

Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 121 Entry Year 2016 Acreage: 1,823 County Missaukee Management Area: Manistee River Valley

Revision Date: 03/19/2014

Stand Examiner: Derek Cross

Legal Description:

T24N R07W, Sections 13-18

Identified Planning Goals:

Vegetation management in the Manistee River Valley Management Area (MA) will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period includes continuing aspen management to maintain early successional habitat for hunting and other wildlife-related recreational opportunities; increasing regeneration of oak; focusing on balancing the red pine age class structure through final harvests and re-planting; and on improving red pine quality through partial harvests. Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; an increased wildland/urban interface and a need to restore barrens communities through prescribed fire; and invasive plant control.

Soil and topography:

Rubicon-Montcalm-Graycalm association: Nearly level to steep, well drained and somewhat excessively drained sandy soils on till plains and moraines. The steepest terrain is located in the parcels bordering Old-66 and in the southwest and northeast quarters of section 18 and the northwest and southwest quarters of section 17.

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

Most neighboring private lands are forested, some of which are large parcels. Desirable acquisitions would be the nwnw quarter of section 13 and the 315 acre parcel that would block in state ownership of section 16.

Unique Natural Features:

There is a red shouldered hawk nest in the vicinity and the compartment also provides potential habitat for goshawk and eastern box turtle.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

No water or Fisheries concerns in compartment.

Wildlife Habitat Considerations:

Greater emphasis should be placed on promoting larger stands of older age and mixed age classes to provide diversity in vertical and horizontal structure in this compartment. Particularly given the potential for red-shouldered hawk. Generally, wildlife cover type goals are no net loss in aspen or oak acres, to protect mast bearing shrubs, to create brush piles adjacent to wetlands, to preferably leave retention in the form of islands or corridors, and to provide coarse woody debris. Featured species of special interest are deer, ruffed grouse, golden-winged warbler and pileated woodpecker. (E. Victory

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact outwash sand and gravel, an end moraine of coarse-textured till and minor coarsetextured till. 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. Gravel pits are located in Section 13 & 18 and potential is good. The compartment is located southwest of Cannon Creek Field. The field has produced from the Stray Sandstone and Detroit River Sour Zone. There are no State leases currently in the Compartment, but State land to the northeast is leased.

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:

Recreational Facilities and Opportunities:

There are approximately 1.8 miles of snowmobile trail (trail #651) running through section 17 and 18, and 0.3 miles of North Missaukee ORV route in the Northwest corner of section 18. Trail protection specifications should be included in any timber sale which potentially impacts these recreational trails. Excellent ruffed grouse, deer, and mushroom hunting opportunities are provided within this compartment. (T.M.N. 3/14).

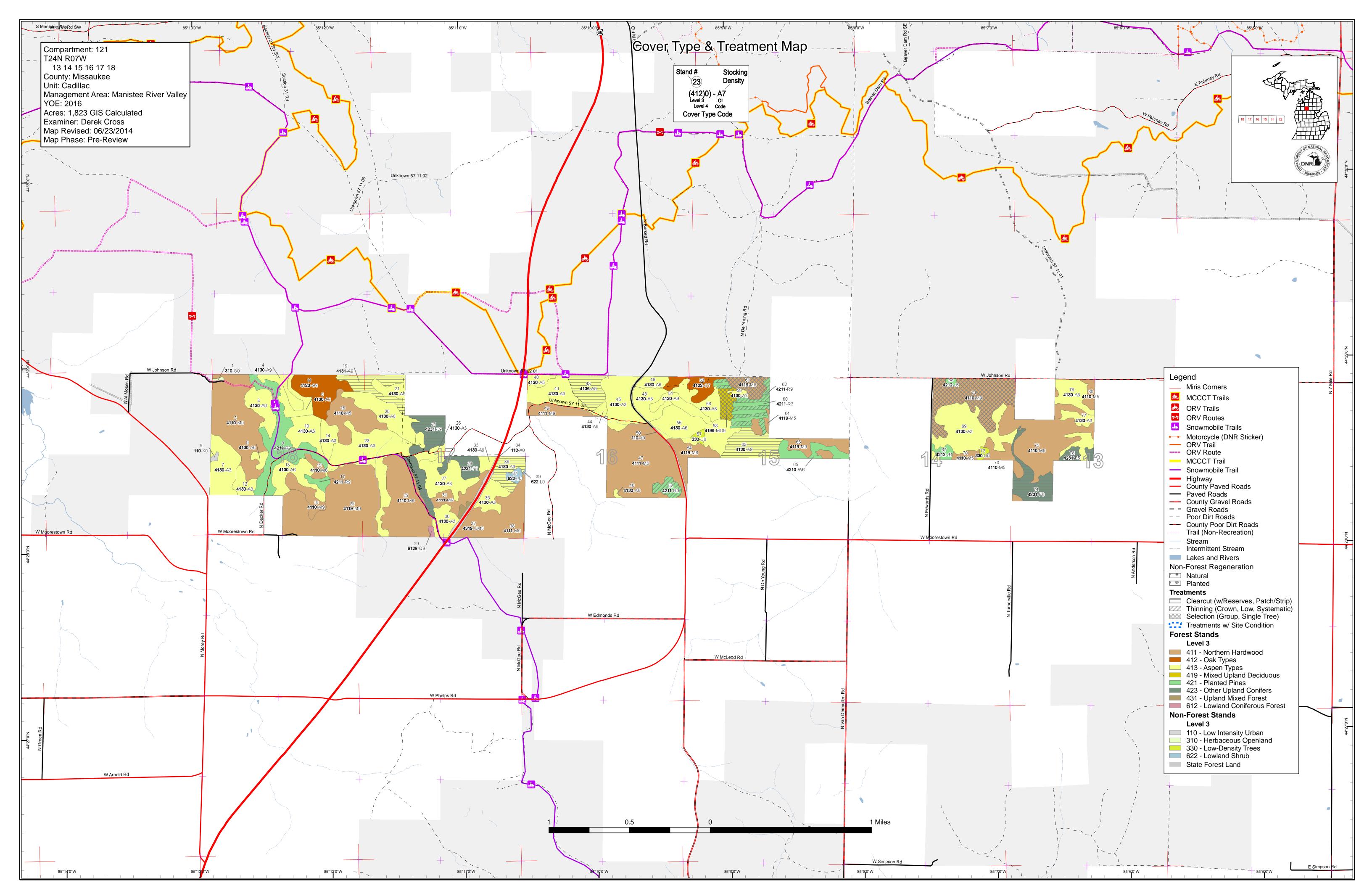
Fire Protection:

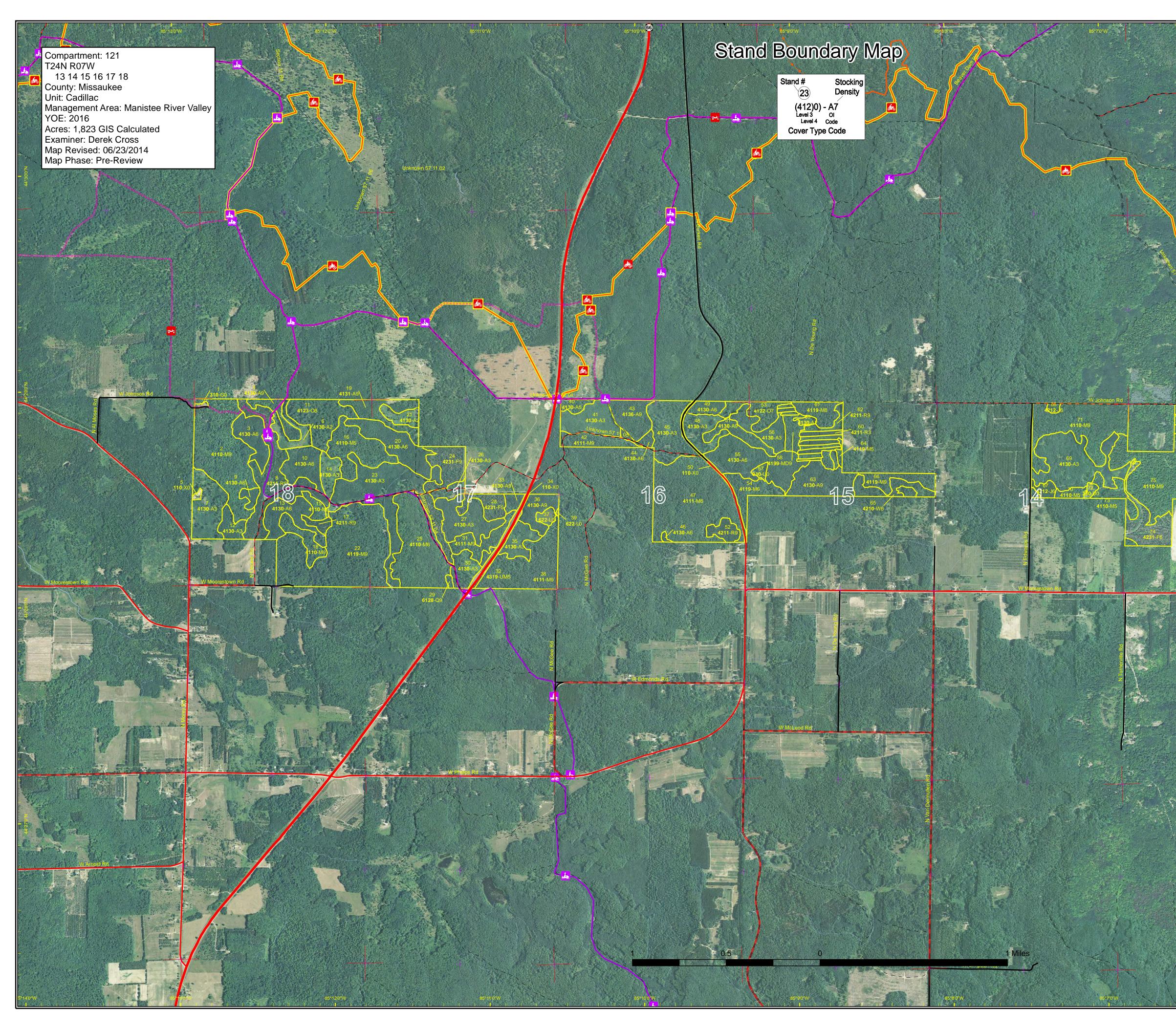
The fuels as managed in this compartment is conducive to moderate fire protential. Human activities in the area would add to fire ignition protential. Area has not had fire activities in recent past history. BET 4-14

