

CADILLAC FOREST MANAGEMENT UNIT



COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 99 ENTRY YEAR: 2012

Compartment Acreage (GIS Acres): 1570 County: Missaukee

Revision Date: 10/11/2010 10:38 AM

Stand Examiner: Steven Eisele, Forest Technician

Legal Description: T21N, R5W, Sections 9, 10, 11 and 12.

RMU (if applicable): 228

Management Goals: Maintain species and age diversity. Continue to buffer river corridors.

Soil and Topography: Mostly Rubicon and Croswell sands with Lupton muck along the river.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Scattered private blocks along river corridor, with seasonal cabins. Section 10 is solid state ownership.

Unique, Natural Features (include only non-site specific and non-sensitive information): Muskegon River runs through sections 11 and 12.

Osprey* documented within compartment in sections 11 and 12; more records to NE. Eastern massasauga* records in SW 1/4 of section 12 and NE 1/4 of section 13. Wood turtle* recorded in NE 1/4 of section 21 and NW 1/4 of section 7; additional records to SE and NW. Kirtland's warbler to SE. Bald eagle within 1 mile to E in sections 5 and 6; more occurrences to NE. Great blue heron rookeries to E. Boreal brachionyncha to E. Secretive locust to SW. Slippershell mussel to SE. Bigmouth shiner records to SE and NE.
Potential for osprey, bald eagle, red-shouldered hawk, and great blue heron rookery. Potential for massasauga, wood turtle, and Blanding's turtle.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: Muskegon River

Wildlife Habitat Considerations: Comp. 99 - Featured wildlife species are deer, ruffed grouse, woodcock, turkey, bear, and bobcat. Major management objectives are to maintain a variety of cover types and age classes which favor a variety of game and non-game species, There have been major concerns with the regeneration of the oak type throughout compartments in this area. (L. Smith, 9/24/10)

Mineral Resource and Development Concerns and/or Restrictions:

COMPARTMENT 99 Sections 9 -12, T21N-R5W, Missaukee County

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale in other parts of the State. Gravel pits are located within two miles of this compartment and potential is considered good. This area is located three miles southeast of South Prosper Field. Production of over 1 million BO is primarily from the Devonian Dundee Limestone. All state lands are leased for oil and gas development, or are nominated for the May 2010 auction.

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:

Recreational Facilities and Opportunities:

Fire Protection: Initial attack for the compartment is from the Houghton Lake Field Office. Access could be a problem, as this compartment is on both sides of the Muskegon River. There are "no plow" zones located close to this compartment. Any fire within this compartment has the potential to become labor intensive. 10-6-10/BRA

Additional Compartment Information:

The following parcels are recommended for acquisition if they become available for sale:

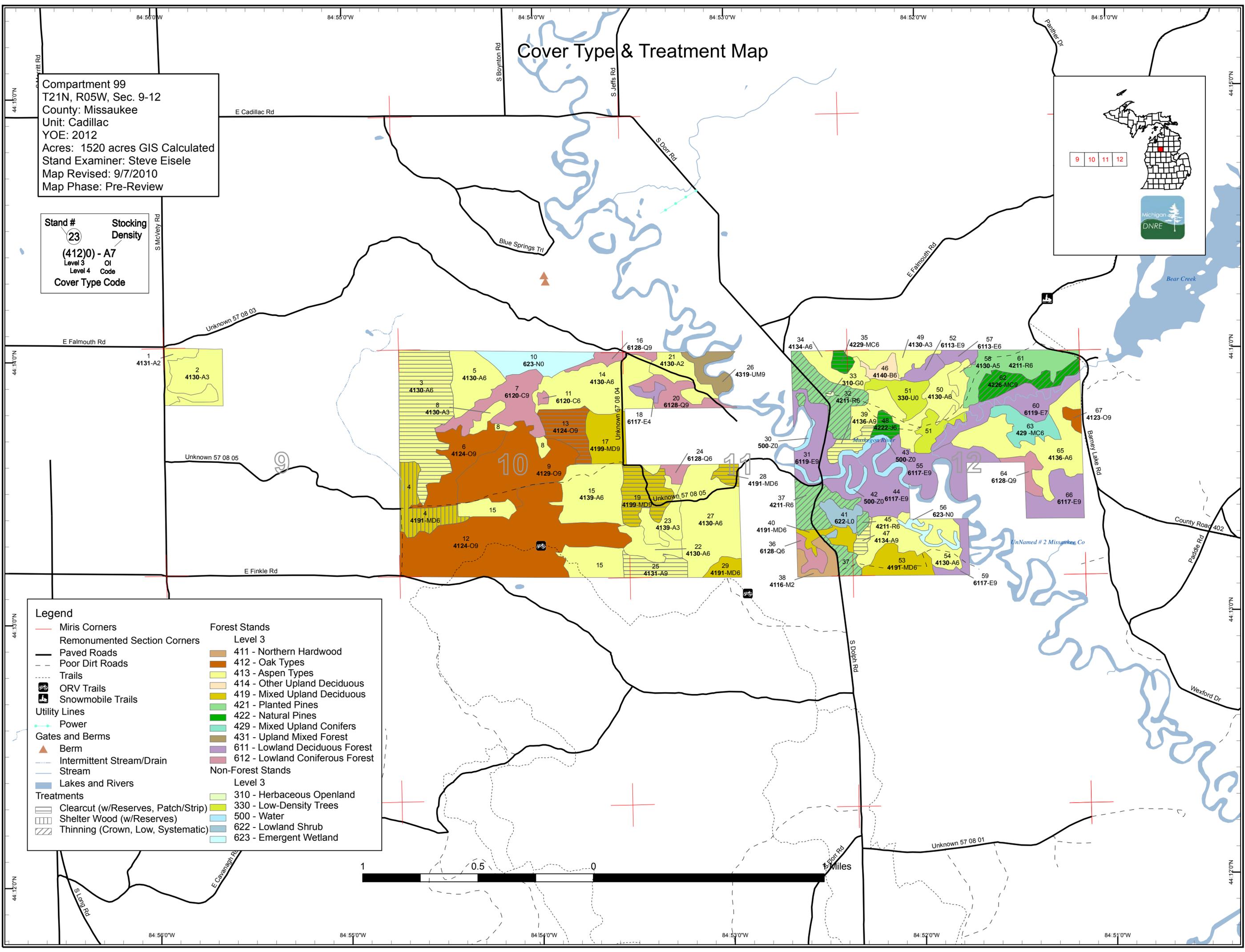
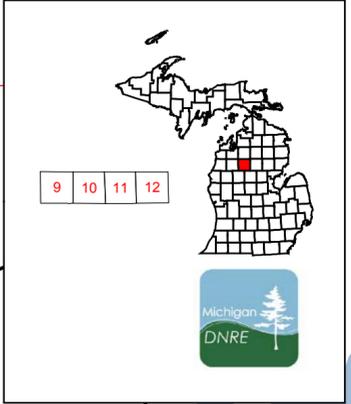
- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **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 99
 T21N, R05W, Sec. 9-12
 County: Missaukee
 Unit: Cadillac
 YOE: 2012
 Acres: 1520 acres GIS Calculated
 Stand Examiner: Steve Eisele
 Map Revised: 9/7/2010
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- Remonumented Section Corners
- Paved Roads
- Poor Dirt Roads
- Trails
- ORV Trails
- Snowmobile Trails
- Utility Lines
 - Power
- Gates and Berms
 - Berm
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Treatments
 - Clearcut (w/Reserves, Patch/Strip)
 - Shelter Wood (w/Reserves)
 - Thinning (Crown, Low, Systematic)

