

Revision Date: Feb 2010, Sept 2010

Stand Examiner: Steven Nyhoff

Legal Description: T15N, R1W, Sections 2, 3, 10 and 11

Identified Planning Goals ('Management Area' or 'RMU', if applicable): None

Management Goals: In the past 30 years, the compartment has been heavily managed for aspen and other early successional ecosystems. Currently the stands are heavy to oak and aspen on the dry ground and red maple and ash in the wetter areas. It was noticed that there were areas of significant wind throw of the mature trees.

Continue to manage the compartment for the current cover types.

Soil and Topography: The terrain in the compartment is flat with minimal topographical relief, except along Black Creek. This creek has a flood plain bordered by steep banks. It also joins the Tittabawassee River just to the east of the compartment.

The soils in the compartment are Pipestone sand, Wixom sand, and Kingsville fine sand on the level areas which are broken up with low ridges of Covert sand, and the wet depressions of Kinross mucky sand and Adrian muck.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The state ownership is mostly contiguous within the compartment boundary. This ownership is part of a larger block of state land that goes from US-10 to the north county line of Midland. The land is used for hunting; mushroom and berry picking; hiking and dispersed camping. It is also popular with mountain bikers. This group has built a large trail system within this compartment and adjacent compartments. The trail systems were built without permission of the DNR. They have been improving the trail with wooded structures to cross environmentally sensitive soil and along creek corridors without proper measures taken to avoid erosion and sedimentation into the creeks.

Along the east side of the compartment is a subdivision.

Unique, Natural Features: There are records of wood turtles in the compartment and to the NW and SW of the area. There are also records of Three-awned grass to the south.

Archeological, Historical, and Cultural Features: No know occurrences. No new ones were located during the inventory process.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: The compartment has Black Creek flowing through it. This creek has a sand bottom, warm water drainages. However, there are concerns about sediment load flowing into the Tittibawasse Rivers.

The forest treatments planned along Black creek are confined to the bluff above the creeks. This boundary will follow BMP consideration to minimize erosion or sedimentation into the creek from logging

activity. In addition, the treatments that are scheduled near these creeks are not clearcuts but some form of partial removals.

Wildlife Habitat Considerations: This compartment is dominated by areas of lowland deciduous forest with open water inclusions; some are man-made borrow pits while others are natural. Blueberry is common and found throughout the area and provides food source. Several beaver ponds are also found. Waterfowl are frequently seen using these ponds. This compartment is used extensively by deer hunters, although turkey and grouse hunting is also popular. The aspen component should be maintained and increased when possible for wildlife species. The area should continue to benefit from the species diversity within stands. Oak species should be encouraged and not be entirely removed from any one stand.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of Lacustrine (lake) sand and gravel. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Pennsylvanian Saginaw Formation. The Saginaw Formation is used for clay/shale in other areas of the State. This area is predominantly sand, and gravel potential in the compartment is considered limited. Four dry holes have been drilled in the compartment, and several small fields are in the area. The closest is Sanford Field discovered in 1951. It has produced 228,272 BO from the Dundee. This area is leased for oil and gas and potash development.