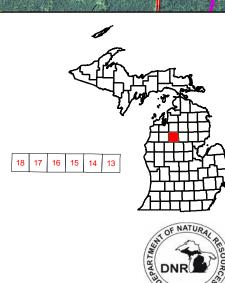
Additional Compartment Information:

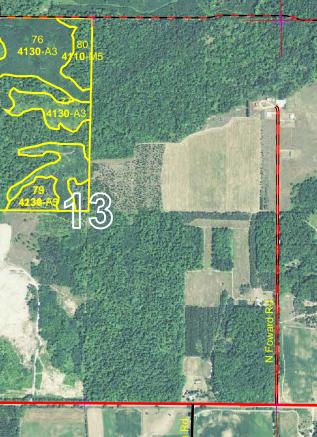
The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas 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









Legend

	Miris Corners
*	MCCCT Trails
30	ORV Trails
<mark>ہے</mark>	ORV Routes
4	Snowmobile Trails
_	MCCCT Trail
	Snowmobile Trail
••-	Motorcycle (DNR Sticker)
	ORV Trail

- **ORV** Route
- Highway
- County Paved Roads

- County Paved Roads
 Paved Roads
 County Gravel Roads
 Gravel Roads
 Gravel Roads
 Poor Dirt Roads
 County Poor Dirt Roads
 Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