Forest Stands

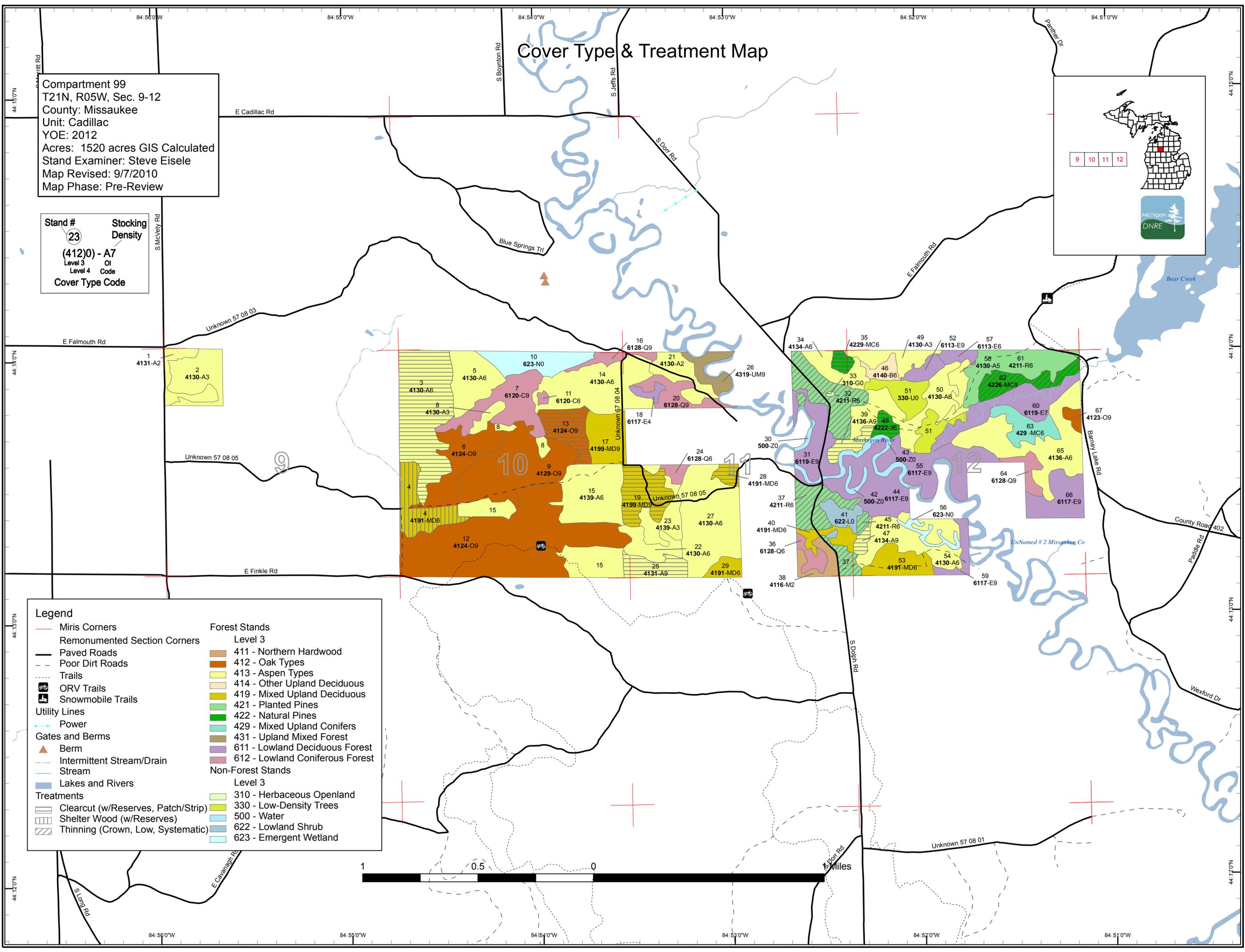
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