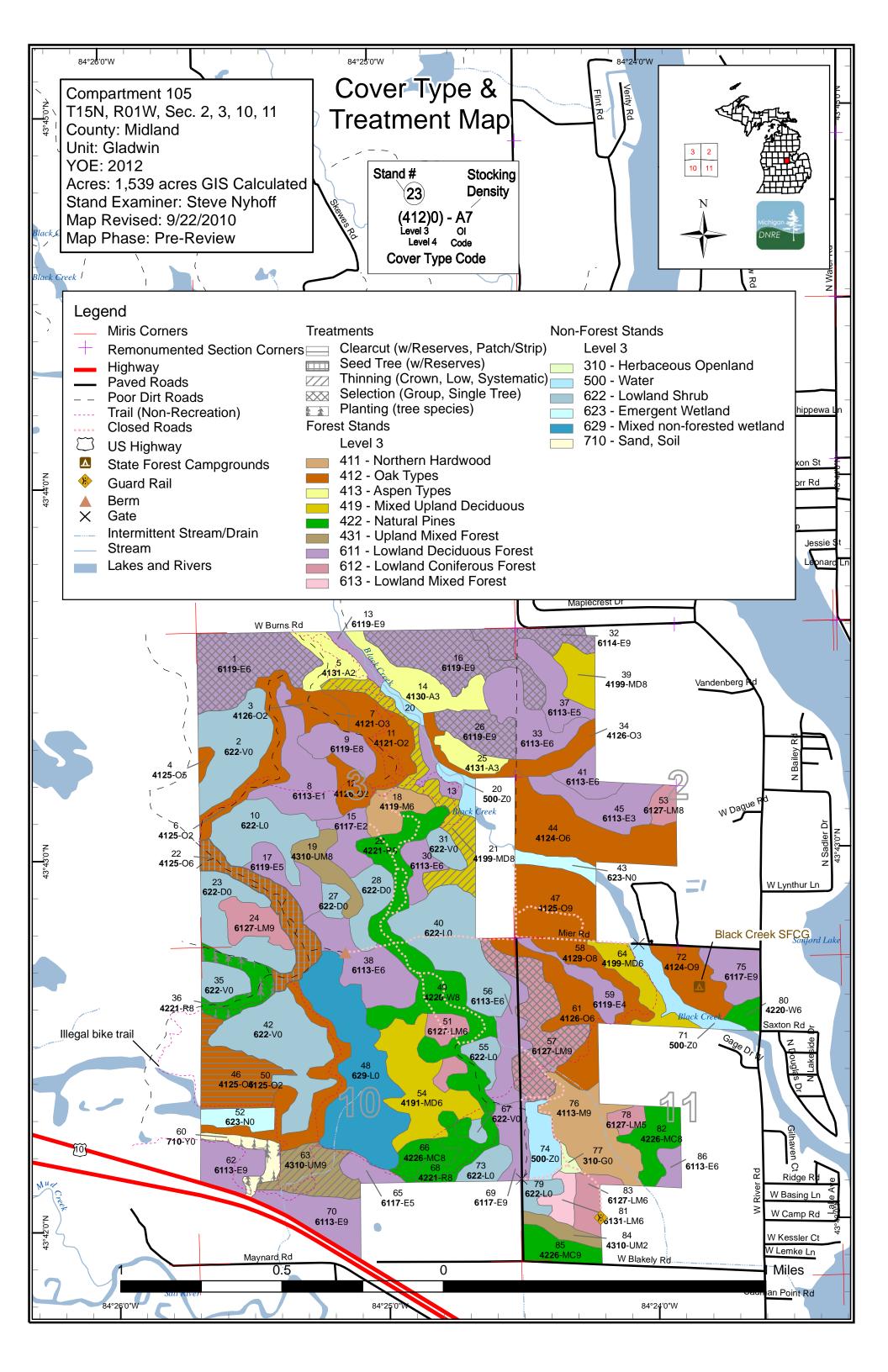
Vehicle Access: The access is off Burns Road, Meir Road, and Blakley Road. There is a main dirt road giving access to the western portion of the compartment. In addition, many closed roads traverse the compartment.

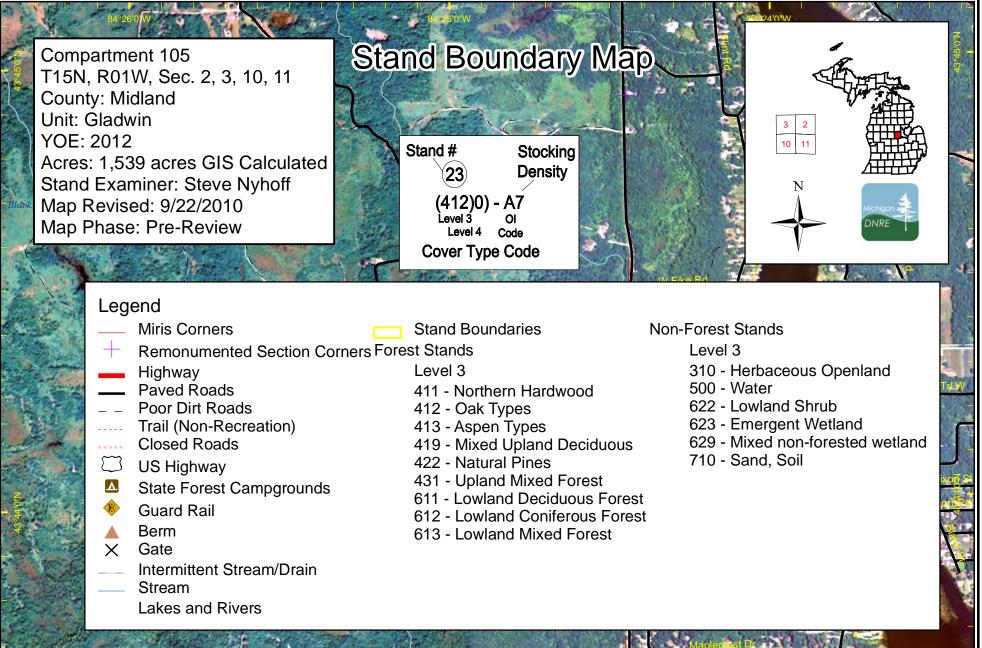
Survey Needs: Text

Recreational Facilities and Opportunities: Within the compartment boundary is the Black Creek State Forest Campground.

