

## **Compartment Review Presentation**

**Cadillac Forest Management Unit** 

Compartment 137 Entry Year 2015

County Wexford

Acreage: 1,274

Management Area: Manistee River Valley

Revision Date: 08/19/2013 Stand Examiner: Jim Malloy

**Legal Description:** 

T24N, R9W Sections 7-9, 16, and 21

#### **Identified Planning Goals:**

This compartment is bound by the Manistee River on the north and has several tributary streams running through it, including Manton Creek. The primary emphasis along the Manistee River and it's immediate vicinity will be to preserve the associated visual aesthetics and recreational values. Those areas beyond the view of the river will be managed for dispersed recreation, wildlife, and timber. Major management emphasis on these setback areas will be on intolerant timber types.

#### Soil and topography:

Soil series found in the compartment include Rubicon-Montcalm-Graycalm, Tawas-Croswell-Lupton, and Nester-Kawkawlin-Manistee. Terrain is generally flat to slightly rolling. Very steep primary and secondary river bluffs follow the corridor along the Manistee River. Tributary streams are typically in narrow steep ravines.

## Ownership Patterns, Development, and Land Use in and Around the Compartment:

Surrounding land ownership is a mix of state and private land. Private land is dispersed throughout the area but concentrated to the south. The private lands are a mix of fallow agricultural fields and small woodlots. Development pressure on private lands in this area is high due to the proximity to the major travel corridor. The town of Manton is four miles south of the compartment boundary. There is a relatively undeveloped corridor along the Manistee River. The north end of the recent US-131 construction abuts the east side of this compartment. Twenty-six acres (along the east boundary of the compartment) that were previously inventoried as State Forest Land are actually Department of Transportation owned (as part of the US-131 right-of-way). The forty acre parcel in the SWNE of Sec. 7 has been acquired since the last inventory of this compartment. It was purchased in 1995.

Desirable land for acquisition: Sec. 7, SESE & ENESW; Sec. 8, SWSE.

#### **Unique Natural Features:**

The Manistee River winds along the northern boundary of this Compartment. Manton Creek, and several smaller unnamed tributaries of the Manistee flow through the northern portion of this compartment. Michigan Natural Features Inventory lists the potential for occurrences of wood turtles, great blue heron rookeries, red-shouldered hawks, goshawks and massasauga rattlesnakes.

#### **Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

#### **Special Management Designations or Considerations:**

Maintain the aesthetics integrity along the Manistee River and the major travel corridors through the Compartment. Preserve water quality through the implementation of Best Management Practices. The Manistee River is being reviewed for classification as a Natural River. Management proposals will follow the guidelines for this designation.

## **Watershed and Fisheries Considerations:**

The Manistee River, Manton Creek, and several unnamed tributaries flow through Compartment 137. All are Designated Trout Streams. Manton Creek is a very high quality tributary to the Manistee River, with naturally reproducing populations of brook and brown trout. Manton Creek is also on the "Trout Streams Vulnerable to Beaver Damming" list. Therefore, future management of the riparian zone near Manton creek should be to manage for tree species other than aspen. (M. Tonello, 8/27/13)

#### Wildlife Habitat Considerations:

This compartment is in the Highplains Ecosystem, Grayling Outwash Plains Subsection, LTA 5211. Soils are characterized by deep, excessively drained, acidic sands. Historic vegetation included the entire spectrum of conifer dominated forests. Wildlife habitat objectives are to continue to maintain species and age-class diversity across the compartment, to promote

within-stand structural diversity, and to encourage lowland conifers and mast-producing species. Featured species of special interest include bear, deer, woodcock, ruffed grouse, and snowshoe hare. (E. Victory, 8/21/13).

#### Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till, glacial outwash sand and gravel and postglacial alluvium and end moraine of coarse-textured till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Mississippian Michigan and Marshall Formations. The Michigan is quarried for gypsum and the Marshall was previously used as a building stone elsewhere in the State. A gravel pit is located in section 16 and potential is considered to be good. This area lies seven miles southeast of the prolific Silurian Guelph (Niagaran) reef trend. There does not appear to be any potential for reefs in this area. Sections 16 and 21 are currently leased for oil and gas development. (T. Hoane, 3/6/2013).