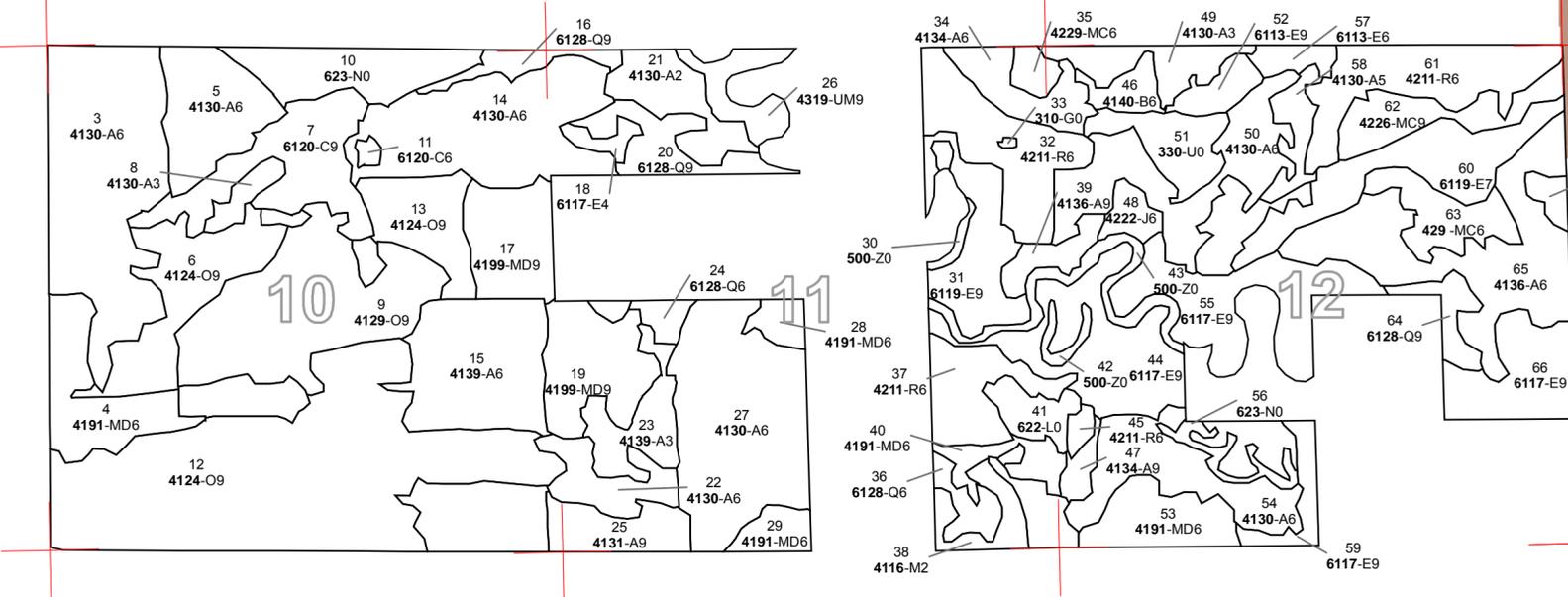
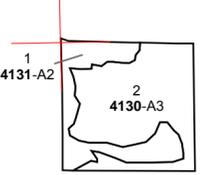
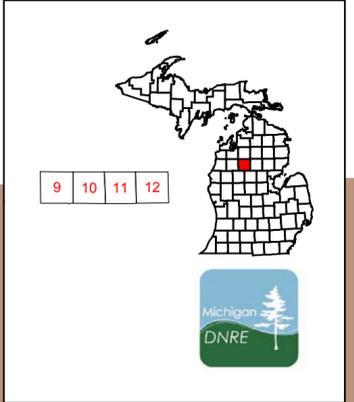
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Dedicated & Proposed Special Conservation Area Map

Compartment 99
 T21N, R05W, Sec. 9-12
 County: Missaukee
 Unit: Cadillac
 YOE: 2012
 Acres: 1520 acres GIS Calculated
 Stand Examiner: Steve Eisele
 Map Revised: 9/7/2010
 Map Phase: Pre-Review