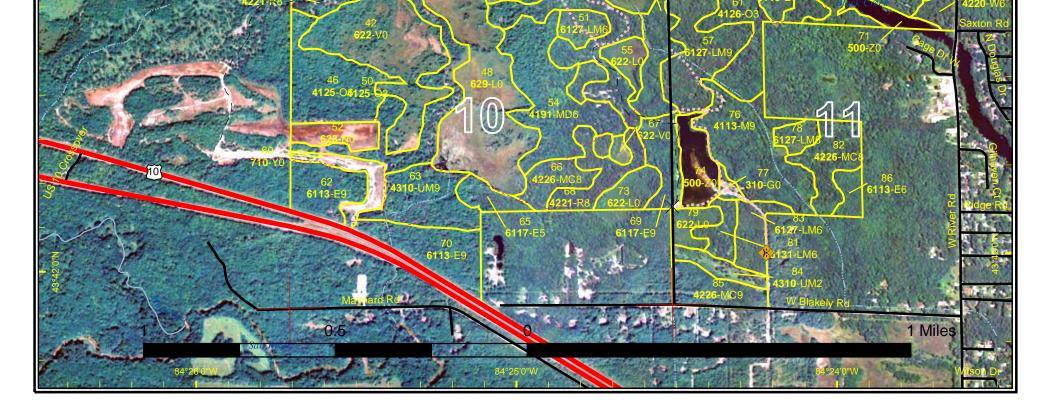
Fire Protection: Text

Additional Compartment Information: There has been a growing problem in the compartment with illegal mountain bike use. This group has been establishing and improving bike trails without the consent of the DNR. The trail improvements include making of bridges and boardwalks with treated lumber to cross wet areas. They continue to expand the trail system not only in compartment 105 but also in compartments 100, 104, 99, 98, and 97.