#### **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 closure. 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.

## **Survey Needs:**

None.

#### **Recreational Facilities and Opportunities:**

The Michigan Cross country cycle trail & snowmobile trail #6 are located along the county road in this compartment. There is heavy use of state lands for hunting, fishing, berry and mushroom picking in this compartment. Dispersed camping is also common within this compartment. (T.M.N. 7/10/13).

#### **Fire Protection:**

With the county roads and highway system, access within the compartment is good. Limiting factor for response to a wildfire would be inaccurate directions from the reporting parties, due to the Manistee River and US131 freeway. There are some private parcels and the abundance of recreational opportunities that cause most wildfires. Fuel types lend themselves to large fire potential. The railroad crosses the compartment limiting the response of wildfire equipment. Fire response time would be short being that Manton Field Office is close to the compartment. (B. Tower, 2013).

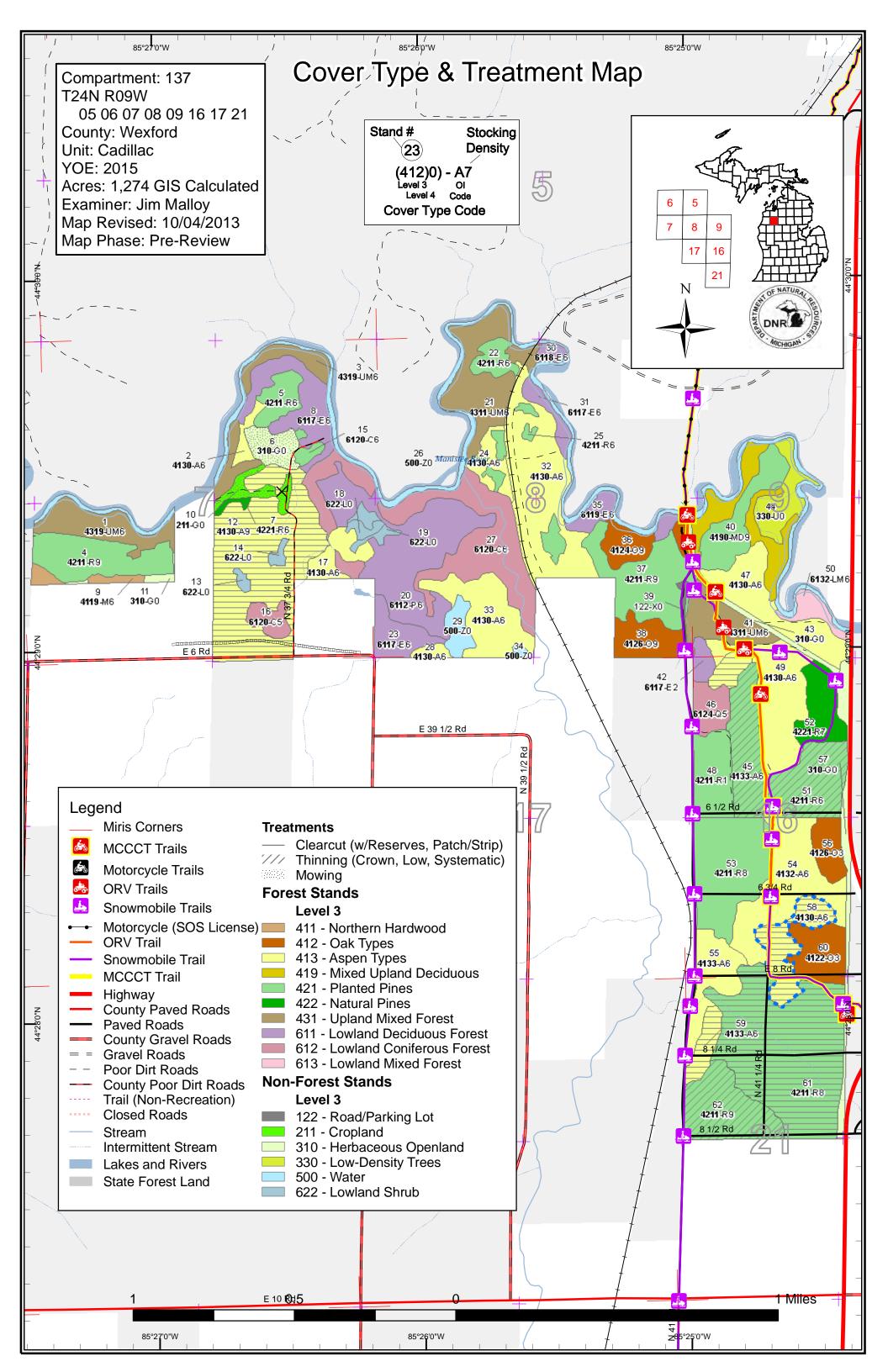
#### **Additional Compartment Information:**