Level 3

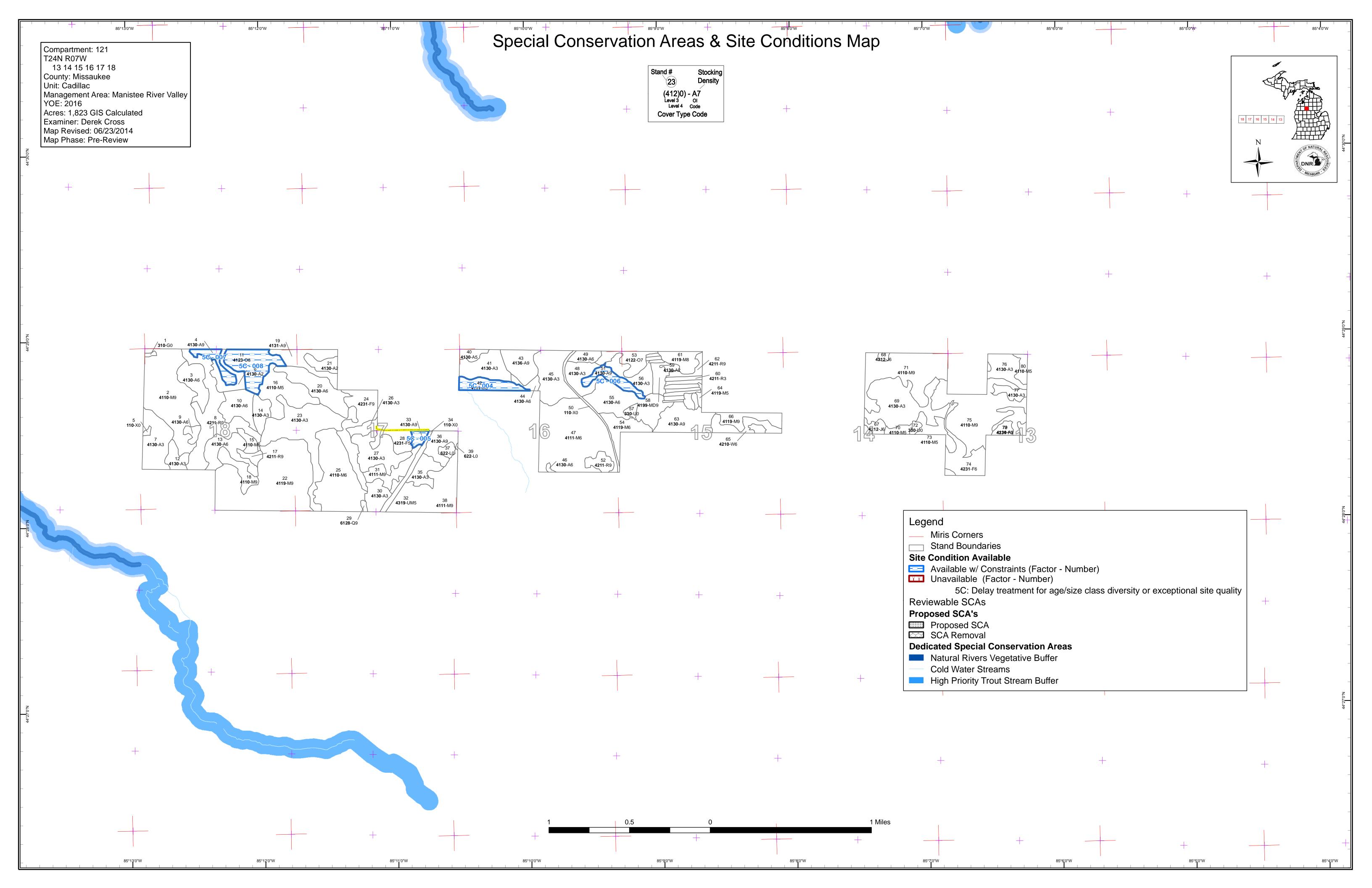
- 411 Northern Hardwood

- 411 Northern Hardwood
 412 Oak Types
 413 Aspen Types
 419 Mixed Upland Deciduous
 421 Planted Pines
 423 Other Upland Conifers
 431 Upland Mixed Forest
 612 Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 110 Low Intensity Urban 310 Herbaceous Openland 330 Low-Density Trees 622 Lowland Shrub



Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Derek Cross : Examiner

Compartment 121 Year of Entry 2016



Age Class

						U										
	/	6'0	10°19	67-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	96 ^{,0} 9	DA CAR	Sc. Sc.	00.00	P. D.	69-00 00-00	66.00	601.00	0 ²¹ .021	120× 1710	of the A	
Aspen	215	228	155	14	0	127	0	0	0	0	0	0	0	0	739	
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Jack Pine	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8	
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Mixed Upland Deciduous	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11	
Northern Hardwood	0	0	0	0	5	186	189	200	193	0	0	0	0	0	773	
Oak	0	0	0	0	0	18	0	0	35	0	0	0	0	0	53	
Red Pine	0	12	0	0	0	93	0	0	0	0	0	0	0	0	105	
Upland Mixed Forest	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	
Upland Spruce/Fir	0	0	0	0	0	87	0	0	0	0	0	0	0	0	87	
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18	
White Pine	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15	
Total	244	240	155	14	5	536	189	211	228	0	1	0	0	0	1823]



Michigan .	Cadillac Mgt. Unit Year of Entry 2016										Compartment Total Compartment Acres:	
				Acre	s by T	reatm	ent Ty	pe				
	Commercial Harvest - 303	Tree Planting - 0		C	Other -	0						
	Habitat Cut - 0	Opening Maintena	nce - 2	2								
				Cov	/er Tyj	pe by	Harve	st Meth	nod			
				Color C	ole cot	Res Contraction	esternood	Chining Or	in the second	Sector Res.		
	Aspen Types		96	0	0	0	0	0	96	j		
	Mixed Upland Decidu	ious	0	11	0	0	0	0	11			
	Northern Hardwood		0	82	0	0	0	0	82]		
	Other Upland Conifer	rs	87	0	0	0	0	0	87]		
	Planted Pines		0	0	0	0	27	0	27]		
		Total	183	93	0	0	27	0	303	1		