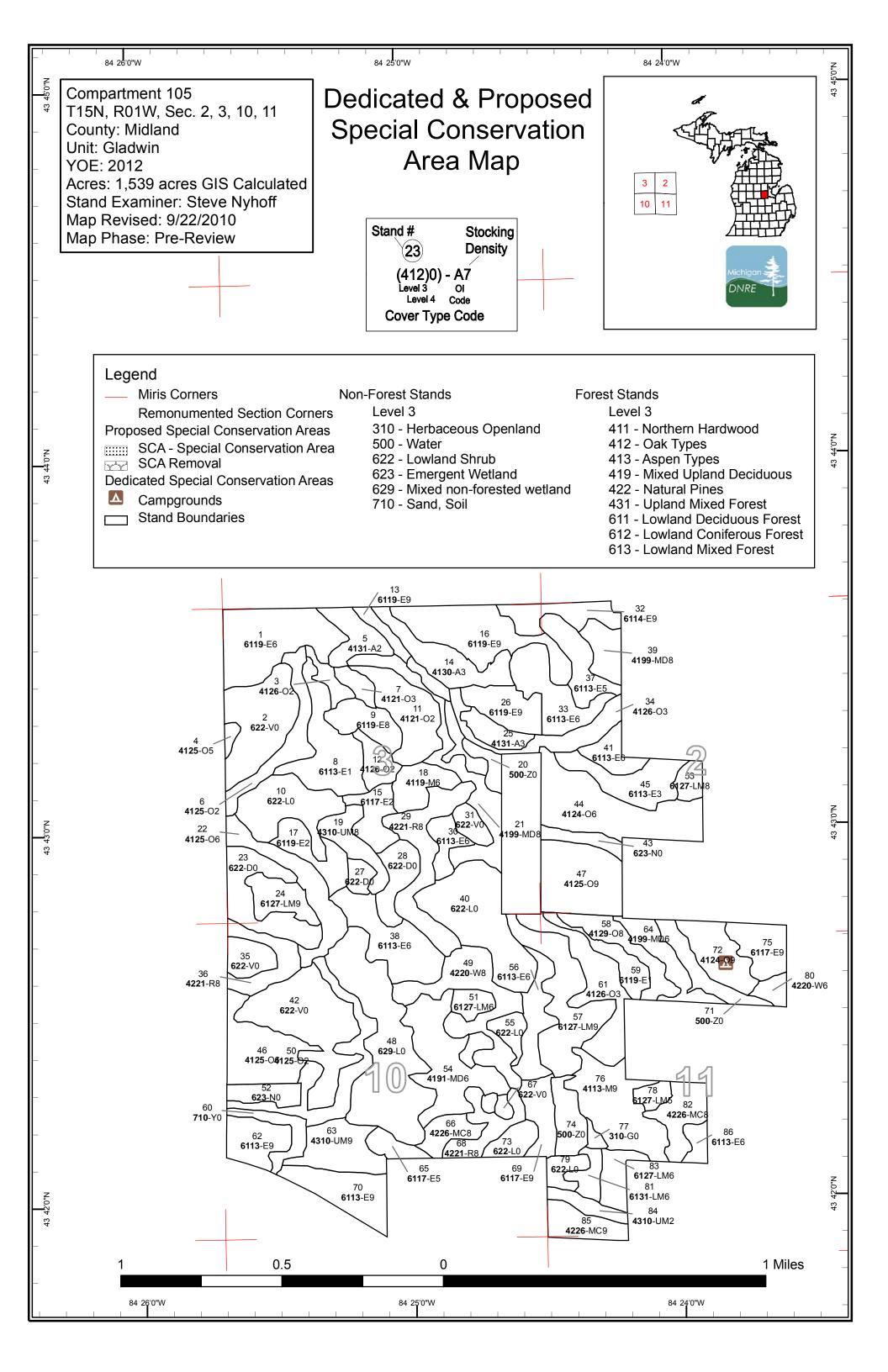


Table 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit

Data updated before 10:00 AM

Compartment 105 Year of Entry 2012



							Age	Class									
	Nor	Des see	6.z	⁷ 0,79	65-1-0-		10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	85.30	60 ^{.6} 0	12	69.00	66.20		°70',	200× 1300	AND	100
Aspen	0	0	22	22	0	0	0	0	0	0	0	0	0	0	0	45	
Bog	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Lowland Conifers	0	0	0	0	0	21	0	5	13	0	6	0	0	0	38	83	
Lowland Deciduous	0	43	0	0	9	0	62	0	25	7	0	0	0	0	264	411	
Lowland Mixed Forest	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7	
Lowland Shrub	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161	
Marsh	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	38	0	0	0	0	53	91	
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	11	16	0	0	0	13	41	
Northern Hardwood	0	0	0	13	0	0	0	0	0	0	0	0	0	0	36	49	
Oak	0	91	17	0	0	0	0	0	0	28	16	0	0	0	155	307	
Red Pine	0	0	0	0	0	0	0	0	0	44	14	0	0	0	0	58	
Sand, Soil	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
Treed Bog	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	
Upland Mixed Forest	0	7	0	0	0	0	0	0	0	13	0	0	0	0	22	42	
Water	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	
White Pine	0	0	0	35	0	0	0	0	0	0	0	0	0	0	5	40	
Total	368	141	39	71	9	27	62	5	39	142	52	0	0	0	586	1541	

Table 2 – Proposed Treatment Summaries

T	Gladwin Mgt. Ur Year of Entry 2012	nit		I	Data u	pdateo	d befor	e 10:0	0 AM			Compartment Total Compartment Acres:	
					Acre	s by T	reatm	ent Ty	ре				
	Commercial Harvest	- 252 Site	Prep - 0		Г	ree Pl	anting	- 23		Pres	cribed Burn - 0	Other - 0	
	Habitat Cut - 0	Oper	ning Maintena	nce - (ד כ	ree S	eeding	- 0		Pesti	cide - 0		
					Cov	ver Ty	pe by H	larves	st Meth	od			
	_					in the second	00 1,000 35	Here A	in or		Police State		
	L	owland Conifer	S	0	38	0	0	0	0	38			
	L	owland Decidu	ous	0	112	0	0	0	0	112			
	Ν	lixed Upland De	eciduous	0	0	0	0	27	0	27			
	C	Dak		29	0	23	0	0	0	52			
	U	Ipland Mixed Fo	orest	0	0	0	0	22	0	22			
			Total	29	150	23	0	49	0	252			

