

Compartment Review Presentation

Cadillac Forest Management Unit Compartment 106 Entry Year 2016 Acreage: 1,588

County Missaukee Management Area: Upper Muskegon

Revision Date: 05/15/2014

Stand Examiner: Steve Eisele

Legal Description:

T21N R6W, Sec. 12,13,24,25,36

Identified Planning Goals:

Vegetation management in the Upper Muskegon Management Area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

Soil and topography:

Well drained sandy soil as well as rubicon, peats and mucks in bogs and low areas. Mostly level with some bogs.

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

Patchwork of state and private. Larger blocks of state land to the east and south. Recreational hunting and ORV use.

Unique Natural Features:

Cranberry Lake in section 36. Potential for spotted turtle, blandings turtle and eastern box turtle. Potential for ebony boghaunter and secrtive locust in bogs.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Timber harvest activities should buffer bogs and lowland wet areas. Concentrate on a mix of pine in the areas of oak mortatlity to re establish the pine/oak component.

Watershed and Fisheries Considerations:

Cranberry lake is the only body of water. Some seasonal run off areas but no creeks or rivers. Bog/marsh areas usually stay wet all year.

Wildlife Habitat Considerations:

This compartment is valuable wildlife habitat for many upland species, providing a good mix of timber types and mixed age classes. Management efforts should continue to support maintaining a variety of cover types and age class diversity both within and across stands. Given the potential for a number of species of concern, including bald eagle, secretive locust, and wood turtle, treatments should incorporate buffers for streams, lowlands and openings, and retention of large nesting trees near waterbodies. Generally, wildlife goals are to maintain lowland conifer and to promote oak and aspen. Creation of brush piles near lowlands, protection of mast bearing shrubs and provision of coarse woody debris are also desired. Featured species of special interest include woodcock, golden-winged warbler, snowshoe hare, pileated woodpecker, and deer. (E. Victory 7/18/14)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium and minor coarsetextured 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 in the area and gravel potential is considered good. The comoartment is located near Cranberry Lake Field. The field has produced from the Stray Sandstone, Dundee, Richfield and Prairie du Chien and is involved in secondary recovery and gas storage operations. There are underground gas storage leases on

State lands in Section 25 and 36.

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.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within this compartment. There are numerous opportunities for dispersed camping and hunting. (T.M.N. 3/14)

Fire Protection:

Due to the jack pine within the compartment the potential for a larger fire is increased. Most of the compartment has good access with the exception of the bog areas. There is urban interface potential with the private ownerships. BET5-14

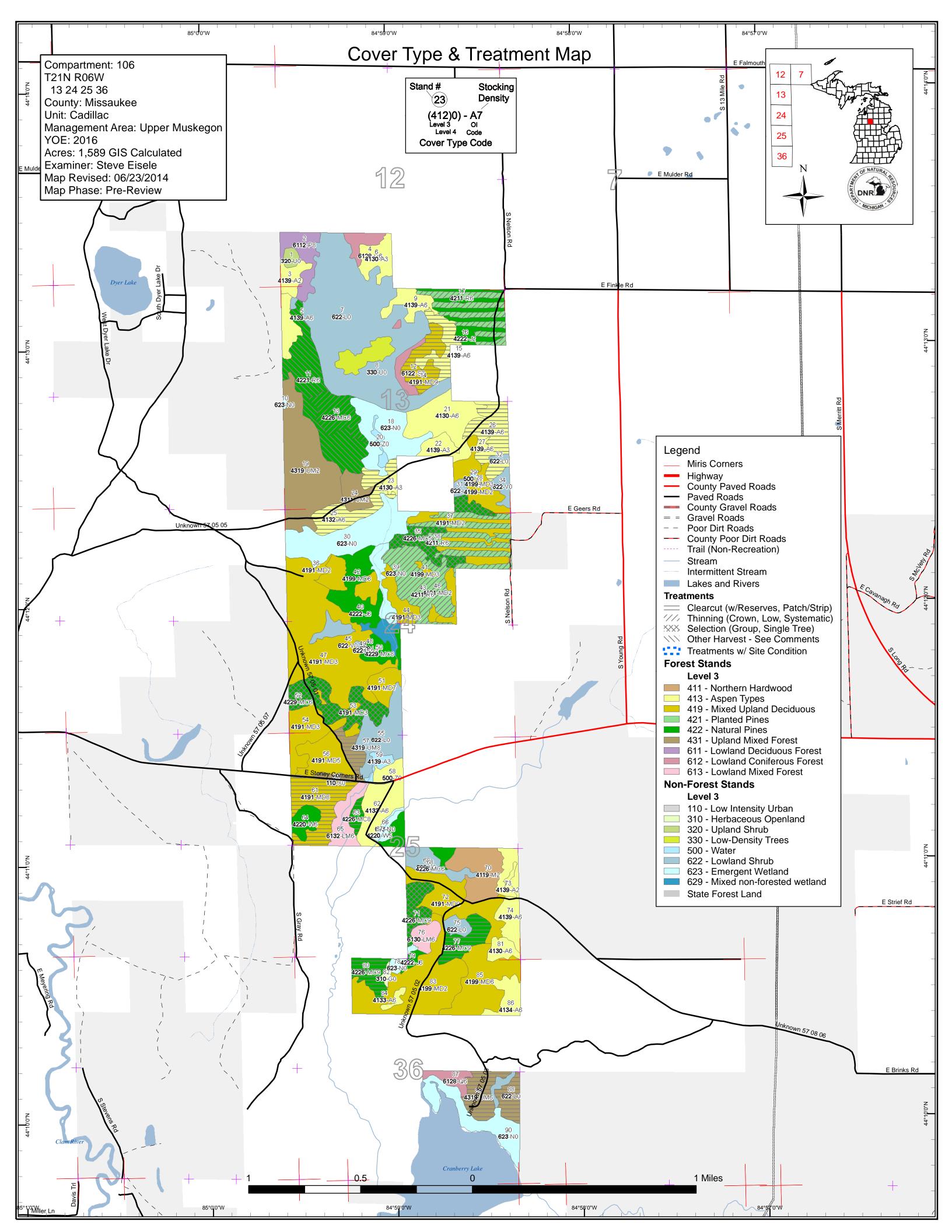
Additional Compartment Information:

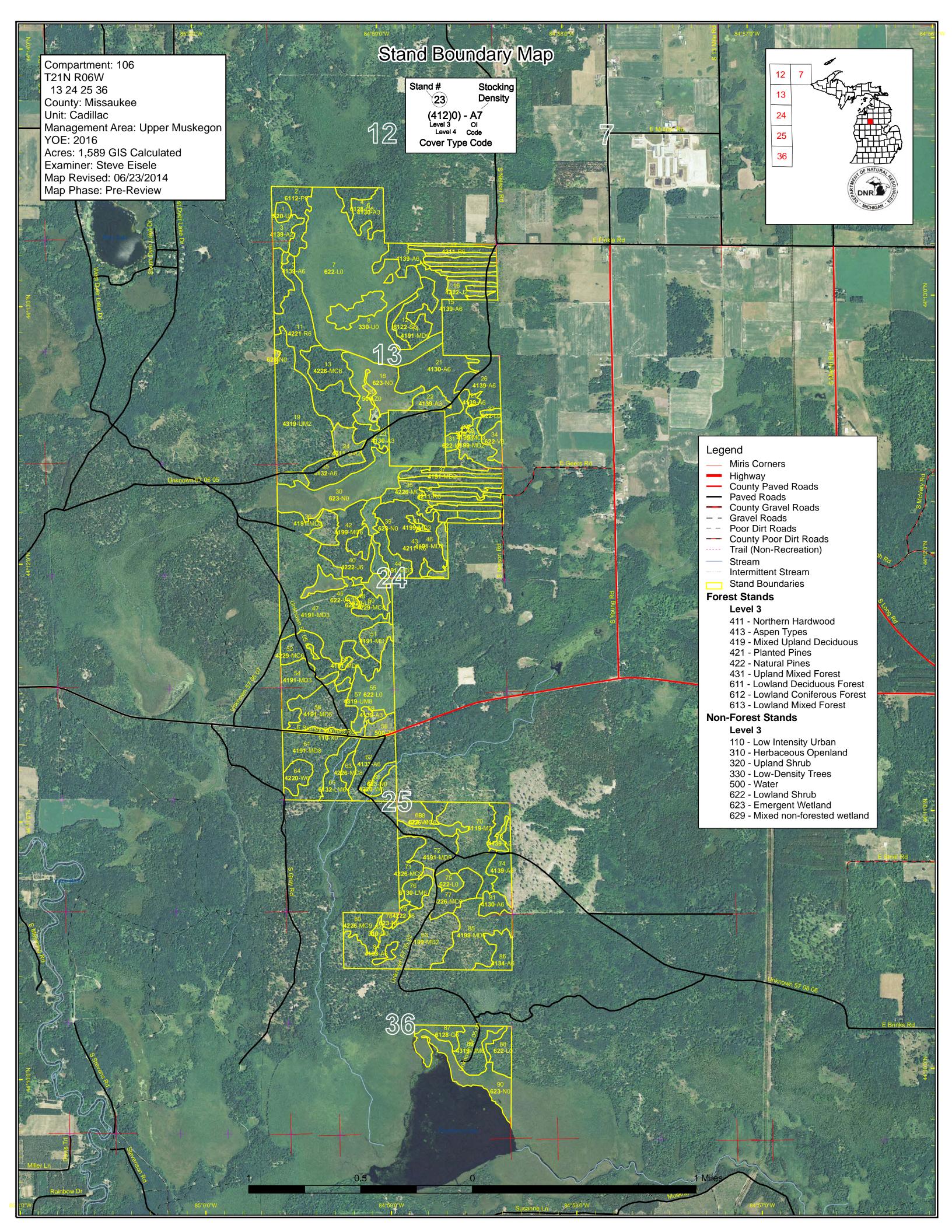
The following reports from the Inventory are attached:

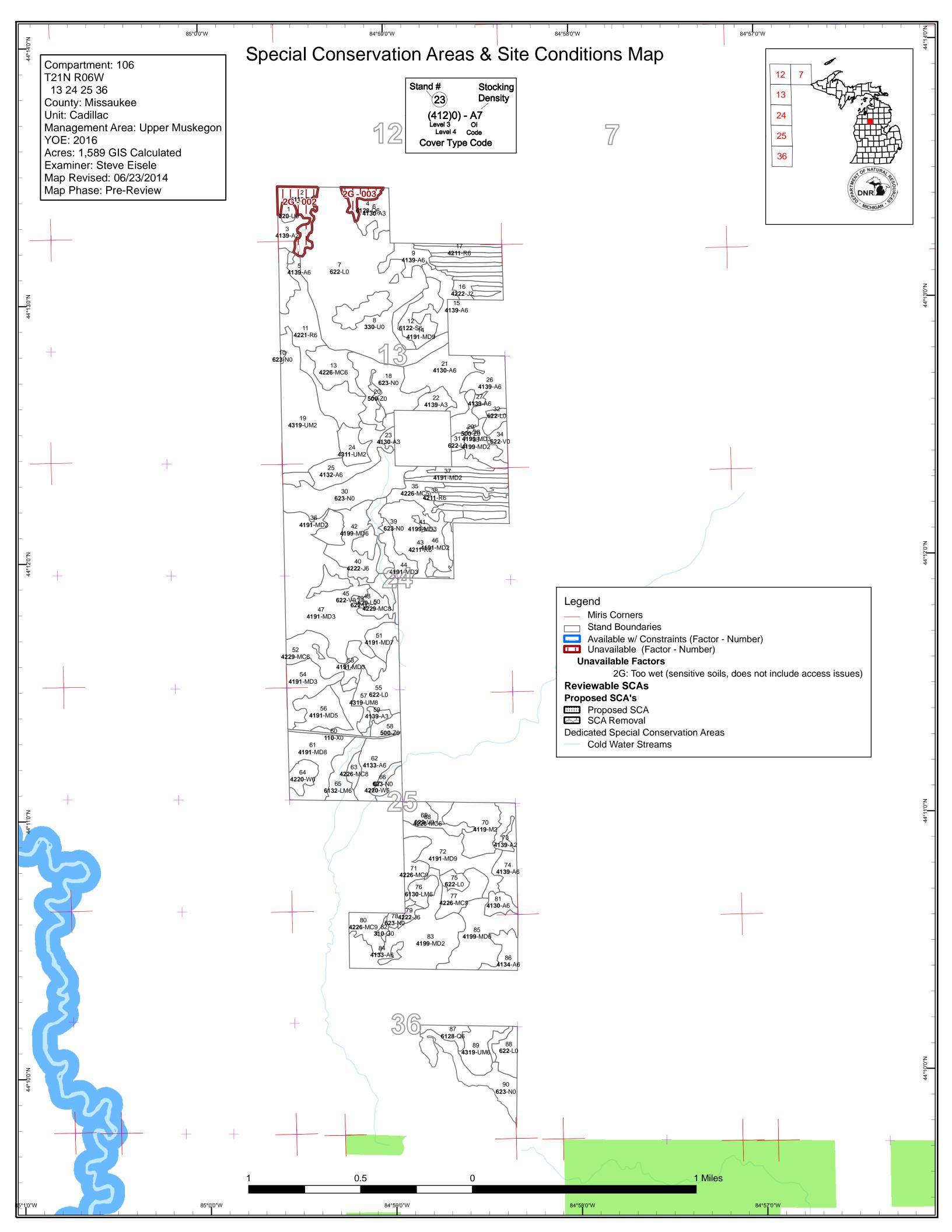
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