Cadillac Mgt. Unit Report 3 Treatments Preso s with No Limiting Factor t							bed	Compartment: 121 Year of Entry 2016	DRR DRR C	
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
19	63121019-Cut	24.0	4131 - Aspen, Oak	High Density Log	58 J	111-140	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prese</u> Spec		rvest asper	n retaining an oak cor	mponent sca	ttered tr	oughout the	e harvest area. L	eave small pocket	s of aspen for retention	
<u>Othe</u> Com	<u>r</u> Include ments:	grouse dru	mming log and top re	tention/brush	n pile cre	eation spec	s in the sale write	e up.		
<u>Next</u> Steps										
<u>Propo</u> <u>Start I</u>		15								
24	63121024-Cut	36.8	42310 - Planted Spruce	High Density Log	57	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
<u>Preso</u> Spec		all spruce	leaving all decidous	trees except	aspen. (Create brus	sh piles along ap	en edge.		
<u>Othe</u> Com	<u>r</u> No reter ments:	ntion due to	bark beetle.							
<u>Next</u> Steps										
<u>Propo</u> Start I		14								
28	63121028-Cut	14.1	42310 - Planted Spruce	Medium Density Pole	57		Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
<u>Preso</u> Spec		all spruce	leaving all deciduous	s trees excep	t aspen.	Create bru	ish piles along a	spen edge.		
<u>Othe</u> Com	<u>r</u> No reter ments:	ntion due to	bark beetles.							
<u>Next</u> Steps	<u>s:</u>									
<u>Propo</u> <u>Start [</u>		14								
36	63121036-Cut	16.6	4130 - Aspen	High Density Log	57		Harvest	Clearcut with Reserves	412 - Oak	Cmpt. Review Proposal
<u>Prese</u> Spec			ed maple leaving oak				fer the wetland a	areas dropping sev	veral trees into the edge	s for herp
<u>Othe</u> Com	<u>r</u> Include ments:	grouse dru	mming log and top re	tention/brush	n pile cre	eation spec	s in the sale write	e up.		
<u>Next</u> Steps										
<u>Propo</u> <u>Start [</u>		15								

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			Cad	illac Mgt. Unit	Repo			nents Prescri	bed	Compartment: 121	AND PROVIDENT
S t						with	No Limi	ting Factor		Year of Entry 2016	DNR DNR
a n d		itment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	63121	043-Cut	22.7	4136 - Aspen, Mixed Conifer	High Density Log	54 J		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Pres</u> Spec				red maple leave scatte of the stand into a rete						orate the small band of the stand.	hemlock on
<u>Othe</u> Com	er_ Iments:		-	mming log and top re tion specs for snowm					e up.		
<u>Next</u> Step											
Propo Start		10/01/20 ⁻	15								
52	63121	052-Cut	9.5	42110 - Planted Red Pine	High Density Log	57	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Pres</u> Spec		Thin red	pine down	n to 80-100 BA. Focus	s on removing	g low qu	ality and st	ressed trees first			
<u>Othe</u> Com	er iments:										
<u>Next</u> Step	<u>s:</u>										
Propo Start		10/01/20 ⁻	15								
58	63121	058-Cut	10.5	4199 - Other Mixed Upland Deciduous	High Density Log	77	111-140	Harvest	Group Selection	4116 - Mixed N. Hardwood - Aspen	Cmpt. Review Proposal
<u>Pres</u> Spec		Mark 30	-50 BA of o	oak, sugar maple and	beech to lea	ive whei	re available	. Remove all asp	en and red maple.		
<u>Othe</u> Com	e <u>r</u> iments:	Include g	grouse dru	mming log and top re	tention/brush	pile spe	ecs in sale	write up.			
<u>Next</u> Step	IS:										
Propo Start		10/01/20 ⁻	15								
61	63121	061-Cut	14.9	4119 - Mixed Northern Hardwoods	Medium Density Log	73	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Pres</u> Spec				60-80 BA. Focus on large canopy gaps fo			ed poles an	d providing crowr	n spacing for crop t	rees. Harvest over ma	ure trees as
<u>Othe</u> Com	e <u>r</u> iments:										
<u>Next</u> Step											
Propo Start		10/01/20 ⁻	15								
62	63121	062-Cut	17.8	42110 - Planted Red Pine	High Density Log	57 9	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Pres</u> Spec		Thin red	pine strips	s down to 100-120 BA	L .						
<u>Othe</u> Com	er_ iments:										
<u>Next</u> Step	IS:										
Propo Start	<u>osed</u> Date:	10/01/20 ⁻	15								

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S t		Cadil	lac Mgt. Unit	Repo			ients Prescri ting Factor	bed	Compartment: 121 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
63	63121063-Cut	32.9	4130 - Aspen	High Density Lo	51 g		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prese</u> Spec		all aspen a	nd red maple leavin	ıg oak, small	pines ar	nd hemlock				
<u>Othe</u> Com	<u>r</u> Include <u>(</u> ments:	grouse drum	nming log and top re	etention/brusl	h pile sp	ecs in the s	ale write up.			
<u>Next</u> Steps										
<u>Propo</u> <u>Start I</u>		15								
71	63121071-Cut	67.4	1110 - Sugar Maple Association	High Density Lo	87 g	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prese</u> Spec		dwood to 60	9-90 BA focus on re	moving beec	h and lov	w quality st	ems. Create can	opy gaps to aid in	regeneration.	
<u>Othe</u> Com	<u>r</u> ments:									
<u>Next</u> Steps										
<u>Propo</u> Start I		15								
74	63121074-Cut	28.6	42310 - Planted Spruce	High Density Pole	57	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
Prese Spec		all spruce le	eaving any deciduo	us trees.						
<u>Othe</u> Com	rNo reten ments:	tion due to l	bark beetles.							
<u>Next</u> Steps										
<u>Propo</u> Start I		14								
78	63121078-Cut	7.6	42310 - Planted Spruce	Medium Density Pole	57		Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
Preso Spec		oruce trees	leaving all deciduou	us trees.						
<u>Othe</u> Com	<u>r</u> No reten ments:	tion due to l	bark beetle. Create	brush piles a	along asp	oen edges.				
<u>Next</u> Steps										
Propo Start I		14								