S t		Data		ladwin Mgt. Unit ted before 10:00 A			atments Pro .imiting Fac		Compartment: 105 Year of Entry 2012	
a n d		tment ame	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
32	73105	001-Cut	15.5	6114 - Lowland Oak	High Density Log	86	Harvest	Single Tree Selection	Lowland Oak	Cmpt. Review Proposal
Presc Specs		Concent	rated th		the larger diameter	trees. A	lso the harvest	mark one 80 foot diamete ting will have to be done ir es.		
<u>Other</u> Comm	-	The stan	d is fair	ly dry but has inclusion	of low wet ground.					
<u>Next</u> Steps:	<u>.</u>	The stan	id is exp	ected to regenreate to	a a mixture of oak,	maple a	nd aspen.			
16	73105	016-Cut	37.4	6119 - Mixed Lowland Deciduous Forest	High Density Log	86	Harvest	Single Tree Selection	Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
Presc Specs								mark one 60 to 80 foot dia /e to be done in dry or foz		p per acre.
<u>Other</u> Comm	-	Stand ha	as wet a	reas.						
<u>Next</u> Steps:	<u>:</u>	The stan	id is exp	ected to regenerate to	mixed lowland dec	idous for	est.			
21	73105	021-Cut	27.3	4199 - Other Mixed Upland Deciduous	Medium Density Log	86	Harvest	Crown Thinning	Other Mixed Upland Deciduous	Cmpt. Review Proposal
Presc Specs				d dry or fozen conditio out the main drainages.		imit cut t	o 10". The rete	ention will be the residual.	In addition remove all	the aspen to 2"
<u>Other</u> Comm	-									
<u>Next</u> Steps:	:	The stan	d is exp	pected to remain an Otl	her Mixed Upland fo	orest and	have aspen, n	naple and oak regeneratic	on	
22	73105	022-Cut	23.4	4125 - Black, N. Pin Oak	High Density Pole	17	Harvest	Seed Tree	Black, N. Pin Oak	Cmpt. Review Proposal
Presc Specs		Harvest	as a see	ed tree harvest retainin	g between 10 and 2	20 BA. 1	he retention sh	nould be a mixture of oak	and pine favoring oak.	
<u>Other</u> Comm	-			lead oak removals in th vance regeneration.	ne past allowing are	as to ha	ve heavy regen	eration. The very dense	areas need to be left u	ntreated to
<u>Next</u> Steps:	<u>.</u>	The stan	d is exp	pected to regenerate to	a mixture of oak ar	nd pine, i	f not interplant	with red pine.		
26	73105	026-Cut	16.9	6119 - Mixed Lowland Deciduous Forest	High Density Log	88	Harvest	Single Tree Selection	Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
Presc Specs	•	Harvest harvestir	all aspe ng will h	n and birch and make ave to be done in dry c	the stand down to 7 or fozen conditions.	70 sq fee	t. Concentrated	d the one the removeal of	the larger diameter tree	es. Also the
<u>Other</u> Comm	-	The stan	d has n	nany wet pockets in the	e stand.					
<u>Next</u> Steps:	<u>.</u>	The stan	id is exp	ected to regenerate to	a mixed lowland de	eciduous	forest.			

S t	Data		ladwin Mgt. Unit Ited before 10:00 AN			eatments Pre Limiting Fact		Compartment: 105 Year of Entry 2012	Michigan
a n d	Treatment Name	Acres	s Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
46	73105046-Cut	28.6	4125 - Black, N. Pin I Oak	High Density Pole	63	Harvest	Clearcut with Reserves	Black, N. Pin Oak	Cmpt. Review Proposal
Preso Spec		id is to I	be harvested to 4" DBH.	In addition 1 to 2	trees pe	er area needs to	be marked to retain for re	etenetionl	
<u>Othe</u> <u>Com</u>	<u>r</u> There ar <u>ments:</u>	e large	inclusion of lowland that	will need to be ma	arked ou	ut. The estaima	te of the low wet area is a	around 2 to 3 acres.	
<u>Next</u> Steps		ıd is exp	pected to regenerate to a	a mixture of oak, m	naple an	d aspen.			
57	73105057-Cut	38.2	6127 - Lowland Pine	High Density Log	78	Harvest	Single Tree Selection	Lowland Pine	Cmpt. Review Proposal
Preso Spec		the star	nd down to 80 sq ft. In m	narking do not eler	ninate a	iny one species.	Harvest the stand in dry	ro frozen condiition.	
<u>Othe</u> Com	r_ Keep the ments: deep rut		al around 80 and not mu	ich lower because	of the p	otential for wind	throw. The trail through	the stand is in sorry sh	ape having
<u>Next</u> Steps		ıd is exp	pected to regenerate to v	vhite pine and oak	, and m	aple.			
1	73105057- Cut1	40.7	6119 - Mixed I Lowland Deciduous Forest	High Density Pole	86	Harvest	Single Tree Selection	Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
Preso Spec							nark one 60 to 80 foot dia ng will have to be done in		
<u>Othe</u> <u>Com</u>	<u>r</u> When m <u>ments:</u>	arking ı	retain some of the large of	canopy oaks.					
<u>Next</u> Steps		ıd is exp	pected to regenerate to a	a mixed lowland fo	rest				
63	73105063-Cut	22.0	4310 - Pine, Oak Mix	High Density Log	86	Harvest	Crown Thinning	Pine, Oak	Cmpt. Review Proposal
<u>Prese</u> Spec		the star	nd as an overstory remov	val cut all trees ab	ove 10"	DBH.			
<u>Othe</u> Com	<u>r</u> ments:								
<u>Next</u> Steps		ıd is exp	pected to regenerate to a	a mixture of oak, p	ine, and	maple.			
36	73105036- Plant	14.1	42210 - Natural Red Pine	Medium Density Log	91	Tree Planting	Hand Plant	Natural Red Pine	Cmpt. Review Proposal
Preso Spec		it red pi	ne in sparse areas.						
<u>Othe</u> <u>Com</u> i	rStand wa ments:	as harv	ested in 2007. The resid	lual is 60 BA and i	n patch	es. Some wind t	hrow is occuring.		
<u>Next</u> Steps	<u>s:</u>								
60	NF_73105060- Plant	8.7	Non-Forested		0	Tree Planting	Hand Plant	Planted Jack Pine	Cmpt. Review Proposal
Preso Spec		ant the a	area of bear sand with ja	ck pine.					
<u>Othe</u> Com	<u>r</u> ments:								
<u>Next</u> Steps									