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







Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Steven Eisele : Examiner

Compartment 106 Year of Entry 2016



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	/	/	/	/	/	/	/	/	/	/	/	/		1 5	/
Aspen	17	52	83	0	26	52	0	0	0	0	0	0	0	0	231
Bog	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	21	3	0	27	0	0	0	0	0	0	0	0	0	51
Low-Density Trees	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17
Lowland Conifers	0	0	0	0	0	0	0	0	7	0	0	0	0	7	15
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
Lowland Shrub	208	0	0	0	0	0	0	0	0	0	0	0	0	0	208
_owland Spruce/Fir	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Marsh	129	0	0	0	0	0	0	0	0	0	0	0	0	0	129
Mixed Upland Deciduous	89	158	38	8	6	0	0	0	19	0	0	0	0	95	413
Natural Mixed Pines	0	0	0	0	4	0	21	23	0	0	0	0	0	84	131
Northern Hardwood	0	0	27	0	0	0	0	0	0	0	0	0	0	0	27
Red Pine	0	0	0	0	0	96	0	0	0	0	0	0	0	49	145
Upland Mixed Forest	81	0	0	0	0	0	0	0	0	0	0	0	0	40	121
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	9	0	0	0	0	0	0	0	7	15
Total	581	231	150	8	63	181	21	23	27	0	0	0	0	305	1589



AL ST	Cadillac Mgt. Unit Year of Entry 2016										Compartment Total Compartment Acres:	
				Acre	s by T	reatm	ent Ty	pe				
	Commercial Harvest - 419	Tree Planting - 0		C	Other -	0						
	Habitat Cut - 0	Opening Maintena	nce - 0)								
				Cov	/er Ty	pe by l	larve	st Metl	nod			
				in contraction of	ologica de la construcción de la	1100 1100 55	eternood	Chining OS	in the second	Sec.		
	Aspen Types		67	0	0	0	0	0	67			
	Mixed Upland Decidue	ous	50	0	0	0	0	0	50]		
	Natural Pines		32	65	0	0	20	49	166			
	Planted Pines		0	0	0	0	96	0	96			
	Upland Mixed Forest		40	0	0	0	0	0	40			
		Total	189	65	0	0	116	49	419			

S t		Cadi	illac Mgt. Unit	Repo			ents Prescr ting Factor	ibed	Compartment: 106 Year of Entry 2016	DNR DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
11	63106011-Cut	49.3	42210 - Natural Red Pine	High Density Pole	75	1-50	Harvest	Other - Specify in Comments	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Pres</u> Spec		e larger diar	meter oak and pine. R	elease estal	blished r	egen.				
<u>Othe</u> Com	r Protect ments:	regen with	sale spec.							
<u>Next</u> Step										
Propo Start		15								
13	63106013-Cut	20.2	42260 - Natural Pine, Mixed Deciduous	High Density Pole	75	51-80	Harvest	Crown Thinning	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
Pres Spec		rger diamet	er pine to release reg	en and smal	ler pine.	50-70 basa	al area.			
<u>Othe</u> Com	<u>r</u> Regen v <u>ments:</u>	well establis	shed.							
<u>Next</u> Step										
Propo Start		15								
14	63106014-Cut	19.3	4191 - Mixed Upland Deciduous with Conifer	High Density Log	80 9	81-110	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
Pres Spec		ak and cher	ry to leave. Approx. 30	0 ba. Leave	cedar, c	ut all other	species.			
<u>Othe</u> Com	r Alot of v ments:	wet and edg	ge areas that won't be	in sale area						
<u>Next</u> Step										
Propo Start		15								
15	63106015-Cut	14.4	4139 - Aspen, Mixed Deciduous	High Density Pole	45		Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
Pres Spec		ome mast o	ak to leave and a few	aspen island	ds.					
<u>Othe</u> Com	r <u></u> Smaller ments:	diameter a	spen but would be go	od to start a	new age	e class.				
<u>Next</u> Step										
<u>Propo</u> Start		15								