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S t		Cadi	illac Mgt. Unit	Repo			nents Prescri ting Factor	Compartment: 121 Year of Entry 2016	DNR DNR CHIGAN			
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status		
72	NF_63121072- NonFor	2.5	3303 - Mixed Low Density Trees				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Decision - Incomplete		
	Prescription General habitat manipulation for non-forested, herbaceous type. Treatments may include manual or mechanical removal/manipulation of woody Specs: plants, mowing, prescribed fire, use of herbicides, tillage, and planting herbaceous and or mast producing plants.											
<u>Othe</u> Com	e <u>r</u> ments:											
Next												

Proposed Start Date: Unspecified

> Total Treatment Acreage Proposed: 305.9

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S t		Cadill	ac Mgt. Unit	Report 4		eatment Site Con	Compartment: 121 Year of Entry 2016	DI NATURAL PLANE		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
		#Type!	#Type!							
<u>Spec</u>										
<u>Comr</u> <u>Next</u> <u>Steps</u>										
Propo Start	<u>osed</u> <u>Date:</u> #Type!									
<u>Limiti</u>	ng Factor									
Ac	Total Treatme creage Propose		0							

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Compartment 121 Year of Entry 2016

Derek Cross : Examiner

Availability for Management

Total	Acres	Acres		Domina	nt Site	e Conditions
Acres	Available	Not Available		No	5C	
738	738		Aspen	708	30	
8	8		Jack Pine	8		
1	1		Lowland Conifers	1		
11	11		Mixed Upland Deciduous	11		1
773	773		Northern Hardwood	757	16	
53	53		Oak	18	35	1
105	105		Red Pine	105		
2	2		Upland Mixed Forest	2		
87	87		Upland Spruce/Fir	87		
15	15		White Pine	15		1
1,793	1,793		Total Forested Acres	1,712	82	1
	100%		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 and Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16				
Co	mments:						
Ex	ceptional site qua	lity retain for ten years treatin	g next rol	ation.			
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5				
Co	mments:						

		adillac Mgt. Unit Cross : Examiner	Report 5 – Site Conditions	Compartment 121 Year of Entry 2016
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	
Co	mments:			
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	
Co	mments:			
Th	is is the only old	der aspen in this area. Hold for a	ge class diversity.	
008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	
Co	mments:			





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.

Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area				
SCA Cold Water A c Stream sto yea cor		A coldwater stream has temperature and dissolved oxygen cor stocked trout populations and those of other coldwater fish spe year to year. Coldwater streams in Michigan typically provide th contributions of groundwater to their stream flows. Such stream designated as trout resources by Fisheries Order 210.	ecies (e.g., slimy sculpin) to persist from hese conditions due to substantial				

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Report 8 – Forested Stands



S t	Cadillac Mgt. Unit			Report 8	- Forested	Stands Compartment: 121 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4110 - Sugar Maple Association	High Density Log	85.6	67	81-110	Good looking hardwood lots of saplings in the understory.
3	4130 - Aspen	High Density Pole	21.1	27		Good looking aspen poles.
4	4130 - Aspen	High Density Log	11.2	59		Snowmobile trail passes thru stand. Avoid winter harvest
6	4130 - Aspen	Medium Density	14.7	7		Young aspen regen
7	4130 - Aspen	High Density Sapling	34.2	7		Well stocked aspen regen stand. There are large oaks scattered throughout the stand. The aspen regen looks good.
8	42110 - Planted Red Pine	High Density Log	60.3	57	141-170	Decidous regen heavily browsed. Trace of red oak in canopy.
9	4130 - Aspen	High Density Pole	5.0	16		Good looking aspen regen.
10	4130 - Aspen	High Density Pole	23.2	27		Good looking aspen poles.
11	4123 - Red Oak	Medium Density Log	35.4	87	81-110	Large oaks with mixed regen underneath. Looks good at this time no entry needed.
12	4130 - Aspen	High Density Sapling	10.7	16		Well stocked aspen regen stand. There is no oak in the over story but there are overstory oaks along the edges.
13	4130 - Aspen	High Density Pole	25.3	27		Good looking aspen poles
14	4130 - Aspen	High Density Sapling	12.4	7		Aspen regen with mature oaks scatterd throughout the stand.
15	4110 - Sugar Maple Association	High Density Pole	6.3	51	81-110	Small hardwood stand with EAB and BBD present. Low density beech and ash would not make entry viable.
16	4110 - Sugar Maple Association	Medium Density Pole	37.6	54	51-80	Good looking hardwood pole stand. There will be some nice sugar maple saw logs here in the future.
17	42110 - Planted Red Pine	High Density Log	5.0	57	141-170	
18	4110 - Sugar Maple Association	High Density Log	14.2	64	51-80	Hardwood ridge thinned last entry period.
19	4131 - Aspen, Oak	High Density Log	24.0	58	111-140	



