an ORV parking lot in Section 34. The horse trail runs North/South through the middle of the compartment and receives a lot of use.

Fire Protection: There are areas of urban interface within the compartment. Areas of pine are scattered throughout the compartment. Access would be fairly good for suppression equipment. IA is from the Manton FO, and response times should be fairly good.

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**

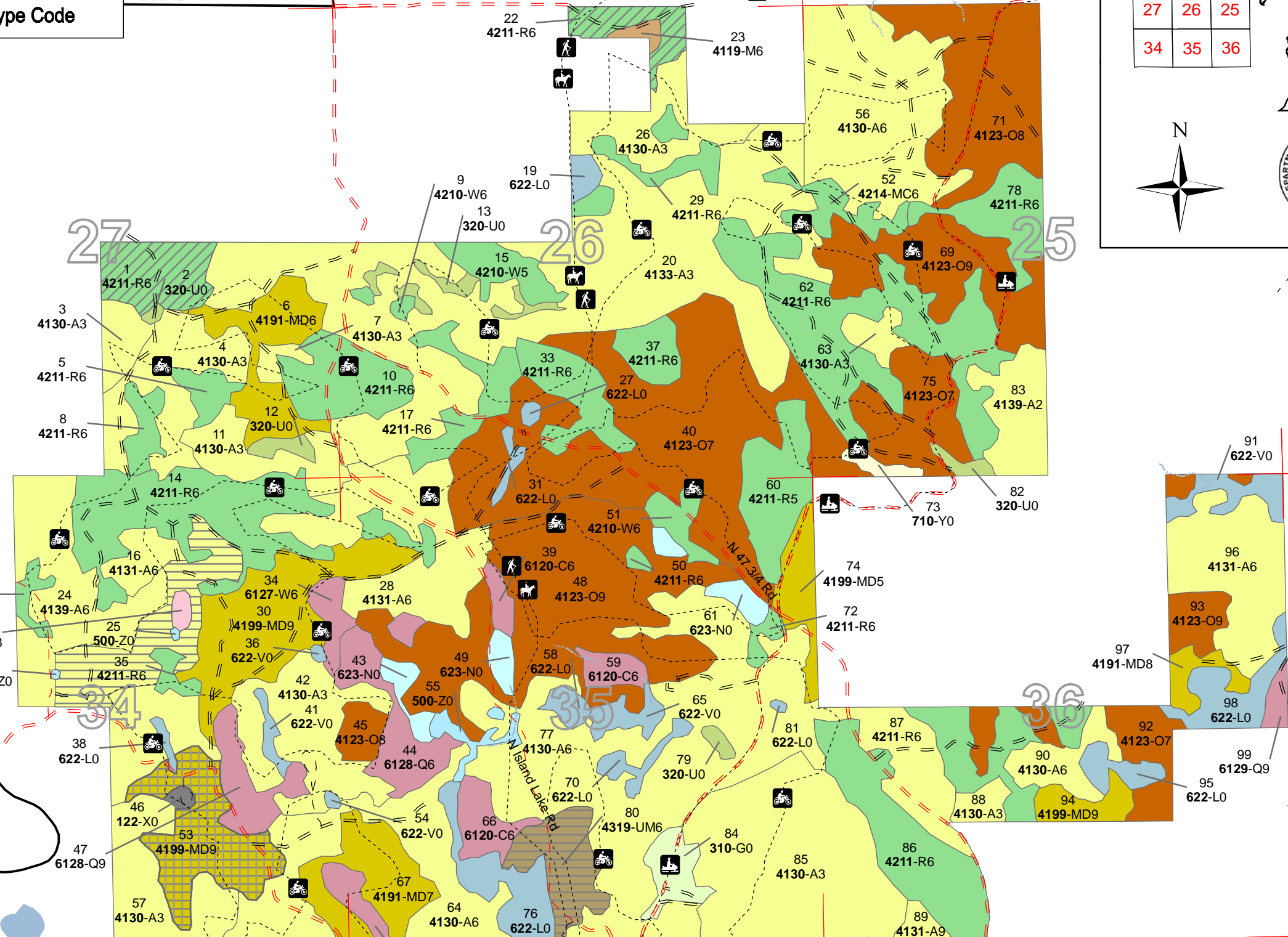
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

Cover Type & Treatment Map

Compartment 140
 T23N, R09W, Sec. 25-27, 34-36
 County: Wexford
 Unit: Cadillac
 YOE: 2011
 Acres: 2,144 GIS Calculated
 Stand Examiner: Andy Church
 Map Revised: 9/14/2009
 Map Phase: Pre-Review