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



Legend

— Miris Corners	Forest Stands	Non-Forest Stands
— Remonumented Section Corners	Level 3	Level 3
Proposed Special Conservation Areas	411 - Northern Hardwood	310 - Herbaceous Openland
▨ SCA - Special Conservation Area	412 - Oak Types	330 - Low-Density Trees
▩ SCA Removal	413 - Aspen Types	500 - Water
Dedicated Special Conservation Areas	414 - Other Upland Deciduous	622 - Lowland Shrub
■ Wildlife Research Areas	419 - Mixed Upland Deciduous	623 - Emergent Wetland
□ Stand Boundaries	421 - Planted Pines	
	422 - Natural Pines	
	429 - Mixed Upland Conifers	
	431 - Upland Mixed Forest	
	611 - Lowland Deciduous Forest	
	612 - Lowland Coniferous Forest	

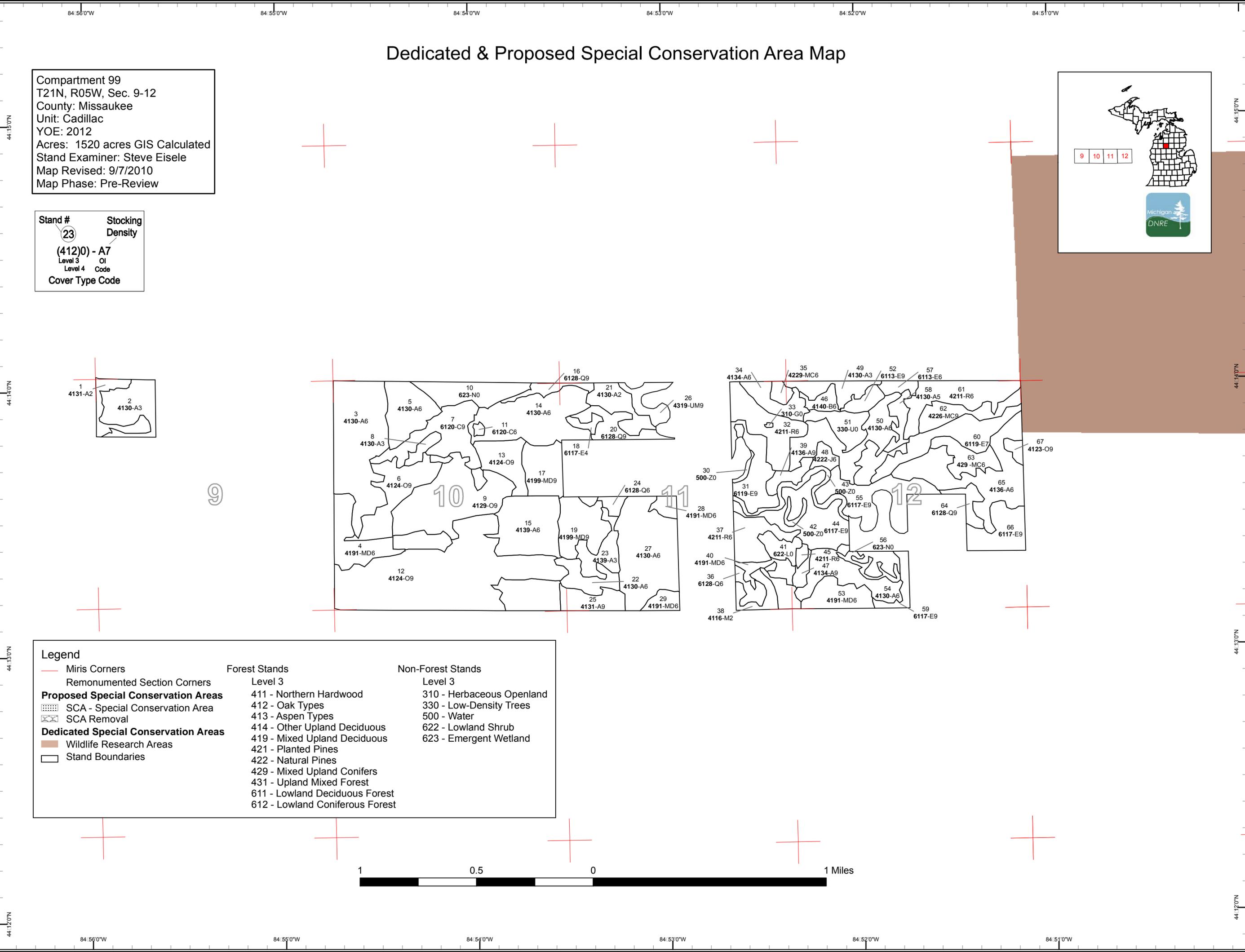


Table 1 – Total Acres by Cover Type and Age Class

Data updated yesterday after 6:00 PM



	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	32	124	224	0	123	76	0	23	0	0	0	0	0	4	607
Cedar	0	0	0	0	0	0	0	0	0	0	35	0	0	0	1	37
Herbaceous Openland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack Pine	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Low-Density Trees	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Conifers	0	0	0	0	0	0	0	0	0	16	7	0	0	0	19	42
Lowland Deciduous	0	0	0	0	0	0	0	0	8	0	0	33	0	0	145	187
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Marsh	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Mixed Upland Deciduous	0	0	0	0	0	0	27	6	28	0	0	0	0	0	60	120
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Oak	0	0	0	0	0	0	0	0	0	235	0	0	0	0	34	269
Paper Birch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Red Pine	0	0	0	0	0	0	99	0	0	0	0	0	0	0	0	99
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Total	86	32	124	224	0	123	208	6	60	251	42	33	0	0	332	1520



Table 2 – Proposed Treatment Summaries

Data updated yesterday after 6:00 PM

Cadillac Mgt. Unit
Year of Entry 2012

Compartment 099
Total Compartment Acres: 1520

Acres by Treatment Type

Commercial Harvest - 279	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	104	0	0	0	0	0	104
Jack Pine	6	0	0	0	0	0	6
Mixed Upland Deciduous	33	0	0	27	0	0	60
Natural Mixed Pines	5	0	0	0	18	0	23
Oak	21	0	0	0	0	0	21
Red Pine	0	0	0	0	65	0	65
Total	169	0	0	27	83	0	279