S t	Dat		win Mgt. Unit before 10:00 AM			atments Pres .imiting Facto	Compartment: 105 Year of Entry 2012		
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status

Total Treatment Acreage Proposed: 272.7

S t	Data	Gladwin Mgt. Unit Data updated before 10:00 AM				ents Prescrib ng Factor	ed with	Compartment: 105 Year of Entry 2012	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Presci Specs									
<u>Other</u> <u>Comm</u>	ient:								
<u>Next</u> Steps:									
	ig Factor and No nent Reason	<u>)</u>							
	Total Treatmer reage Propose		0						

Data	a updated	before 10:00 AM	Pi		YOE Trea I with No Lim	Year of Entry: 201	2 Michigan	
Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status

Prescription Specs:

<u>Other</u>

Comments:

<u>Next</u> <u>Steps:</u>

Total Treatment Acreage Proposed:

0

S t	Gladwin	Mgt. Unit		5 – For Data update	ested Sta	eenpurtmenti ree
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6119 - Mixed Lowland Deciduous Forest	High Density Pole	40.7	Uneven Age	81-110	The stand is declining with many of the swamp white oak havin dead tops especially in the low wet ground. There are some wind throws but it is in the wettest parts of the stand. The terra is hummocky and very wet there are areas but overall much of the stand appears to dry out late summer. The stand has a component of upland mixed in. These areas are in small patches but they do not make up a minority of the total acres.
3	4126 - White, Black, N. Pin Oak	Medium Density	5.7	5		The southern 3/4 of the stand was burned in 2004 then salvaged in 2005. The regeneration is variable going from poorly stocked to fully stocked. There are inclusions of low we ground in the stand.
4	4125 - Black, N. Pin Oak	Medium Density Pole	2.1	Uneven Age	1-50	The stand is on a knob and goes down to just a little higher tha the leatherleaf bog to the east. There is an open area in the stand that could be a hunting camp or just an area used for parking. The area was also burned in 2004.
5	4131 - Aspen, Oak	Medium Density	13.5	18		The stand is a mixture of oak and aspen with some red maple. The north end is more aspen being an A3O2 bur overall oak is the majority. There are also some sawlog trees that were left after the stand had a fire salvage done in it. The fire burned in 2004.
6	4125 - Black, N. Pin Oak	Medium Density	18.4	6		This stand is on a ridge. Most of it burned in 2004. Overall the stand has regenerated as a medium stocked oak stand but there are pockets of well and poorly stocked oak present. Ther are also some oak > 4" that survived the burn.
7	4121 - Oak, Aspen	High Density Sapling	5.5	6		The stand was burned in 2004. It has regenerated well to a mi of oak and aspen with the oak being the majority.
8	6113 - Lowland Maple	Low Density Sapling	30.3	6		This stand is a mixture of upland and lowland. The majority is lowland and has regenerated to maple mixed with quaking aspen, red and black oak. The stand was burned in 2004.
9	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	14.2	Uneven Age	51-80	The stand was partly burned in 2004. It is variable in density going from fully stocked to poorly stocked. There are inclusion of marsh in the stand.
11	4121 - Oak, Aspen	Medium Density	26.2	6		The stand was harvested in 2003 then burned in 2004. The east side of the stand was not cut but was later salvaged in 2005 after the wildfire. It is now a sparse oak log stand. The regeneration is good on the upland ridges but poor in the lowe areas. Overall the stand has regenerated as an A3O2.
12	4126 - White, Black, N. Pin Oak	Medium Density	8.9	5		The stand was burned in 2004 and salvaged in 2005. The sout end is low and wet and has a lot of blow down. Regeneration i variable going from medium to poorly stocked.
13	6119 - Mixed Lowland Deciduous Forest	High Density Log	11.2	Uneven Age		New stand added. The stand is on the flood plain of the Black Creek.