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S t		Cadi	llac Mgt. Unit	Repo			ients Prescri ting Factor	ibed	Compartment: 106 Year of Entry 2016	OF NATURAL PRODUCTS
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17	63106017-Cut	23.2	42110 - Planted Red Pine	High Density Pole	57	141-170	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Pres</u> Spec		cut out defe	ect and crooks. Leave	e 110 to 120	ba					
<u>Othe</u> <u>Com</u>	e <u>r</u> ments:									
<u>Next</u> Step										
<u>Propo</u> Start		15								
25	63106025-Cut	25.0	4132 - Aspen, Jack Pine	High Density Pole	50		Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Pres</u> Spec		ak and blac	k cherry less than 8 in	nch dbh						
<u>Othe</u> <u>Com</u>	r <u>ments:</u>									
<u>Next</u> Step										
Propo Start	<u>osed</u>	15								
26	63106026-Cut	27.2	4139 - Aspen, Mixed Deciduous	High Density Pole	55		Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Pres</u> Spec		ak less thar	n 6 inch DBH. Mark a	few mast o	ak to lea	ve.				
<u>Othe</u> <u>Com</u>	<u>er</u> ments:									
<u>Next</u> Step										
Propo Start		15								
35	63106035-Cut	21.0	42260 - Natural Pine, Mixed Deciduous	Medium Density Pole	60	51-80	Harvest	Single Tree Selection	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
Pres Spec		sawlog oa	k and pine. Regen we	ell establishe	əd.					
<u>Othe</u> Com	e <u>r</u> ments:									
<u>Next</u> Step										
Propo Start		15								

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S t		Cadil	llac Mgt. Unit	Repo			ents Prescri ing Factor	bed	Compartment: 106 Year of Entry 2016	DR NATURAL PRODUCES
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	63106038-Cut	32.7	42110 - Planted Red Pine	High Density Pole	58	141-170	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Pres</u> Spec		e defect and	crooks. Mark to app	orox 110 to 12	20 ba					
<u>Othe</u> Com	er iments:									
<u>Next</u> Step										
Propo Start	<u>osed</u> <u>Date:</u> 10/01/20	15								
43	63106043-Cut	40.2	42110 - Planted Red Pine	High Density Pole	57	141-170	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Pres</u> Spec		cut out defe	ect and crooks. Leave) to 120	ba.				
<u>Othe</u> <u>Com</u>	er iments:									
<u>Next</u> Step										
Propo Start	<u>osed</u> <u>Date:</u> 10/01/20	15								
52	63106052-Cut	30.5	42290 - Natural Mixed Pine	High Density Pole	60	111-140	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Pres</u> Spec		all jack pin	e. Do a crown thin of		ite down	to approx 1	00 ba			
<u>Othe</u> Com	er Protect	regen with s	ale spec.							
<u>Next</u> Step										
Propo Start	<u>osed</u> <u>Date:</u> 10/01/20	15								
57	63106057-Cut	11.5	4319 - Mixed Upland Forest	Medium Density Log	90	51-80	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Pres</u> Spec		all jack pin	e. Mark to cut larger		-	red pine. Le	ave approx 70-8	30 ba.		·
<u>Othe</u> Com	er Spread	out and pate	chy, some wet areas							
<u>Next</u> Step										
<u>Propo</u> Start	<u>osed</u> Date: 10/01/20	15								

ALBA

Compartment: 106 **Report 3 -- Treatments Prescribed** Cadillac Mgt. Unit Year of Entry 2016 with No Limiting Factor S t а CoverType Treatment Acres Size Stand BA Treatment Treatment Cover Type Approval n d Name Density Age Range Type Method Objective Status 61 63106061-Cut 30.8 4191 - Mixed Medium 90 51-80 Harvest Clearcut with 4191 - Mixed Cmpt. Review Upland Deciduous Density Log Reserves Upland Deciduous Proposal with Conifer with Conifer Prescription Remove larger diameter oak and white pine. Regen is well established Specs: Other Comments: Next Steps: Proposed Start Date: 10/01/2015 63106063-Cut 4.4 42260 - Natural Medium 75 81-110 Harvest Clearcut with 42260 - Natural Cmpt. Review 63 Pine, Mixed Density Log Reserves Pine, Mixed Proposal Deciduous Deciduous Prescription Remove larger diameter pine over established regen Specs: Other Comments: Next Steps: **Proposed** Start Date: 10/01/2015 71 63106071-Cut 13.1 42260 - Natural High 75 81-110 Harvest Single Tree 42260 - Natural Cmpt. Review Pine, Mixed Pine, Mixed Selection Proposal Density Log Deciduous Deciduous Prescription Cut all jack pine and maple. Mark larger diameter oak and pine to 60-70 ba Specs: <u>Other</u> Comments: <u>Next</u> Steps: **Proposed** 10/01/2015 Start Date: 63106077-Cut 42260 - Natural 15.3 42260 - Natural High 65 81-110 Clearcut with Cmpt. Review 77 Harvest Pine, Mixed Density Log Reserves Pine, Mixed Proposal Deciduous Deciduous Prescription Cut all jack pine, maple and aspen. Mark oak and white pine to cut. Approx. 70-80 ba. Specs: Other Comments: <u>Next</u> Steps: Proposed

