

Compartment Review Presentation

Gaylord Forest Management Unit Compartment 125 Entry Year 2016 Acreage: 1,202 County Emmet Management Area: Chandler Hills

Revision Date: 02/27/2014

Stand Examiner: Shannon Harig

Legal Description:

T35N R04W Sec. 27,28,32,33,34

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and topography:

Soils are mostly of the Carbondale-Tawas-Roscommon Association. Topography is level throughout the compartment.

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

The land surrounding this compartment is mostly residential, especially around the lakes. The state land is fairly contiguous.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains portions of Minnehaha Creek, Silver Creek, and Mud Creek, and is adjacent to Pickerel Lake, which is part of the Inland Waterway. All of the streams are designated trout streams. A small coldwater stream flows through stand 19. Since the management goal is to regenerate lowland conifer, the standard 100' buffer (no clearcut) should be maintained adjacent to this stream. Some map layers also show a small coldwater stream flowing through Stand 14 that was not obvious during inventory. If further investigation reveals this to be a true drainage, an appropriate buffer should be maintained.

Wildlife Habitat Considerations:

Treatments in this compartment will maintain age class diversity in lowland conifers/aspen while creating early successional habitat benifiting deer, grouse, and woodcock.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 50 and 200 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is quarried for stone and cement products. Gravel pits are found in this area and gravel potential appears to be good. The nearest oil and gas production, the Antrim Shale gas play, is located 18 miles to the south. This area was previously leased for Collingwood Formation development and a few leases are still located in the area.

Vehicle Access:

Poor access to a majority of this compartment.

Survey Needs:

Recreational Facilities and Opportunities:

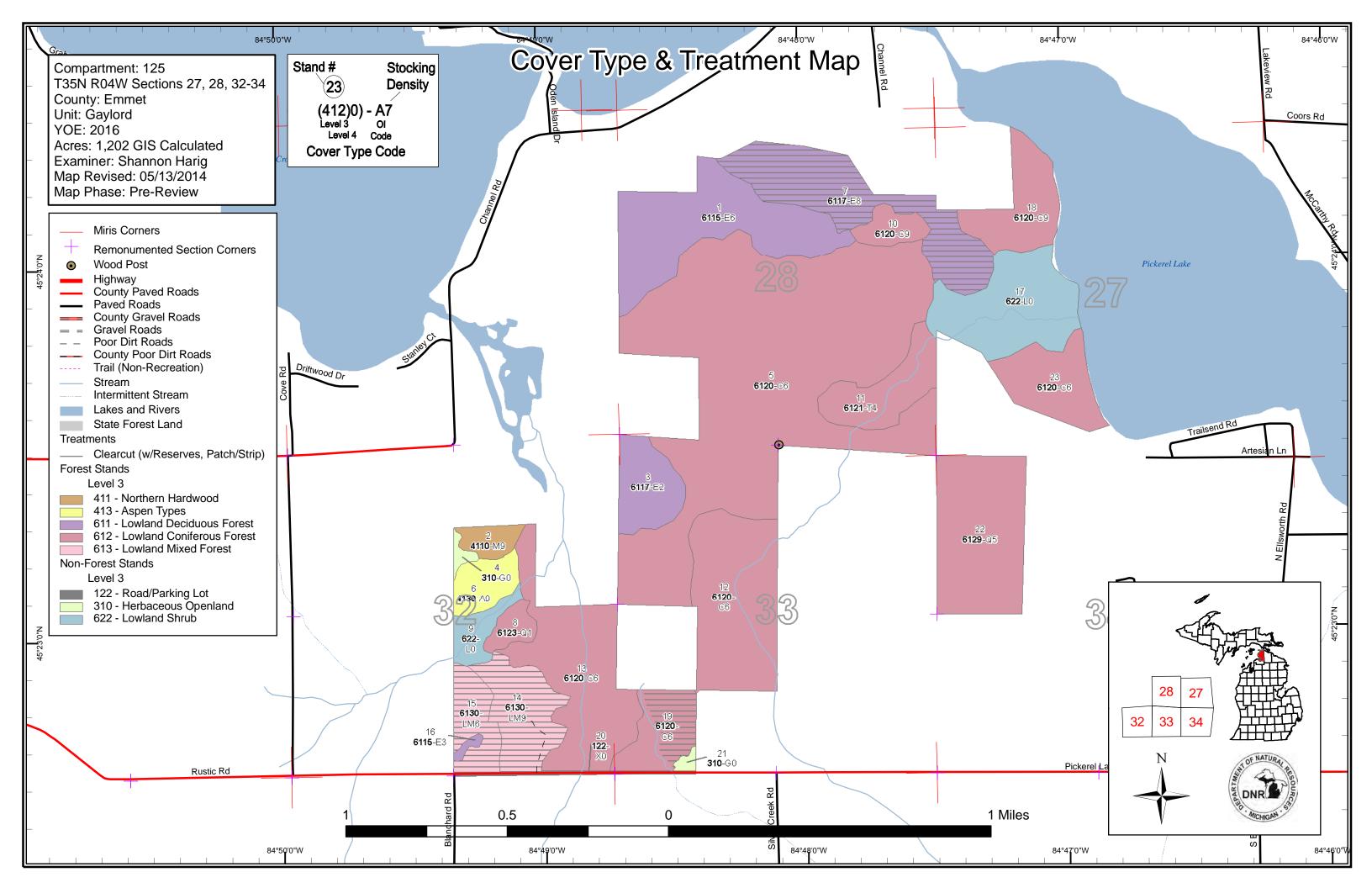
No developed facilities in this compartment. Recreational opportunities are restricted by access.