S t	Gladwin	Gladwin Mgt. Unit			ested Sta d before 1	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	4130 - Aspen	High Density Sapling	22.3	25		The stand has several drainages running through bisecting the stand. There is a closed trail that runs along the southern portion of the stand. The quaking aspen is concentrated along the drainages and bigtooth aspen is in the upland areas.
15	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	13.0	5		The stand burned in 2005. It has regenerated well but a lot of the poles that were standing are now down. The terrain is hummocky and is a mixture of upland and lowland with the lowland being the majority.
16	6119 - Mixed Lowland Deciduous Forest	High Density Log	37.4	Uneven Age	81-110	The stand is a mixture of upland and lowland with the lowland being just a little more than the upland. The matrix of upland and lowland is too mixed to separate. There is some blow down in the lowest and wettest areas but it is not sever.
17	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	14.6	75		The stand is variable going from seedling to poles. The ground cover is very brushy with lowland shrubs. The terrain is hummocky.
18	4119 - Mixed Northern Hardwoods	High Density Pole	13.1	28		Stand is a thick layer of red maple sapling and some poles under a scatted super canopy of oak and white pine.
19	4310 - Pine, Oak Mix	Medium Density Log	13.4	86	81-110	The stand is on a ridge that goes between two leatherleaf bogs. The access to the stands is difficult. There is some advance oak and maple regeneration present in the stand.
21	4199 - Other Mixed Upland Deciduous	Medium Density Log	27.3	86	81-110	The stand is one level above the flood plain of the Black Creek. There are some wet pockets and at the north end there is an aspen pocket on a ridge boarder along the south by drainage.
22	4125 - Black, N. Pin Oak	High Density Pole	23.4	Uneven Age	1-50	The stand has had the dead oak harvested in the past. It now has a good layer of advance oak regeneration. The regeneration is patchy being thickest in the more open areas of the stand.
24	6127 - Lowland Pine	High Density Log	13.3	72	111-140	Stand is very hummocky and wet. The density of the trees is variable and goes from poorly stock to fully stocked. The size is variable and goes from seedling to logs.
25	4131 - Aspen, Oak	High Density Sapling	9.0	13		This stand is heavy to oak in the west end. The aspen has some hypoxylon canker but it is not heavy.
26	6119 - Mixed Lowland Deciduous Forest	High Density Log	16.9	Uneven Age	81-110	The stand is a mixture of upland and lowland with the lowland being just a little more than the upland. The matrix of upland and lowland is too mixed to separate. There is some blow down in the lowest and wettest areas but it is not sever.
29	42210 - Natural Red Pine	Medium Density Log	29.6	84	51-80	The stand is a mix of thick pocket of red pine saw and white pine sapling and poles with area that are open. The regeneration is a mixture of white pine and oak. The stand was harvested in 2007 by removing aspen, maple, oak and marked pine. The regeneration is coming in but it would not be considered established yet.