S t	Cadillac	Cadillac Mgt. Unit				Stands Compartment: 121 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4130 - Aspen	High Density Pole	34.2	27		New stand added. Aspen pole stand varies in size and age compared to stand 20.
21	4130 - Aspen	Medium Density	9.7	7		Aspen and oak regen. Scattered large oaks remain from previous stand.
22	4119 - Mixed Northern Hardwoods	High Density Log	125.5	86	51-80	Good looking hardwood. Stand contains a good amount of oak. Thinned last rotation.
23	4130 - Aspen	High Density Sapling	71.9	16		Aspen regen looks good at this time. Large oaks scatterd throughout the stand.
24	42310 - Planted Spruce	High Density Log	36.8	57	81-110	Pockets of mortality present
25	4110 - Sugar Maple Association	High Density Pole	70.2	73	81-110	Good looking hardwood pole stand.
26	4130 - Aspen	High Density Sapling	7.3	4		Aspen regen with mature oaks scatterd throughout.
27	4130 - Aspen	High Density Sapling	33.2	16		Good looking aspen regen. Lots of cottontail rabbit tracks.
28	42310 - Planted Spruce	Medium Density Pole	14.1	57		There are numerous pockets of mortality in the white spruce strips. The aspen regen that has sprouted in the pockets and in the cut strips looks very good. Trace of red oak and cherry scattered throughout the stand.
29	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	1.4	107	81-110	Small pocket of hemlock and yellow birch with a trace of cedar there is also a small stream/spring in stand.
30	4130 - Aspen	High Density Sapling	15.0	7		Regenerating aspen stand looks good at this time.
31	4111 - S.Maple, Hard Mast Association	High Density Log	18.3	74	51-80	Good looking hardwood stand. Was thinned last rotation good regeneration present.
32	4319 - Mixed Upland Forest	Medium Density Pole	2.3	57	81-110	This is a planted pocket of white spruce with scattered large red oaks.
33	4130 - Aspen	High Density Log	5.1	57		Rifle range borders north edge of stand. This land owner will have to be contacted for access when cutting stands 27 and 33.
35	4130 - Aspen	High Density Sapling	15.4	7		Good looking aspen regen with mature oaks scatterd throughout stand.
36	4130 - Aspen	High Density Log	16.6	57		Include grouse drumming log and/or coarse woody debris specs in the sale write up.

Report 8 – Forested Stands



S t	Cadilla	c Mgt. Unit		Report 8	- Forested	Stands Compartment: 121 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	4111 - S.Maple, Hard Mast Association	High Density Log	56.0	77	81-110	There was no white wash present on the beech. The ash in this stand is on its way out.
40	4130 - Aspen	Medium Density Pole	6.1	32	81-110	This is a well stocked aspen pole stand with some scattered oaks present.
41	4130 - Aspen	High Density Sapling	27.4	7		This stand was harvested last rotation and is regenerating nicely.
42	4111 - S.Maple, Hard Mast Association	High Density Log	16.4	79	111-140	There is little to no regeneration in the western portion of this stand. Hemlock focused in the eastern end of the stand. This area was being heavily used by deer as a bedding area.
43	4136 - Aspen, Mixed Conifer	High Density Log	22.7	54		Band of Hemlock on the west side of stand forms a buffer strip between two age classes of aspen.
44	4130 - Aspen	High Density Pole	5.3	17		Well stacked aspen pole stand with scattered red oaks in the overstory.
45	4130 - Aspen	High Density Sapling	37.8	7		Aspen regen with mature oaks scattered throughout
46	4130 - Aspen	High Density Pole	1.0	20		Aspen pole stand looks good at this time. Lots of deer activity in the drainage to the west of this stand.
47	4111 - S.Maple, Hard Mast Association	High Density Pole	108.1	57	51-80	EAB and BBD present in stand. Ash trees have been heavily worked on by woodpeckers.
48	4130 - Aspen	High Density Sapling	20.0	3		Aspen regen with mature oaks scattered and older aspen present in retention pockets.
49	4130 - Aspen	High Density Pole	8.0	32		Good looking aspen poles.
51	4130 - Aspen	High Density Log	14.4	56	141-170	Young aspen surrounds stand.
52	42110 - Planted Red Pine	High Density Log	9.5	57	141-170	Good looking red pine
53	4122 - Oak, Pine	Low Density Log	17.6	57	1-50	Fairly open pine oak mix surrounded by young aspen
54	4119 - Mixed Northern Hardwoods	High Density Pole	19.5	53	51-80	Oak is mainly grouped on the ridges. Good looking pole stand will not need a treatment this entry period.
55	4130 - Aspen	High Density Pole	49.8	23		Aspen pole stand heavier to big tooth on the east end.
56	4130 - Aspen	High Density Sapling	19.3	17		Aspen regen stand approximately 20 ft tall at this time.