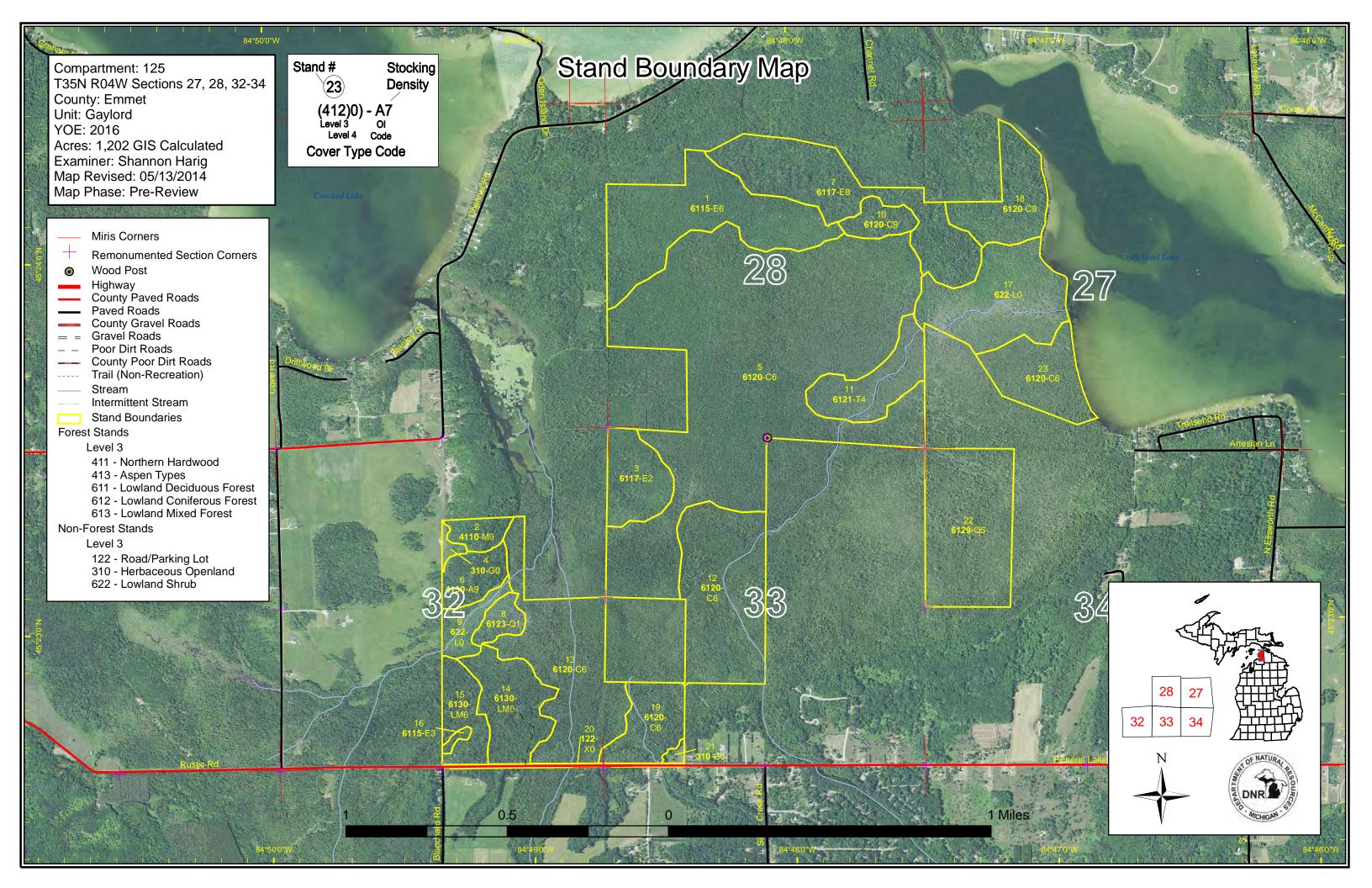
Fire Protection:

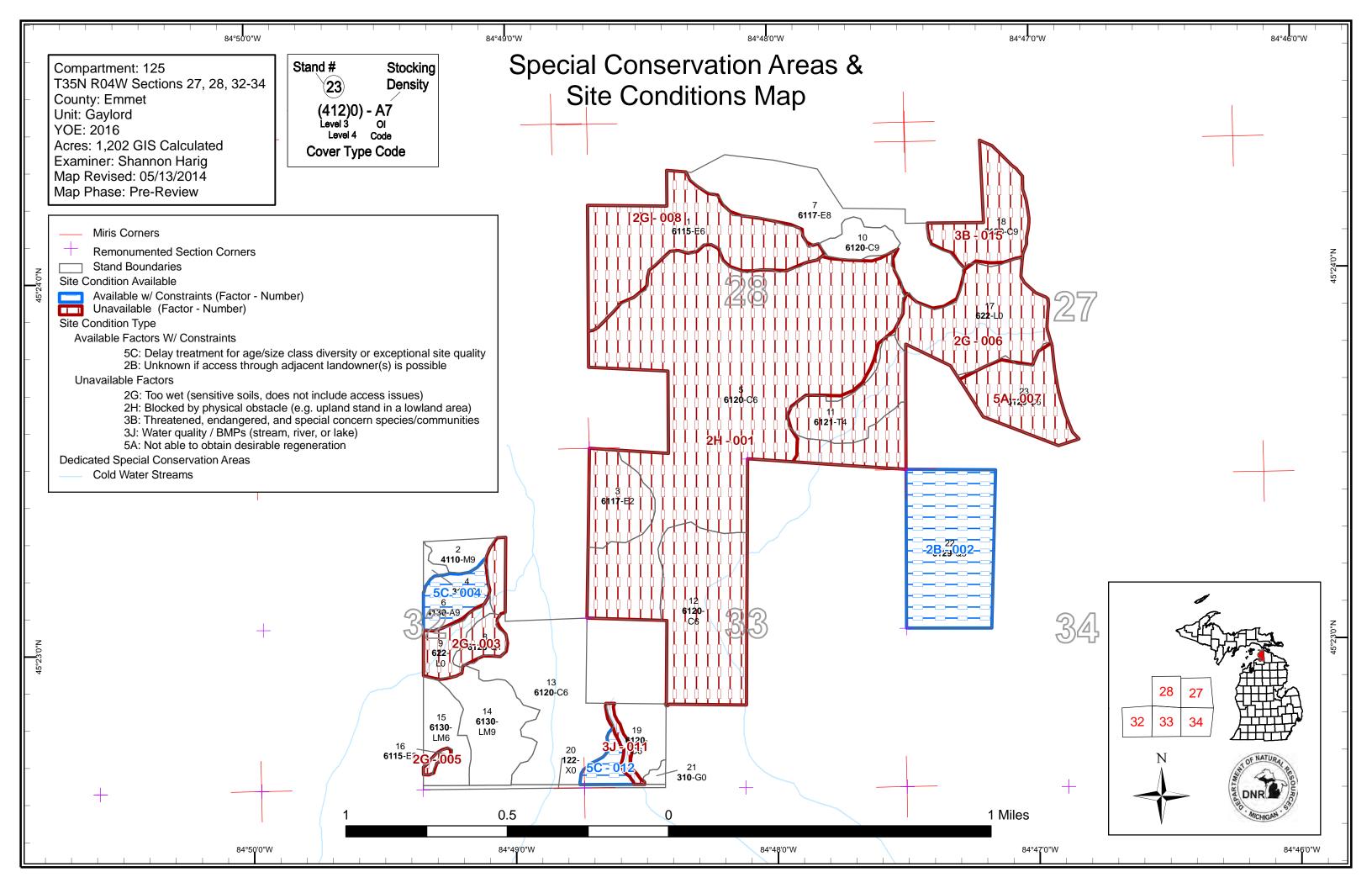
Additional Compartment Information:

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

Gaylord Mgt. Unit Shannon Harig : Examiner

Compartment 125 Year of Entry 2016



	Age Class															
	/	6.0	6 ⁷ .0	2012	22. 23. 29.	10 ⁻¹⁰	IS' IS	00000	10,00	\$0 ¹⁹⁸	69. 69.	601.001	170,779	50° 50°	A A A	0 ⁰
Aspen	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19	
Cedar	0	0	0	0	0	0	0	0	0	91	90	465	30	0	676	
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Lowland Conifers	0	10	0	0	0	0	0	0	0	0	0	0	85	0	95	
Lowland Deciduous	0	31	2	0	94	0	0	0	81	0	0	0	0	0	208	
Lowland Mixed Forest	0	0	0	0	0	0	65	0	0	0	0	0	0	0	65	
Lowland Shrub	83	0	0	0	0	0	0	0	0	0	0	0	0	0	83	
Northern Hardwood	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10	
Tamarack	0	0	0	0	0	0	0	0	36	0	0	0	0	0	36	1
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Total	93	41	2	0	94	0	84	10	117	91	90	465	115	0	1202	1



P. MICHIGAN .	Gaylord Mgt. Unit									-	125
	Year of Entry 2016									Total Compartment Acres:	1,202
			ŀ	Acres by 1	reatm	ent Ty	ре				
	Commercial Harvest - 163	Tree Planting - 0		Other -	- 0						
	Habitat Cut - 0	Opening Maintena	nce - 0								
				Cover Ty	pe by l	larves	st Meth	nod			
				Selection of the second	Concert Concert	do non	Chining Street	Start Receipt	Solo Solo		
	Lowland Coniferous Forest 17 0 0 0 0 17										
	Lowland Deciduous F	Forest	81	0 0	0	0	0	81			
	Lowland Mixed Fores	t	65	0 0	0	0	0	65			
		Total	163	0 0	0	0	0	163			