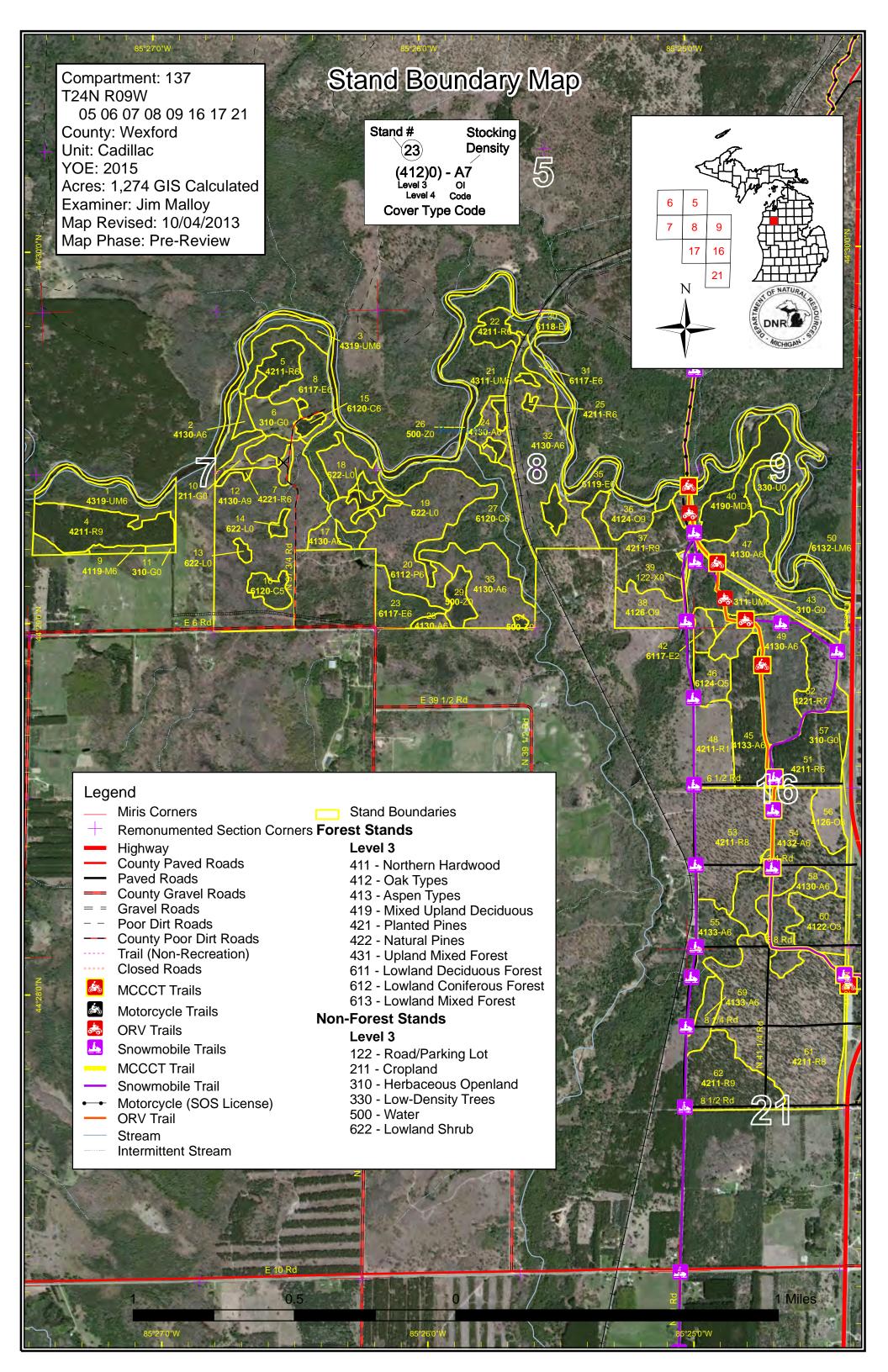
The following reports from the Inventory are attached:

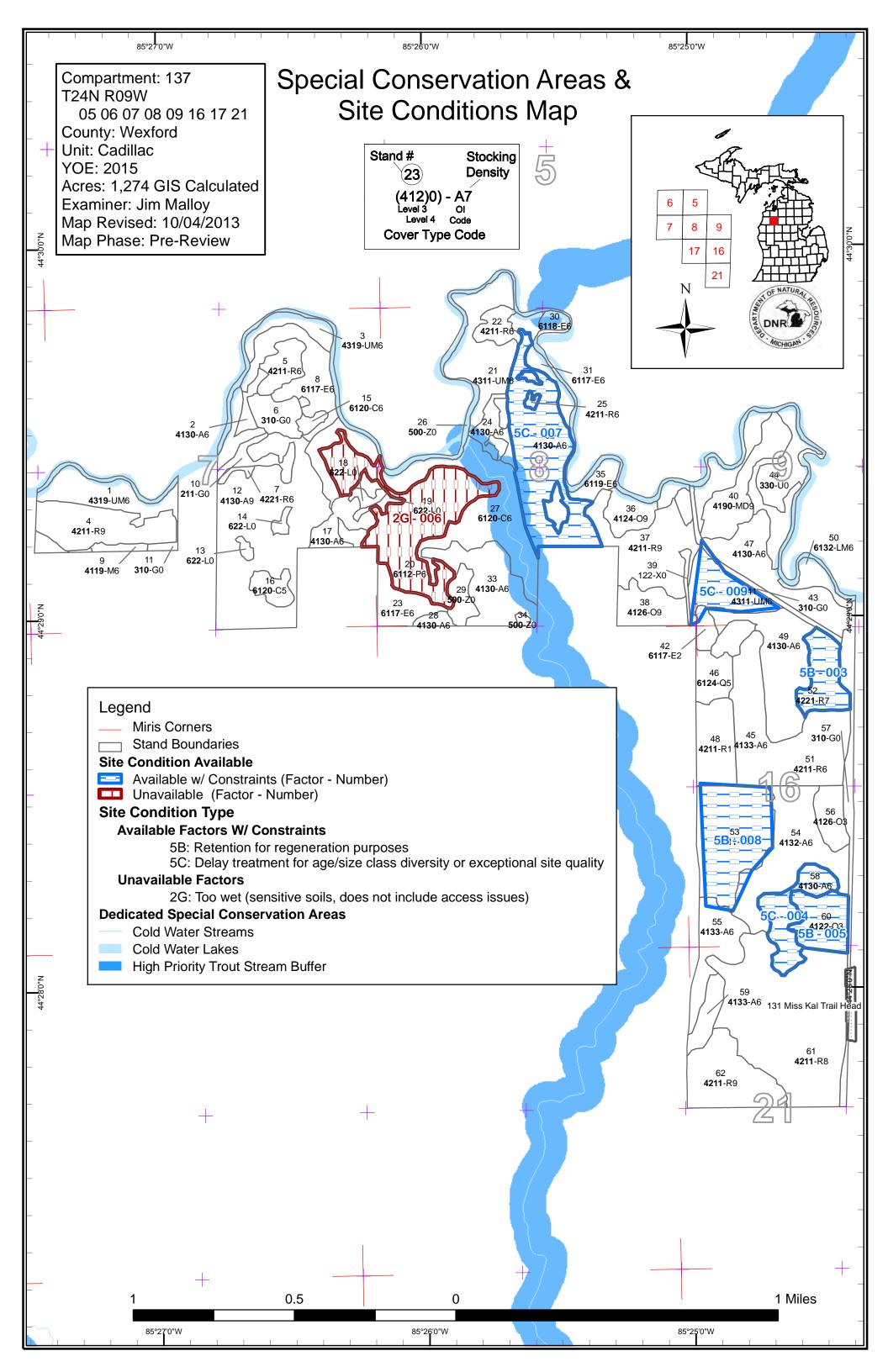
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system