Start Date: 10/01/2015

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Report 3 -- Treatments Prescribed Compartment: 106 Cadillac Mgt. Unit Year of Entry 2016 with No Limiting Factor S t а Treatment BA Treatment Treatment Acres CoverType Size Stand Cover Type Approval n d Name Density Age Range Туре Method Objective Status 63106080-Cut Clearcut with 42260 - Natural Cmpt. Review 80 12.6 42260 - Natural High 70 81-110 Harvest Pine, Mixed Density Log Reserves Pine, Mixed Proposal Deciduous Deciduous Prescription Remove all jack pine and cherry. Mark oak and white pine to 60-70 ba Specs: Other Comments: Next Steps: Proposed 10/01/2015 Start Date: Cmpt. Review 63106089-Cut 28.2 4319 - Mixed High 55 81-110 Harvest Clearcut with 4319 - Mixed 89 Upland Forest Density Reserves Upland Forest Proposal Pole Prescription Cut all but oak and red pine. Specs: <u>Other</u> Small amounts of oak in stand. Leave for mast. Comments: <u>Next</u> Steps: Proposed 10/01/2015 Start Date:

Total Treatment Acreage Proposed: 418.8 - AIIBA

S t		Cadill	ac Mgt. Unit	Report 4		eatment Site Con	ts Prescribed Idition	l with	Compartment: 106 Year of Entry 2016	DNR DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
		#Type!	#Type!							
Spece										
<u>Other</u> Comr										
<u>Next</u> Steps	<u>:</u>									
<u>Propo</u> Start	<u>osed</u> <u>Date:</u> #Type!									
<u>Limiti</u>	ng Factor									
Ac	Total Treatme creage Propose	-	D							

AIIBA

Compartment 106 Year of Entry 2016

Steve Eisele : Examiner

Availability for Management

Acres Total Acres

Dominant Site Conditions NI -20

Acres	Available	Not Available		No	2G
230	230		Aspen	230	
51	51		Jack Pine	51	
17		17	Lowland Aspen/Balsam Poplar		17
15	7	7	Lowland Conifers	7	7
23	23		Lowland Mixed Forest	23	
7	7		Lowland Spruce/Fir	7	
413	413		Mixed Upland Deciduous	413	
131	131		Natural Mixed Pines	131	
27	27		Northern Hardwood	27	
145	145		Red Pine	145	
121	121		Upland Mixed Forest	121	
15	15		White Pine	15	
1,196	1,171	24	Total Forested Acres	1,171	24
	98%	2%	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
002	Not Available	2G: Too wet (sensitive soils, does not include access issues)	17				
C	comments:						
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	8				
С	comments:						



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
Comments			



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservatio Area	n Type	Description	ERA = Ecological Reference Area 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 settler and British outposts, nineteenth century logging camps, mines the Great Lakes, there are shipwrecks and other remains docun be identified by Natural heritage data from the State Historic Pre- this compartment will be implemented in such a manner as to m the sensitive nature of this information, no further detail about lo	terrestrial areas and Great Lakes ments 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 aintain the integrity of these sites. Due to
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish spec year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	ies (e.g., slimy sculpin) to persist from ese conditions due to substantial
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and coop U.S. Fish and Wildlife service for the recovery of threatened and 365, Endangered Species Protection, of the Natural Resources PA 451, and the Federal Endangered Species Act of 1973. This species plans in various stages of review. As of now only two e Plover Habitat.	I endangered species, as governed by Part and Environmental Protection Act, 1994 is an active program, with proposed