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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3 63099003-Cut	76.1	4130 - Aspen	High Density Pole	50	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription Clear cut with reserves. Leave oak. Leave hillside and smaller diameter islands.

Specs:

Other

Comments:

Next

Steps:

4 63099004-Cut	27.0	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	55	Harvest	Shelterwood	Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Shelterwood cut. Remove all pine.

Specs:

Other

Comments:

Next

Steps:

13 63099013-Cut	21.4	4124 - Red with White Oak	High Density Log	80	Harvest	Clearcut with Reserves	Red with White Oak	Cmpt. Review Proposal
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Prescription Final harvest with reserves, leave oak less than 6 inches DBH

Specs:

Other

Comments:

Next

Steps:

19 63099019-Cut	27.8	4199 - Other Mixed Upland Deciduous	High Density Log	75	Harvest	Clearcut with Reserves	Other Mixed Upland Deciduous	Cmpt. Review Proposal
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Prescription Final harvest with reserves. Mark some mast oak to leave

Specs:

Other

Comments:

Next

Steps:

25 63099025-Cut	15.5	4131 - Aspen, Oak	High Density Log	75	Harvest	Clearcut with Reserves	Aspen, Oak	Cmpt. Review Proposal
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Prescription Final harvest with reserves. Mark some mast oak to leave

Specs:

Other

Comments:

Next

Steps:

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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28 63099028-Cut	5.5	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	60	Harvest	Clearcut with Reserves	Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Clear cut with reserves. Leave oak
Specs:

Other
Comments:

Next
Steps:

32 63099032-Cut	33.9	42110 - Planted Red Pine	High Density Pole	54	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription Thin to 120 basal area. Mark to cut
Specs:

Other
Comments:

Next
Steps:

35 63099035-Cut	4.6	42290 - Natural Mixed Pine	High Density Pole	55	Harvest	Clearcut	Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Clear cut, leave wet, edge areas.
Specs:

Other
Comments:

Next
Steps:

37 63099037-Cut	28.4	42110 - Planted Red Pine	High Density Pole	54	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription Thin to 120 basal area. Mark to cut
Specs:

Other
Comments:

Next
Steps:

39 63099039-Cut	8.0	4136 - Aspen, Mixed Conifer	High Density Log	70	Harvest	Clearcut with Reserves	Aspen, Mixed Conifer	Cmpt. Review Proposal
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Prescription Clear cut with reserves. Mark some mast oak to leave. Buffer river
Specs:

Other
Comments:

Next
Steps:

45 63099045-Cut	2.5	42110 - Planted Red Pine	High Density Pole	54	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription third row thin or thin to basal area of 120, small area never thinned.
Specs:

Other
Comments:

Next
Steps:

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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47 63099047-Cut	4.2	4134 - Aspen, Spruce/Fir	High Density Log	70	Harvest	Clearcut with Reserves	Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription. Clear cut with reserves. Mark some mast oak to leave

Specs:

Other

Comments:

Next Long term management objective is aspen

Steps:

48 63099048-Cut	5.9	42220 - Natural Jack Pine	High Density Pole	50	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
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Prescription. Clear cut with reseves, leave oak, have logger scarify.

Specs:

Other

Comments:

Next

Steps:

62 63099062-Cut	18.4	42260 - Natural Pine, Mixed Deciduous	High Density Log	75	Harvest	Crown Thinning	Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription. Take all pine over 10 inches and all deciduos.

Specs:

Other

Comments:

Next

Steps:

**Total Treatment
Acreage Proposed: 279.3**

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Data updated yesterday after 6:00 PM

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
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acres Proposed: 0

Data updated yesterday after 6:00 PM

**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
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Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

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Cadillac Mgt. Unit

5 – Forested Stands

Compartment: 099
Year of Entry: 2012

Data updated yesterday after 6:00 PM

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4131 - Aspen, Oak	Medium Density	13.1	6		
2	4130 - Aspen	High Density Sapling	27.5	16		
3	4130 - Aspen	High Density Pole	76.1	50		
4	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	27.0	55	51-80	log size oak over white pine
5	4130 - Aspen	High Density Pole	28.4	28		
6	4124 - Red with White Oak	High Density Log	34.2	Uneven Age	51-80	treated last year of entry log size oak over aspen maple sprouts
7	6120 - Lowland Cedar	High Density Log	35.3	90		deer yard
8	4130 - Aspen	High Density Sapling	9.5	12		
9	4129 - Mixed Oak	High Density Log	65.2	80	81-110	dead oak has been salvaged and stolen throughout stand let regen get established treat next year of entry
11	6120 - Lowland Cedar	High Density Pole	1.5	Uneven Age		
12	4124 - Red with White Oak	High Density Log	144.3	85	51-80	treated last year of entry log size oak over aspen maple sprouts
13	4124 - Red with White Oak	High Density Log	21.4	80	81-110	final harvest with reserves leave oak less than 6 inches
14	4130 - Aspen	High Density Pole	57.1	28		
15	4139 - Aspen, Mixed Deciduous	High Density Pole	76.1	28		
16	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	7.2	Uneven Age		corridor along creek and marsh
17	4199 - Other Mixed Upland Deciduous	High Density Log	23.5	Uneven Age	51-80	log size oak over aspen maple look up cut records 92/94
18	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	3.8	Uneven Age		very wet with cattails
19	4199 - Other Mixed Upland Deciduous	High Density Log	27.8	75	81-110	