Compartment 137 Year of Entry 2015

Cadillac Mgt. Unit
James Malloy : Examiner



Age Class																
		6.0	70.79	S. S	or of the state of	D. C.	\$5.0g	89.09	10° /	000 O	85.05	on ,	70,79	ra x	& /	, so
Aspen	0	44	45	21	135	121	0	0	0	0	0	0	0	0	366	
Cedar	0	0	0	0	0	0	0	0	0	7	64	0	0	0	71	
Cropland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Herbaceous Openland	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38	
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
Lowland Aspen/Balsam Poplar	0	0	0	0	0	62	0	0	0	0	0	0	0	0	62	
Lowland Conifers	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10	
Lowland Deciduous	5	0	25	0	12	6	13	0	0	0	0	0	0	0	62	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	7	0	0	0	7	
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Mixed Upland Deciduous	0	0	0	0	0	0	0	22	0	0	0	0	0	0	22	
Northern Hardwood	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5	
Oak	0	0	11	0	0	0	28	0	18	0	0	0	0	0	57	
Red Pine	20	0	0	0	0	166	13	0	195	0	0	0	0	0	394	
Upland Mixed Forest	0	0	35	0	0	0	20	0	0	21	16	0	0	0	92	
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Water	52	0	0	0	0	0	0	0	0	0	0	0	0	0	52	

Total



## **Report 2 – Proposed Treatment Summaries**

Cadillac Mgt. Unit Year of Entry 2015

> Aspen Types Planted Pines

Compartment 137 **Total Compartment Acres: 1,274** 

## **Acres by Treatment Type**

Tree Planting - 100 Commercial Harvest - 312

Other - 0

Habitat Cut - 0

Opening Maintenance - 18

Total

221

0

0

**Cover Type by Harvest Method** The second secon Lindia 121 121 100 91 0 0 0 0 191

91

0

0

312

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LEMARBEM

Cadillac Mgt. Unit

## Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 137 Year of Entry 2015

t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	63137012-Cut	86.2	4130 - Aspen	High Density Lo	57 g		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
Pres Spec		vest stand.	Retention in the fo	orm of buffers	along the	e three wet	islands and 1-2	chain buffer along tl	ne wildlife opening to	the north.

<u>Other</u> Comments:

Next Steps:

s

**Proposed** 

10/01/2014 Start Date:

63137045-Cut 45

6.1 4133 - Aspen, Mixed Pine

High Density Pole

56 111-140 Harvest

Clearcut with Reserves

413 - Aspen

Cmpt. Review Proposal

Prescription final harvest leave oaks manage for a mix of white pine and aspen.

Specs:

<u>Other</u>

Protect ORV/Snowmobile trail during harvesting

Comments:

<u>Next</u> Steps:

**Proposed** 

Start Date: 10/01/2014

63137051-Cut

58.5

42110 - Planted Red Pine

High Density Pole

171-200

Harvest

Low Thinning

4211 - Planted Red Pine

Cmpt. Review Proposal

Prescription Thin pine to a residual BA of 100-110

8.6

Specs:

Other\_ Protect ORV/Snowmobile trail during harvesting

Comments:

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2014

59 63137059-Cut 4133 - Aspen, Mixed Pine

Density Pole

High

54

Harvest Clearcut

4133 - Aspen, Mixed Pine

Cmpt. Review Proposal

Prescription Final harvest stand and allow aspen to expand into adjacent stands. Leave all white pine under 4" Specs:

Other

Next

Comments:

Steps: Proposed

10/01/2014 Start Date:

Compartment: 137 Cadillac Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type** Approval n Density Method Objective **Status** d Name Age Range Type 100.1 42110 - Planted 87 51-80 Clearcut with - Planted Red Cmpt. Review 63137061-Cut Medium Harvest 4211 61 Red Pine Density Log Reserves Pine Proposal Prescription Final harvest. Leave all oak less than 6"dbh Specs: <u>Other</u> Protect ORV/Snowmobile trail during harvesting Comments: Trench and replant to red pine. Next Steps: **Proposed** 10/01/2014 Start Date: 42110 - Planted High 4211 - Planted Red Cmpt. Review 63137062-Cut 32.1 87 111-140 Harvest Low Thinning 62 Red Pine Density Log Pine Proposal Prescription Thin pine to a residual BA of 80. Leave all oak. Specs: <u>Other</u> Final harvest next entry and replant to red pine. Comments: Next Steps: **Proposed** 10/01/2014 Start Date: NF 63137006-10.5 3102 - Grass Non-Forest Mowing 31021 - Cool Cmpt. Review Management Season Grass . Proposal NonFor Prescription Opening maintenance including disking, seeding, mowing and fertilizing Specs: Other Comments:

Next Steps:

**Proposed** 

Start Date: Unspecified

10NF\_63137010-<br/>NonFor7.42113 - Forage CropsNon-ForestMowing<br/>Management31021 - Cool<br/>Season GrassCmpt. Review<br/>Proposal

<u>Prescription</u> Opening maintenance including disking, seeding, mowing and fertilizing <u>Specs:</u>

-

Other Comments:

Comment

Next Steps:

**Proposed** 

Start Date: Unspecified

**Total Treatment** 

Acreage Proposed: 309.5

Cadillac Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 137 a Limiting Factor s Year of Entry 2015 t **Cover Type Treatment** Acres CoverType Size Stand BA **Treatment Treatment Approval** n Method Objective Status Name **Density** Range Type d Age 20.3 High 51 51-80 Harvest Clearcut with 413 - Aspen Cmpt. Review 58 63137058-Cut 4130 - Aspen Density Reserves Proposal Pole Prescription Final harvest stand. Add grouse and hare spec to final sale. Specs: Protect ORV/Snowmobile trail during harvesting. **Other** Comment: <u>Next</u> Steps: Proposed

5C: Delay treatment for age/size class diversity or exceptional site quality

**Total Treatment** 

Start Date: 10
Limiting Factor

Acreage Proposed: 20.3

10/01/2014

Compartment 137 Year of Entry 2015

Cadillac Mgt. Unit

Jim Malloy: Examiner

## **Dominant Site Conditions**

	No	5C	5B	2G
Aspen	286	78	2	
Cedar	71			
Lowland Aspen/Balsam Poplar				62
Lowland Conifers	10			
Lowland Deciduous	61	1		
Lowland Mixed Forest	7			
Mixed Upland Deciduous	22			
Northern Hardwood	5			
Oak	39		18	
Red Pine	335		59	
Upland Mixed Forest	76	16		
Total Forested Acres	914	94	79	62
Relative Percent			-	-

\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
003	Available	5B: Retention for regeneration purposes	18				
Comments: Pine over Oak							
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20				
C	omments:						
005	Available	5B: Retention for regeneration purposes	18				
C	omments:						

# Report 5 – Site Conditions

Cadillac Mgt. Unit
Jim Malloy: Examiner

Compartment 137 Year of Entry 2015

006	Not Available	2G: Too wet (sensitive soils, does not include access issues)	63	2D: Portable Bridge Needed (Dept. bridge will be adequate)		
C	omments:					
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	57			
Comments: Only aspen of this age east of RR						
800	Available	5B: Retention for regeneration purposes	44			
C	omments:					
W	as underplanted	2012				
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17			
C	omments:					

Cadillac Mgt. Unit Co

Compartment: 137 Year of Entry: 2015



## Report 6 - 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
131 Miss Kal Trail Head	Concentrated Recreation Area	Trail Head	SCA	
Comments				
ORV and Snowmobile trail h	nead			