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Report 8 – Forested Stands



S t	Cadillac Mgt. Unit			Report 8 –	Forested	Stands Compartment: 106 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6112 - Lowland Aspen	Medium Density Log	16.9	50		Stand swapped from Non-Forested to Forested. very wet
3	4139 - Aspen, Mixed Deciduous	Medium Density	8.5	15		
4	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	7.5	80	111-140	low wet private access
5	4139 - Aspen, Mixed Deciduous	High Density Pole	9.7	28		like stand 12 but more regen and no oak
6	4130 - Aspen	High Density Sapling	13.8	14		cut in 2000 came back well
9	4139 - Aspen, Mixed Deciduous	High Density Pole	11.5	40		low quality
11	42210 - Natural Red Pine	High Density Pole	49.3	Uneven Age	1-50	
12	6122 - Black Spruce	High Density Pole	6.9	50		good edge/cover stand
13	42260 - Natural Pine, Mixed Deciduous	High Density Pole	20.2	Uneven Age	51-80	do an overstory removal of larger diameter pine
14	4191 - Mixed Upland Deciduous with Conifer	High Density Log	19.3	80	81-110	Stand swapped from Non-Forested to Forested.
15	4139 - Aspen, Mixed Deciduous	High Density Pole	14.4	45		small diameters but would be good to start a new age
16	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density	20.8	10		look up cut records previuosly jp strips
17	42110 - Planted Red Pine	High Density Pole	23.2	57	141-170	look up plant records thin remove defect
19	4319 - Mixed Upland Forest	Medium Density	65.1	6		look up plant records scattered planting does not cover whole stand
21	4130 - Aspen	High Density Pole	34.5	28		
22	4139 - Aspen, Mixed Deciduous	High Density Sapling	8.2	7		recently treated look up cut records
23	4130 - Aspen	High Density Sapling	2.9	7		recently treated look up cut records
24	4311 - Pine, Aspen Mix	Medium Density	16.3	6		look up plant records

Report 8 – Forested Stands



S t	Cadillac		Report 8 –	Forested	Stands Compartment: 106 Year of Entry: 2016	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4132 - Aspen, Jack Pine	High Density Pole	25.0	50		
26	4139 - Aspen, Mixed Deciduous	High Density Pole	27.2	55		
27	4139 - Aspen, Mixed Deciduous	High Density Pole	1.5	28		
28	4199 - Other Mixed Upland Deciduous	High Density Sapling	7.8	30		
33	4199 - Other Mixed Upland Deciduous	Medium Density	13.3	7		recently treated look up cut records
35	42260 - Natural Pine, Mixed Deciduous	Medium Density Pole	21.0	60	51-80	do an overstory removal of larger diameters regen well established
36	4191 - Mixed Upland Deciduous with Conifer	Medium Density	8.8	7		treated look up cut records
37	4191 - Mixed Upland Deciduous with Conifer	Medium Density	21.3	14		strips that we're clearcut between red pine strips some overstory residual scattered
38	42110 - Planted Red Pine	High Density Pole	32.7	58	141-170	do a second thin remove defect
40	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	26.9	42		
41	4199 - Other Mixed Upland Deciduous	High Density Sapling	1.4	10		
42	4199 - Other Mixed Upland Deciduous	High Density Pole	6.4	45	81-110	low quality treat next year of entry
43	42110 - Planted Red Pine	High Density Pole	40.2	57	141-170	
44	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	12.9	15		
46	4191 - Mixed Upland Deciduous with Conifer	Medium Density	5.4	7		look up cut records
47	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	98.8	15		look up cut records
50	42290 - Natural Mixed Pine	Medium Density Log	10.3	70	81-110	surrounded by wet stand is an upland island
51	4191 - Mixed Upland Deciduous with Conifer	Low Density Log	10.3	Uneven Age	51-80	has been treated regen just getting established