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

- Legend**
- Miris Corners
 - Highways
 - Paved Road
 - County Gravel Road
 - Gravel Road
 - County Poor Dirt Road
 - Poor Dirt Road
 - Trails
 - US Highway
 - Motorcycle Trails
 - Snowmobile Trails
 - Hiking Trails
 - Horse Trails
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
 - Seed Tree (w/Reserves)
 - Thinning (Crown, Low, Systematic)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 710 - Sand, Soil



Inset map of Michigan showing the location of the study area in the western part of the state. A grid highlights sections 25, 26, 27, 34, 35, and 36.

North arrow and Michigan Department of Natural Resources (DNR) logo.

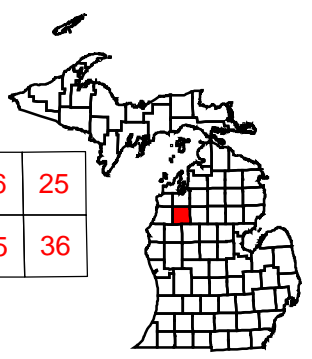


Stand Boundary Map

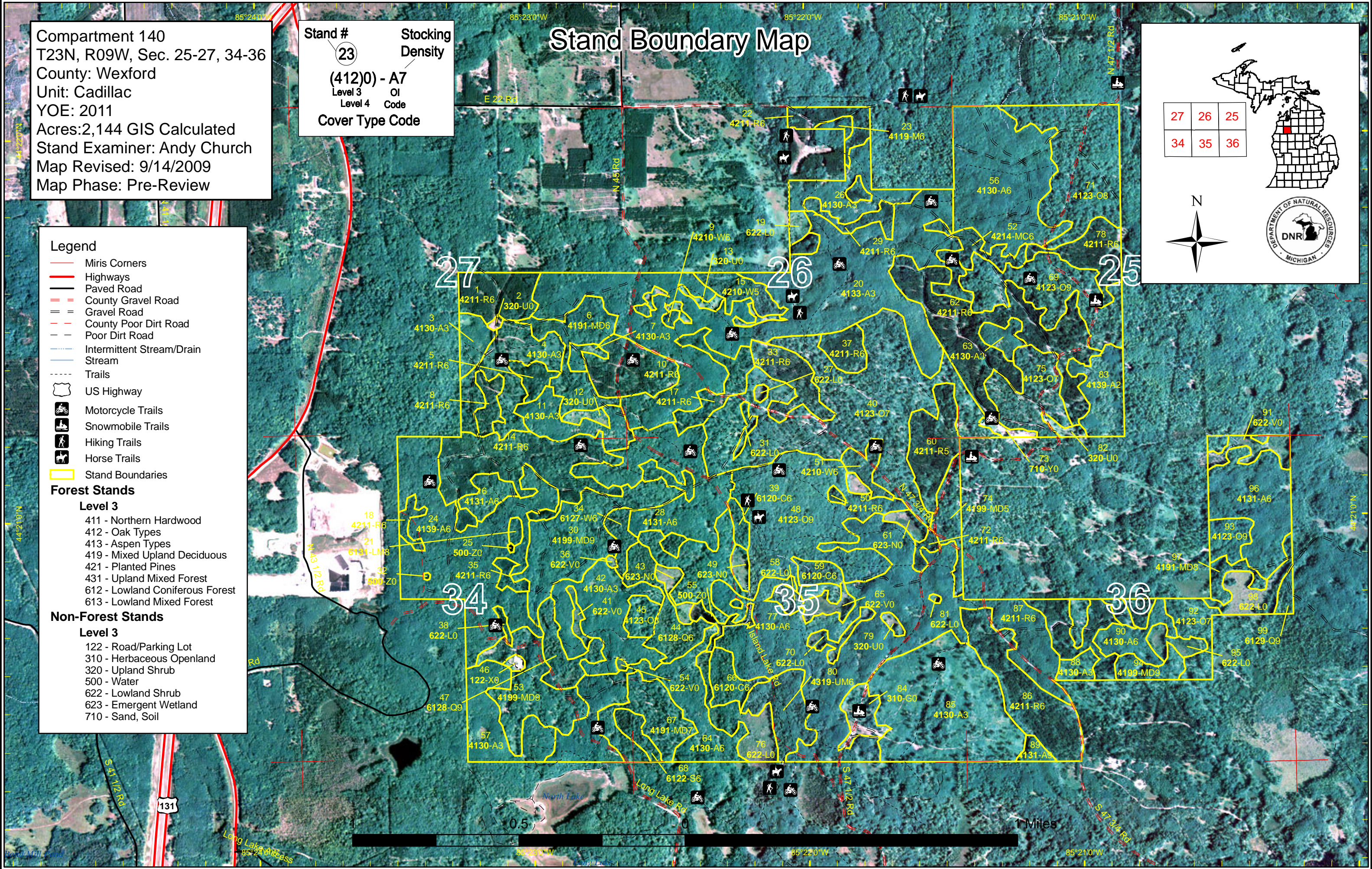
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Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