Report 8 – Forested Stands



S t	Cadillad	c Mgt. Unit		Report 8	- Forested	Stands Compartment: 121 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	4199 - Other Mixed Upland Deciduous	High Density Log	10.5	77	111-140	
59	4130 - Aspen	Medium Density	2.5	3		
60	42110 - Planted Red Pine	High Density Sapling	12.2	17		Red Pine saplings approximately 20 ft tall. Oak saplings mixed in sparodically.
61	4119 - Mixed Northern Hardwoods	Medium Density Log	14.9	73	111-140	EAB present in stand
62	42110 - Planted Red Pine	High Density Log	17.8	57	171-200	Red Pine planation that is in narrow strips younger red pine between strips.
63	4130 - Aspen	High Density Log	32.9	51		Mature aspen stand 6-7 stick average. Trace amount of mature white pine there are also scattered hemlock saplings also present.
64	4119 - Mixed Northern Hardwoods	Medium Density Pole	5.3	73	51-80	
65	42100 - Planted White Pine	High Density Pole	15.4	52	111-140	
66	4119 - Mixed Northern Hardwoods	High Density Log	19.1	71	81-110	This stand was thinned last rotation and looks good.
67	42120 - Planted Jack Pine	High Density Pole	5.5	53		The understory of this stand is thick with hardwood whips.
68	42120 - Planted Jack Pine	High Density Pole	2.0	53		treat w 68
69	4130 - Aspen	High Density Sapling	62.4	14		Good looking aspen regen
70	4110 - Sugar Maple Association	Medium Density Pole	5.2	49	51-80	This stand was thinned last rotation no management needed at this time.
71	4110 - Sugar Maple Association	High Density Log	67.4	87	111-140	Good looking hardwood, the BA is variable depending on location within the stand.
73	4110 - Sugar Maple Association	Medium Density Pole	14.8	56	51-80	This stand was thinned last rotation no management needed at this time.
74	42310 - Planted Spruce	High Density Pole	28.6	57	81-110	Pockets of mortality from bark beetles after last thinning. There is a trace of decidous trees present less than 2%. Maple, cherry and some aspen.

S t	Cadillad	Cadillac Mgt. Unit			– Forested	Stands Compartment: 121 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	4110 - Sugar Maple Association	High Density Log	82.3	63	81-110	This stand was thinned last rotation. There are a lot of beech whips coming up in the understory.
76	4130 - Aspen	High Density Sapling	20.3	14		Aspen regen looking good
77	4130 - Aspen	High Density Sapling	8.1	3		This stand is young aspen regen that is coming in nicely.
78	42310 - Planted Spruce	Medium Density Pole	7.6	57		This stand was row thinned last rotation. There are areas of pocket mortality from bark beetle. The strips that were removed are filling in nicely with aspen.
79	4130 - Aspen	High Density Sapling	10.5	3		Young aspen regen stand that appears to be coming in nicely.
80	4110 - Sugar Maple Association	Medium Density Pole	6.7	63	51-80	

Report 9 – Nonforested Stands

Compartment: 121 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3102 - Grass	1.0	No	Unspecified	
5	11 - Low Intensity Urban	1.2	No	Unspecified	Old gravel pit
34	11 - Low Intensity Urban	10.2	No	Unspecified	
37	6229 - Mixed lowland shrub	4.5	No	Low	grass on edge some lab tea visible
39	6229 - Mixed lowland shrub	0.3	No	Low	brush visible on edge along with some tall grasses
50	11 - Low Intensity Urban	6.4	No	Unspecified	
57	3303 - Mixed Low Density Trees	3.1	No	Unspecified	Stand swapped from Forested to Non-Forested. Tag alder with cattails in pockets. Trees concentrated along edges.
72	3303 - Mixed Low Density Trees	2.5	No	Low	Aspen clone in center of opening and encroaching on edges.