Report 8 – Forested Stands



S t	Cadillad		Report 8 –	Forested St	ands Compartment: 106 Year of Entry: 2016	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	42290 - Natural Mixed Pine	High Density Pole	30.5	Uneven Age	111-140	spread out and patchy some wet areas
53	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	1.8	7		New stand added. pockets of small diameter trees
54	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	23.8	15		New stand added. look up cut records
56	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	20.3	Uneven Age	51-80	scattered low quality some oak dying
57	4319 - Mixed Upland Forest	Medium Density Log	11.5	Uneven Age	51-80	New stand added.
59	4139 - Aspen, Mixed Deciduous	High Density Sapling	6.2	5		look up cut records
61	4191 - Mixed Upland Deciduous with Conifer	Medium Density Log	30.8	Uneven Age	51-80	
62	4133 - Aspen, Mixed Pine	High Density Pole	23.3	28		look up cut records
63	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	4.4	Uneven Age	81-110	New stand added.
64	42200 - Natural White Pine	High Density Pole	8.9	50	81-110	
65	6132 - Mixed Lowland Forest with Cedar	High Density Pole	15.3	Uneven Age	111-140	wet creek running through middle
67	42200 - Natural White Pine	Medium Density Pole	6.5	Uneven Age	51-80	recently treated look up cut records
68	42260 - Natural Pine, Mixed Deciduous	High Density Pole	3.7	40	81-110	
70	4119 - Mixed Northern Hardwoods	Medium Density	26.5	20		has been burned look up records / ftp?
71	42260 - Natural Pine, Mixed Deciduous	High Density Log	13.1	Uneven Age	81-110	New stand added.
72	4191 - Mixed Upland Deciduous with Conifer	High Density Log	33.2	Uneven Age	51-80	oak is dying and being stolen
73	4139 - Aspen, Mixed Deciduous	Medium Density	3.2	18		treated last year of entry look up cut records
74	4139 - Aspen, Mixed Deciduous	High Density Pole	19.6	18		

All the

S t	Cadillac Mgt. Unit			Report 8 –	Forested	Stands Compartment: 106 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
76	6130 - Fir, Aspen, Maple	High Density Pole	8.1	Uneven Age		New stand added. wet
77	42260 - Natural Pine, Mixed Deciduous	High Density Log	15.3	Uneven Age	81-110	New stand added.
79	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	2.8	28		New stand added.
80	42260 - Natural Pine, Mixed Deciduous	High Density Log	12.6	70	81-110	New stand added.
81	4130 - Aspen	High Density Pole	7.1	18		
83	4199 - Other Mixed Upland Deciduous	Medium Density	59.8	5	1-50	do an overstory removal of larger diameter oak decline regen well established
84	4133 - Aspen, Mixed Pine	High Density Pole	2.5	25		Stand swapped from Non-Forested to Forested.
85	4199 - Other Mixed Upland Deciduous	High Density Pole	37.6	28		some open savannah type areas
86	4134 - Aspen, Spruce/Fir	High Density Pole	11.3	28		some low wet areas
87	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	7.4	Uneven Age		wet!
89	4319 - Mixed Upland Forest	High Density Pole	28.2	Uneven Age	81-110	wet areas hummocy ground need to established private boundary

All the

Report 9 – Nonforested Stands

Compartment: 106 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3205 - Mixed Upland Shrub	3.5	No	Low	thick alder
7	6229 - Mixed lowland shrub	158.6	No	Low	
8	3302 - Low Density Conifer Trees	13.7	No	Low	Stand swapped from Forested to Non-Forested. standing dead cedar
10	6239 - Mixed Emergent Wetland	0.6	No	Low	leather leaf bog
18	6239 - Mixed Emergent Wetland	34.3	No	Low	
20	50 - Water	3.4	No	Low	
29	50 - Water	0.5	No	Low	
30	6239 - Mixed Emergent Wetland	48.0	No	Low	creek running through
31	6229 - Mixed lowland shrub	2.8	No	Low	
32	6229 - Mixed lowland shrub	1.4	No	Low	
34	6225 - Bog	6.1	No	Low	leather leaf bog
39	6239 - Mixed Emergent Wetland	10.4	No	Low	creek running through middle
45	6225 - Bog	6.6	No	Low	leather leaf bog
48	629 - Mixed non-forested wetland	7.0	No	Low	creek running through
49	622 - Lowland Shrub	1.4	Unspecified	Unspecified	merge into 50
55	6229 - Mixed lowland shrub	28.1	No	Low	
58	50 - Water	4.0	No	Low	
60	11 - Low Intensity Urban	2.6	Yes	Unspecified	stoney corners road

Report 9 – Nonforested Stands

Compartment: 106 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
66	6239 - Mixed Emergent Wetland	4.7	No	Low	creek running through middle
69	6225 - Bog	13.3	No	Low	leather leaf bog
75	6229 - Mixed lowland shrub	5.4	No	Low	
78	6239 - Mixed Emergent Wetland	3.3	No	Low	ducks
82	3102 - Grass	2.0	No	Low	
88	6229 - Mixed lowland shrub	3.3	No	Low	small flow in spring
90	6239 - Mixed Emergent Wetland	27.6	No	Low	cranberry lake edge some tamarack trees