27	26	25
34	35	36



- Legend**
- Miris Corners
 - Highways
 - Paved Road
 - = County Gravel Road
 - = Gravel Road
 - - County Poor Dirt Road
 - - Poor Dirt Road
 - Intermittent Stream/Drain
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131

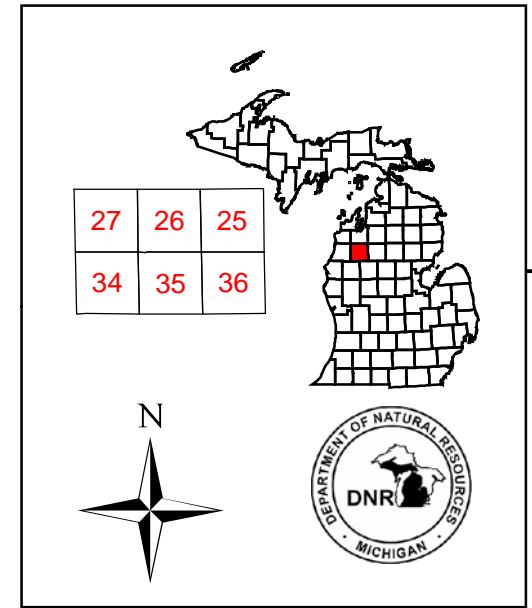
1 Miles

0.5

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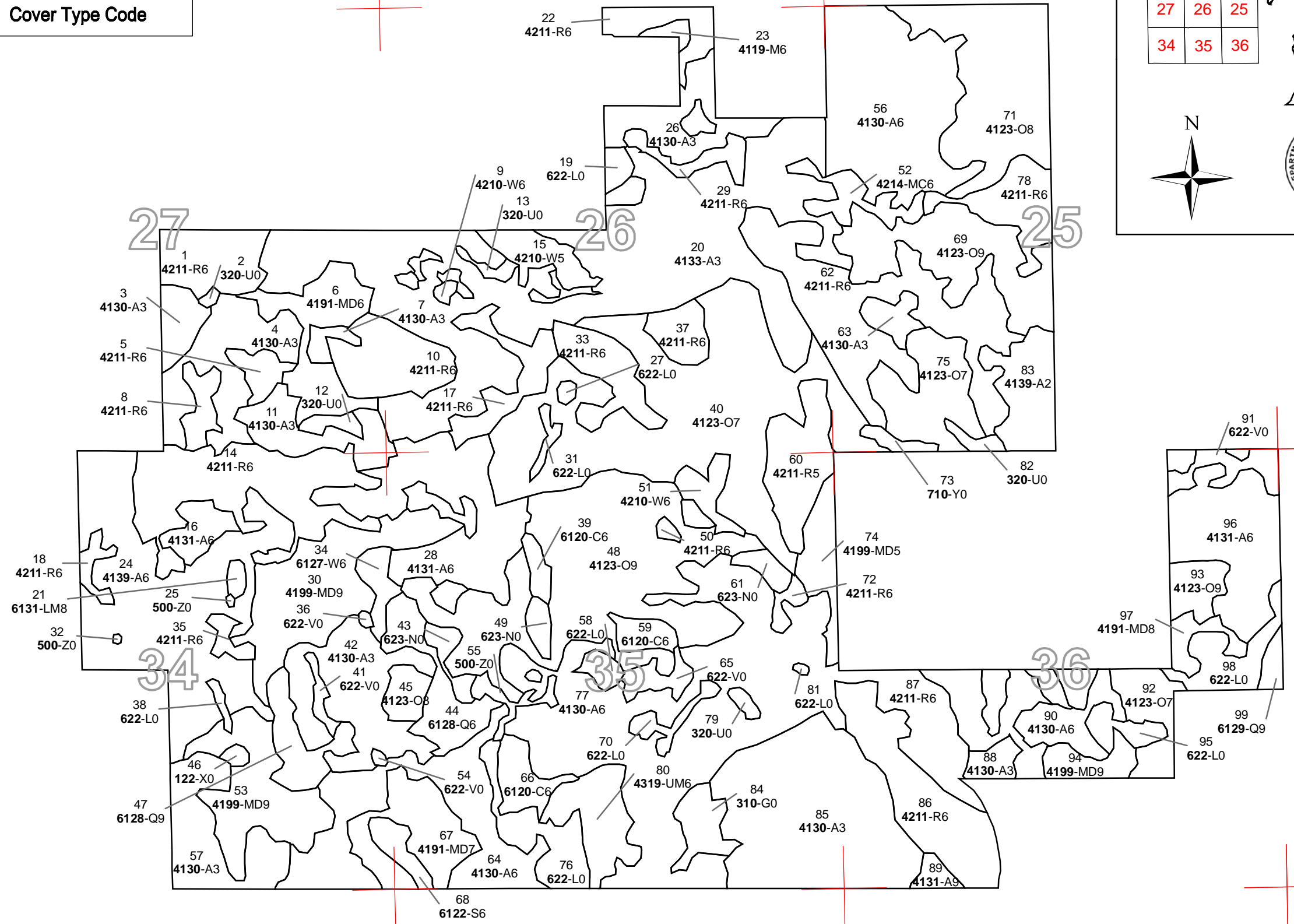
Stand #
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 Stocking
 Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Dedicated & Proposed Special Conservation Area Map