Cadillac Mgt. Unit Compartment: 137

## Year of Entry 2015

ERA = Ecological Reference Area



# Report 7 - 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.

Conservati Area	on Type	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical sites of cultural and historical significance that may occur upon bottomlands. They include thousands of Native American settle and British outposts, nineteenth century logging camps, mines the Great Lakes, there are shipwrecks and other remains docur be identified by Natural heritage data from the State Historic Prothis compartment will be implemented in such a manner as to not the sensitive nature of this information, no further detail about the	terrestrial areas and Great Lakes ements and burial sites, as well as French and homesteads. Beneath the waters of menting the maritime trade. Such sites may eservation Office. Proposed treatments in naintain the integrity of these sites. Due to
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish speconditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	cies to persist from year to year. Suitable ney are relatively deep, have substantial of the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen constocked trout populations and those of other coldwater fish speryear to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such stream designated as trout resources by Fisheries Order 210.	cies (e.g., slimy sculpin) to persist from lese conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effects as aesthetics, habitat, bank stability, timber production, and the	he unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian ects on water quality and quantity, as well

S	Cadillac Mgt. Unit			Report 8	– Forested	Stands Compartment: 137 Year of Entry: 2015
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4319 - Mixed Upland Forest	High Density Pole	21.5	94		Stand occurs on the bluff face of the Manistee River. Senic and diverse.
2	4130 - Aspen	High Density Pole	4.1	45		Aspen stand on top of bluff overlooking Manistee River
3	4319 - Mixed Upland Forest	High Density Pole	16.0	102	51-80	
4	42110 - Planted Red Pine	High Density Log	30.1	59		Consumers Stand
5	42110 - Planted Red Pine	High Density Pole	13.3	59	111-140	Stands are growing slowly. Thinned last entry
7	42210 - Natural Red Pine	High Density Pole	1.4	59	81-110	Small stand of natural/planted pine along edge of managed wildlife opening.
8	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	25.4	27		seasonaly wet wuth hummoky areas.
9	4119 - Mixed Northern Hardwoods	High Density Pole	5.2	78		
12	4130 - Aspen	High Density Log	86.2	57		Stand is a mix of aspen with pockets of pine and scattered oak and maple.
15	6120 - Lowland Cedar	High Density Pole	14.9	104		Stand is mix of cedar and aspen along the edges of the creek and bluff face of the Manistee River, along with balsam fir.
16	6120 - Lowland Cedar	Medium Density Pole	6.8	96		Stand is a mix of cedar and some hemlock with a scattering of aspen. Wet area within larger aspen stand.
17	4130 - Aspen	High Density Pole	10.8	47		Stand borders private land along the southern edge and contains some drainages.
20	6112 - Lowland Aspen	High Density Pole	62.5	59		Stand is located in the middle of a confluence of small streams and wetlands. Portable bridge would be needed to havest.
21	4311 - Pine, Aspen Mix	High Density Pole	34.7	27		Stand is a mix of aspen clones and scattered pockets of red pine and white pine.
22	42110 - Planted Red Pine	High Density Pole	7.5	61	141-170	Small stand of planted red pine thinned last entry. RR needs to be crossed to access.
23	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	13.2	65	51-80	Small ash component is dead/dying due to EAB, wet stand with some areas of high ground.
24	4130 - Aspen	High Density Pole	8.3	28		Just converting to pole class

s t	Cadillac Mgt. Unit			Report 8	– Forested	Stands Compartment: 137 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	42110 - Planted Red Pine	High Density Pole	5.4	61	111-140	Various small areas of planted red pine. Treated with a thinning last entry.
27	6120 - Lowland Cedar	High Density Pole	49.5	106		Stan occurs along the edges of Manton Creek and the south edge of the Manistee River
28	4130 - Aspen	High Density Pole	2.7	42		
30	6118 - Lowland Deciduous with Cedar	High Density Pole	3.1	48	51-80	Stand occurs on floodplain of the river. small acerage and limited access.
31	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	6.0	57		
32	4130 - Aspen	High Density Pole	57.2	48		
33	4130 - Aspen	High Density Pole	29.4	42		ASpen stand with scattered white pine towards the northern portion of the stand.
35	6119 - Mixed Lowland Deciduous Forest	High Density Pole	9.2	41		Pockets of lowland hardwood that occur just abouve the level of the river. flood seasonaly. Ash is dying/dead due to EAB
36	4124 - Red with White Oak	High Density Log	12.8	64		Stand occurs along the top of the river bluff.
37	42110 - Planted Red Pine	High Density Log	62.6	59		Consumers Pine
38	4126 - White, Black, N. Pin Oak	High Density Log	15.4	68		
40	4190 - Mixed Upland Deciduous with Cedar	High Density Log	22.5	72	51-80	Mostly occurs on floodplains jsut a few feet above the river. Floods seasonly.
41	4311 - Pine, Aspen Mix	High Density Pole	19.7	67	51-80	
42	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	4.8	7		
45	4133 - Aspen, Mixed Pine	High Density Pole	6.1	56	111-140	stand is a mix of white pine and aspen. mostly pole/log.
46	6124 - Lowland Spruce- Fir	Medium Density Pole	10.5	62		Wet stand with a wet hole along 41 rd. Stand was left following previous cuts in the area. Allow to progress naturaly. Mix of Balsam, spruce white pine and paper birch. A few scattered aspen.