Report 3 -- Treatments Prescribed

S t		Gayl	lord Mgt. Unit	Repo			ents Prescri ting Factor	ibed	Compartment: 125 Year of Entry 2016	AND REAL PROPERTY OF NATURAL PROPERTY OF NATUR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	52125007-C	C 81.0	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	88	1-50	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
Presc Specs		cut with reserv	ves. Leave retention	in pockets.						
<u>Other</u> Comn	 ments:									
<u>Next</u> Steps		im to well stoo	cked aspen, balsam	fir and cedar i	s accep	otable. Reg	en survey.			
Propos Start D		2015								
14	52125014_C	C 41.2	6130 - Fir, Aspen, Maple	High Density Log	64	81-110	Harvest	Clearcut with Reserves	6130 - Fir, Aspen, Maple	Cmpt. Review Proposal
Presc Specs		cut with reserv	ves. Leave retention	in pockets inc	luding I	nemlock wł	nere possible.			
<u>Other</u> Comn	nents: to the	east farther.	It was not observed of	on the ground	this wir	nter during	inventory operati	ions in the Michiga	gh this stand. The base n River Fisheries locati oundaries ammended.	
<u>Next</u> Steps		im to well stoo	cked aspen, fir, red n	naple, cedar a	nd spru	ice is acce	ptable. Regenera	ation survey.		
Propos Start D		2015								
15	52125015_C	C 23.5	6130 - Fir, Aspen, Maple	High Density Pole	64	141-170	Harvest	Clearcut with Reserves	6130 - Fir, Aspen, Maple	Cmpt. Review Proposal
Spece	<u>S:</u>	cut with reser	ves. Leave retention	in pockets inc	luding I	nemlock wł	nere possible.			
Other Comn	nents:									
<u>Next</u> Steps		im to well stoo	cked aspen, fir, red n	naple, cedar a	nd spru	ice is acce	ptable. Regenera	ation survey.		
Propos Start D		2015								
19	52125019-C	C 17.4	6120 - Lowland Cedar	High Density Pole	150	141-170	Harvest	Clearcut with Reserves	6120 - Lowland Cedar	Cmpt. Review Proposal
Presc Specs		cut with reser	ves. Leave retention	in pockets. Do	o not ha	arvest withir	n 100' of the stre	am along the west	side of the treatment.	
<u>Other</u> Comn	nents:									
<u>Next</u> Steps		im to well stoo	cked cedar, spruce, I	oalsam fir and	tamara	ack is accep	otable regen. Re	generation survey.		
Propos Start D		2015								
Ac	Total Treatn creage Propo		.0							

S t		Gaylo	ord Mgt. Unit	Report 4		eatment imiting	ts Prescribed Factor	with	Compartment: 125 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!							
Presci Specs Other Comm										
<u>Next</u> Steps:										
Propo: Start [
	g Factor									

Report 5 – Site Conditions

Gaylord Mgt. Unit

Compartment 125 Year of Entry 2016

Shannon Harig : Examiner

Dominant Site Conditions

	No	5C	5A	3J	3B	2H	2G	2B
Aspen	0	18					0	
Cedar	114	9	39	4	39	436	35	
Lowland Conifers	0						10	85
Lowland Deciduous	80					32	96	
Lowland Mixed Forest	64							
Northern Hardwood	10							
Tamarack						0	36	
Total Forested Acres	269	27	39	4	39	467	177	85
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.

	ominant Site nd Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
01 I	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	468	4A: No merchantable products (see product standards)	5A: Not able to obtain desirable regeneration	2E: Road needed	
Mos	nments: st of the cedar in ess most of this a	these stands are 5 - 7 inch D area.	9BH, 1 sti	ck trees, some beginning	to show some top die back	. Considerable road work	would be needed to
02	Available	2B: Unknown if access through adjacent landowner(s) is possible	85	2E: Road needed			
Con	nments:						
03 I	Not Available	2G: Too wet (sensitive soils, does not include access issues)	32				
Con	nments:						

		aylord Mgt. Unit Harig : Examiner		Report 5 – Site Co	nditions	Compartment 125 Year of Entry 2016		
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19					
С	comments:							
005	Not Available	2G: Too wet (sensitive soils, does not include access issues)	2					
С	comments:							
006	Not Available	2G: Too wet (sensitive soils, does not include access issues)	131					
С	comments:							
007	Not Available	5A: Not able to obtain desirable regeneration	39	4A: No merchantable products (see product standards)				
C	comments:							
008	Not Available	2G: Too wet (sensitive soils, does not include access issues)	94					
С	comments:							
011	Not Available	3J: Water quality / BMPs (stream, river, or lake)	4					
C	comments:							

		aylord Mgt. Unit Harig : Examiner		Report 5 – Site Conditions	Compartment 125 Year of Entry 2016
012	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9		
C	omments:				
015	Not Available	3B: Threatened, endangered, and special concern species/communities	39		
C	omments:				