Legend

- Miris Corners
- Stand Boundaries
- Dedicated Special Conservation Areas
- IFMAP Special Conservation Areas
- Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 412 - Oak Types
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85°24'0"W 85°23'0"W 85°22'0"W 85°21'0"W

44°22'0"N

44°21'0"N

44°21'0"N

Cadillac Mgt. Unit

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

Compartment 140 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	122	149	179	352	96	0	3	0	0	0	0	0	0	60	961
Emergent Wetland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Coniferous Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	71
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Lowland Shrub	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	26	56	41	0	0	0	39	161
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Oak Types	0	0	0	0	0	0	0	0	21	132	7	0	12	0	238	409
Planted Pines	0	0	0	0	9	13	367	0	0	0	0	0	0	0	7	395
Road/Parking Lot	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	20
Upland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	122	122	149	179	381	109	367	3	47	188	48	0	12	0	419	2144

**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 1

1	63140001-Cut	20.1	42110 - Planted Red Pine	High Density Pole	53	Harvest	Low Thinning	Planted Red Pine	
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Rev
Cmnt:
Rev 2nd thin
Spec
Next
Steps:

22	63140022-Cut	11.0	42110 - Planted Red Pine	High Density Pole	53	Harvest	Low Thinning	Planted Red Pine	
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Rev
Cmnt:
Rev 2nd Thin. Leave all Maple and Oak.
Spec
Next
Steps:

24	63140024-Cut	30.9	4139 - Aspen, Mixed Deciduous	High Density Pole	49	Harvest	Clearcut	Aspen	
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Rev
Cmnt: Varying ages. Some large overstory Oak and Beech. Scattered over- mature aspen clones mixed throughout.
Rev
Spec Harvest portion of stand to diversify age Structure. Final Harvest Leave all Oak. No retention because only harvesting portion of entire stand.
Next
Steps:

53	63140053-Cut	34.2	4199 - Other Mixed Upland Deciduous	High Density Log	90	Harvest	Seed Tree	Mixed Oak	
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Rev
Cmnt: LARGE Hill, will be difficult to harvest. May limited factor due to terrain. Good regen of oak. Some mortality on White Oak.
Rev
Spec Seed tree harvest the Oak. Cut all Pine, Maple and Aspen. Protect advanced regen.
Next
Steps:

80	63140080-Cut	19.8	4319 - Mixed Upland Forest	High Density Pole	39	Harvest	Clearcut with Reserves	Aspen	
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Rev
Cmnt: ORV trail runs through middle.
Rev
Spec Final harvest. Leave all spruce, tamarack and oak. Avoid wet pockets. Retention along ORV trail, and wet pockets.
Next
Steps:

**Total Treatment
Acreage Proposed: 116.0**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**



S
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n
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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
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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.