s t	Cadillac	Cadillac Mgt. Unit			<ul><li>Forested</li></ul>	Stands Compartment: 137 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4130 - Aspen	High Density Pole	31.0	43		Stand is along the northern edge of the old ORV trail.
48	42110 - Planted Red Pine	Low Density Sapling	20.2	4		
49	4130 - Aspen	High Density Pole	37.0	28		Aspen stand just transitioning into pole class. a few scattered log red pine.
50	6132 - Mixed Lowland Forest with Cedar	High Density Pole	6.7	105		Stand occurs along the floodplain of the manistee river. Adjacent to US131 to the east.
51	42110 - Planted Red Pine	High Density Pole	58.5	57	171-200	
52	42210 - Natural Red Pine	Low Density Log	17.5	87	1-50	Stand was thinned last entry. 30-40 ba of red pine was left to seed in and understory of oak and aspen.
53	42110 - Planted Red Pine	Medium Density Log	45.5	87	1-50	Old red pine plantation with a new 4yo planting of white pine.
54	4132 - Aspen, Jack Pine	High Density Pole	44.1	15		A mix of aspen age classes with scattered overstory jack and red pine.
55	4133 - Aspen, Mixed Pine	High Density Pole	20.6	35		pole sized aspen with scattered pine and heavier to pine along 41 Rd.
56	4126 - White, Black, N. Pin Oak	High Density Sapling	10.5	22		Stand is the result of a red pine final harvest to release the residual oak understory. Oak is doing well, a few islands of pine were left following harvest.
58	4130 - Aspen	High Density Pole	20.3	51	51-80	Stand is a mix of various aspen clones and scattered overstory pines.
59	4133 - Aspen, Mixed Pine	High Density Pole	8.6	54		Aspen stand along edge of 41 Rd.
60	4122 - Oak, Pine	High Density Sapling	18.0	85		Stand is a mix of regenerating oak and a small overstory of oak and pine.
61	42110 - Planted Red Pine	Medium Density Log	100.1	87	51-80	Was supposed to regenerate naturally but no evidance of regen. Final harvest and plant to red pine.
62	42110 - Planted Red Pine	High Density Log	32.1	87	111-140	

## Report 9 - Nonforested Stands

Compartment: 137 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	3102 - Grass	10.5	No	Unspecified	
10	2113 - Forage Crops	7.4	Yes	High	
11	310 - Herbaceous Openland	1.9	No	Unspecified	Check for possiable trespass from landowner to the south.
13	6220 - Alder/willow	1.5	Unspecified	Unspecified	
14	6220 - Alder/willow	1.9	Unspecified	Unspecified	
18	6229 - Mixed lowland shrub	2.5	No	Unspecified	
19	622 - Lowland Shrub	4.4	Unspecified	Unspecified	
26	50 - Water	43.7	No	Unspecified	Manistee River
29	50 - Water	7.3	Unspecified	Unspecified	
34	50 - Water	0.9	Unspecified	Unspecified	
39	122 - Road/Parking Lot	1.8	No	Unspecified	41 Rd
43	3104 - Degraded	6.5	No	Unspecified	Old ORV trail and portion of current ORV trail to the Manistee River.
44	330 - Low-Density Trees	14.9	Unspecified	Unspecified	
57	310 - Herbaceous Openland	18.8	Unspecified	Unspecified	ROW along US 131 including the current and past ORV/Snowmobile Trailheads.