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Cadillac Mgt. Unit

5 – Forested Stands

Compartment: 099

Data updated yesterday after 6:00 PM

Year of Entry: 2012



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	15.8	85	81-110	deer yard wet
21	4130 - Aspen	Medium Density	18.6	16		
22	4130 - Aspen	High Density Pole	15.0	14		treated in 1996
23	4139 - Aspen, Mixed Deciduous	High Density Sapling	18.4	4		treated 06 log size oak over aspen maple sprouts
24	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	4.4	Uneven Age		wet with dead standing cedar
25	4131 - Aspen, Oak	High Density Log	15.5	75		
26	4319 - Mixed Upland Forest	High Density Log	11.6	Uneven Age	1-50	corridor along river
27	4130 - Aspen	High Density Pole	66.2	40		treat next year of entry or cut north half of stand to start another age class?
28	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	5.5	60		final harvest with reserves leave oak cut up to cedar line gets wet
29	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	7.3	Uneven Age	81-110	treat next year of entry
31	6119 - Mixed Lowland Deciduous Forest	High Density Log	25.5	Uneven Age	81-110	river corridor hardwoods standing water in spots
32	42110 - Planted Red Pine	High Density Pole	33.9	54	171-200	
34	4134 - Aspen, Spruce/Fir	High Density Pole	15.0	27		
35	42290 - Natural Mixed Pine	High Density Pole	4.6	Uneven Age	51-80	wet on edges
36	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	7.0	90		
37	42110 - Planted Red Pine	High Density Pole	28.4	54	141-170	
38	4116 - Mixed N. Hardwood - Aspen	Medium Density	9.5	Uneven Age		log size oak over aspen maple sprouts
39	4136 - Aspen, Mixed Conifer	High Density Log	8.0	70		do not merge with 34



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	9.4	Uneven Age		
44	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	39.4	Uneven Age	51-80	along river low and wet
45	42110 - Planted Red Pine	High Density Pole	2.5	54	171-200	plantation never treated variable diameters
46	4140 - Other Upland Deciduous	High Density Pole	6.9	Uneven Age		
47	4134 - Aspen, Spruce/Fir	High Density Log	4.2	Uneven Age		New stand added.
48	42220 - Natural Jack Pine	High Density Pole	5.9	50	81-110	
49	4130 - Aspen	High Density Sapling	14.5	14		
50	4130 - Aspen	High Density Pole	38.8	27		
52	6113 - Lowland Maple	High Density Log	7.5	Uneven Age		New stand added. wet
53	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	19.4	Uneven Age		log size oak and white pine over maple and aspen saplings
54	4130 - Aspen	High Density Pole	38.9	16		merge 63
55	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	38.8	Uneven Age	51-80	same as 50 merge if you can with river separating them
57	6113 - Lowland Maple	High Density Pole	5.5	Uneven Age	51-80	more pole size than log size neighboring stand wet
58	4130 - Aspen	Medium Density Pole	8.9	27		
59	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	8.3	75		
60	6119 - Mixed Lowland Deciduous Forest	Low Density Log	33.1	100		mostly dead standing snags creek meanders throughout stand
61	42110 - Planted Red Pine	High Density Pole	34.5	57	141-170	is this marked for red pine project clearcut ? replant red pine
62	42260 - Natural Pine, Mixed Deciduous	High Density Log	18.4	Uneven Age	1-50	

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Cadillac Mgt. Unit

5 – Forested Stands

Compartment: 099
Year of Entry: 2012



Data updated yesterday after 6:00 PM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	429 - Mixed Upland Conifers	High Density Pole	16.8	Uneven Age		hummocky ground treat next year of entry
64	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	7.9	Uneven Age		deer yard
65	4136 - Aspen, Mixed Conifer	High Density Pole	57.3	43		treat next year of entry
66	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	24.7	Uneven Age		low wet no access
67	4123 - Red Oak	High Density Log	3.9	80	1-50	



Stand	Cover Type	Acres	Gen Cmts:
10	6239 - Mixed Emergent Wetland	24.8	salvaged dead cedar here in the past still a lot of dead standing cedar cattails
30	50 - Water	1.8	Muskegon river
33	3102 - Grass	0.4	old landing in pine plantation
41	6220 - Alder/willow	10.2	
42	50 - Water	2.9	
43	50 - Water	12.2	
51	3301 - Low Density Deciduous Tree	27.3	wet with scattered dead ash cattails and alder
56	6239 - Mixed Emergent Wetland	5.9	beaver activity cutting aspen saplings



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 yesterday after 6:00 PM

Stand	SCA Type	SCA Name	Acres	Comments
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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 yesterday after 6:00 PM

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.