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 – 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	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 upor 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 docu be identified by Natural heritage data from the State Historic P this compartment will be implemented in such a manner as to the sensitive nature of this information, no further detail about	n terrestrial areas and Great Lakes ements and burial sites, as well as French s and homesteads. Beneath the waters of umenting the maritime trade. Such sites may reservation Office. Proposed treatments in maintain the integrity of these sites. Due to
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen con stocked trout populations and those of other coldwater fish spe year to year. Coldwater streams in Michigan typically provide to 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

S t	Gaylord Mgt. Unit			Report 8	– Forested	Stands Compartment: 125 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6115 - Lowland Ash	High Density Pole	94.4	41	1-50	EAB present in the stand in the few larger ash.
2	4110 - Sugar Maple Association	High Density Log	10.5	70	51-80	Poor quality stems.
3	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	31.2	15		Healthy regen. It appears there was a significant wind event approximately 15 to 20 years ago that knocked over all of the trees in this stand resulting in the current regeneration.
5	6120 - Lowland Cedar	High Density Pole	372.8	118	51-80	Starting to see dieback in the tops of some of the cedar.
6	4130 - Aspen	High Density Log	18.8	62	111-140	Looks healthy.
7	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	81.0	88	1-50	Aspen is losing vigor, it is likely that most of it will fall out of the stand within the next decade. EAB present in the a lot of the ash.
8	6123 - Lowland Fir	Low Density Sapling	10.0	15		Dead pole size cedar, spruce and fir. Light/medium stocking of balsm fir. There may be spruce and cedar regen under the snow. Considerable deadfall.
10	6120 - Lowland Cedar	High Density Log	13.1	116	141-170	Nice looking stand of cedar.
11	6121 - Tamarack	Low Density Pole	35.7	88	1-50	A lot of cedar mortality, borderline non-forested.
12	6120 - Lowland Cedar	High Density Pole	89.6	107	111-140	Scattered large white pine. Stand looks fairly healthy.
13	6120 - Lowland Cedar	High Density Pole	90.6	98	171-200	Cedar looks healthy.
14	6130 - Fir, Aspen, Maple	High Density Log	41.2	64	81-110	Aspen is starting to show signs of mortality. Some pockets of hemlock in south part of the stand.
15	6130 - Fir, Aspen, Maple	High Density Pole	23.5	64	141-170	Some aspen mortality. Some hemlock present.
16	6115 - Lowland Ash	High Density Sapling	1.9	25		
18	6120 - Lowland Cedar	High Density Log	39.8	116	111-140	EAB present in ash. Aspen is losing vigor.
19	6120 - Lowland Cedar	High Density Pole	30.0	150	141-170	Starting to see some mortality in the cedar.
22	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	85.0	136	1-50	

S t	Gaylord Mgt. Unit			Report 8	– Forested	Stands Compartment: 125 Year of Entry: 2016	R SOURCES
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	E. MICHIGAN .
23	6120 - Lowland Cedar	High Density Pole	39.8	118	81-110	Tops are dying back in most of the trees in this stand. Already lot of mortality. A lot of beaver activity on Mud Creek,	а

Gaylord Mgt. Unit

Report 9 – Nonforested Stands

Compartment: 125 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	310 - Herbaceous Openland	2.9	Unspecified	Unspecified	A lot of sumac and some cherry comimg in.
9	622 - Lowland Shrub	14.0	Unspecified	Unspecified	Beaver activity. A lot of dead cedar.
17	622 - Lowland Shrub	69.0	Unspecified	Unspecified	Tag alder and cattail. Most of the overstory is dead. There are a few balsam fir and cedar hanging on but not healthy.
20	122 - Road/Parking Lot	5.4	Unspecified	Unspecified	
21	310 - Herbaceous Openland	2.1	Unspecified	Unspecified	