S t	Gladwin	Mgt. Unit		5 – For Data update	ested Sta	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	6113 - Lowland Maple	High Density Pole	8.7	31		The stand is in a depression. There is a thick overstory of lowland hardwoods with the ground cover of shrubs. There are inclusions of open lowland shrub.
32	6114 - Lowland Oak	High Density Log	15.5	Uneven Age		The stand is a mixture of upland and lowland with the lowland being the majority.
33	6113 - Lowland Maple	High Density Pole	24.3	54		The stand has some blown down but not bad.
34	4126 - White, Black, N. Pin Oak	High Density Sapling	16.9	13		The stand is undulating and droughty
36	42210 - Natural Red Pine	Medium Density Log	14.1	91	51-80	The stand was harvested in 2007. The residual that was left was 61 Sq Ft. Some of the trees have since wind thrown. The regeneration is poor to moderate. The residual density is also variable.
37	6113 - Lowland Maple	Medium Density Pole	16.6	54		New stand added. The stand is very wet with heavy blown down. The stand is structured as a shelterwood harvest in crown closer and the oak is responding.
38	6113 - Lowland Maple	High Density Pole	29.4	Uneven Age	51-80	The stand has a lot of overstory oak that has died and come down. Red maple is replacing it. The terrain is hummocky and a mixture of upland and lowland. The lowland makes up the majority.
39	4199 - Other Mixed Upland Deciduous	Medium Density Log	11.1	86	1-50	The stand is hummocky with heavy blown down. There is a significant portion of the overstory oak as died and fallen over. The stand is in the process of regenerating. The regeneration is a mixture of oak and maple.
41	6113 - Lowland Maple	High Density Pole	9.8	Uneven Age	51-80	The stand is a mixture of upland and lowland with the lowland having the highest percentage. There is good advance red maple regeneration present in the stand. There is some wind throw also present.
44	4124 - Red with White Oak	High Density Pole	47.0	Uneven Age	51-80	The stand had a 4" diameter harvest with marked red and white oak logs to retain. The regeneration in the stand is a mix of residual advance regeneration of maple, oak, and white pine and seed source and stump sprouts from the harvest in 2007. When the stand was harvested a small patch of white pine was painted out it is less than 3 acre in size but had a high density of about 150 sq ft.
45	6113 - Lowland Maple	High Density Sapling	21.5	50		The stand is lowland with swamp hardwood pole overstory and a thick lowland shrub understory.
46	4125 - Black, N. Pin Oak	High Density Pole	28.6	Uneven Age	51-80	The stand is hummocky. The structure of the stand has an over story of oak and an oak/maple understory with some beech. There is an inclusion of low swamp hardwood but the area is less than 5 acres in size.

S t	Gladwin	Mgt. Unit		5 – For Data update	ested Sta d before 1	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4125 - Black, N. Pin Oak	High Density Log	34.2	Uneven Age	81-110	The stand has nice overstory oak and maple. It is some what hummocky with wet pockets.
49	42200 - Natural White Pine	Medium Density Log	35.4	22	1-50	The stand had the oak removed retaining conifer. Regeneration is variable but heavy to white pine. Oak regeneration is heavily browsed.
50	4125 - Black, N. Pin Oak	Medium Density	26.3	3		The stand was 4" spec clearcut in 2007. There are some oak poles but overall it make up < 15% of the crown closure. The trail through the stand has been blocked and not one is using it. The stand is a mixture of regeneration density going from non- stocked to well stocked. The regeneration is mainly from stump sprouts with some seed source.
51	6127 - Lowland Pine	High Density Pole	10.2	48		The stand is a pine stand over a leatherleaf bog.
53	6127 - Lowland Pine	Medium Density Log	5.8	93		The stand is very hummocky with a lot of shrubs including huckleberry, dogwood, tag alder and willow.
54	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	37.6	Uneven Age	51-80	The stand looks like it was an oak stand that the overstory died and now has come down. It is converting to oak/maple/white pine stand.
56	6113 - Lowland Maple	High Density Pole	16.8	Uneven Age	51-80	The stand is mainly pole maple wit oak. There are inclusions of lowland shrubs in the stand.
57	6127 - Lowland Pine	High Density Log	38.2	Uneven Age	111-140	The stand is a mixture of upland and lowland. The majority is lowland. The trail through the stand is in sorry shape with deep ruts.
58	4129 - Mixed Oak	Medium Density Log	15.8	90	1-50	The stand was harvested and is now a two aged stand. There was significant rutting along the edges when the stand was harvested.
59	6119 - Mixed Lowland Deciduous Forest	Low Density Pole	10.8	70		Stand swapped from Non-Forested to Forested. The stand is mainly swamp hardwoods over lowland shrubs. The center portion of the stand is open with paper birch overstory with a crown closer of < 25%. The age is take from the overstory trees along the edges. However, much of the stand is younger.
61	4126 - White, Black, N. Pin Oak	High Density Pole	28.3	87		The stand is a mixture of upland and lowland with the upland being the majority. It looks like a two aged stand that when it was harvested they marked overstory to retain and cut the under story to 4" DBH. So now there are large oak and small poles to saplings.
62	6113 - Lowland Maple	High Density Log	15.9	Uneven Age		The stand is currently set up for a sale Burns 104.

S t	Gladwin	Mgt. Unit		5 – Foi Data update	rested Sta d before 1		Compartment: 105 Year of Entry: 2012	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	Dinke 1
63	4310 - Pine, Oak Mix	High Density Log	22.0	Uneven Age	81-110	stand is heavily dis stand is concentra stand. The area w	and is mostly upland. The west esected by drainages. The white ated on a ridge along the south e vas put up for harvest last YOE b hat the residual density was too l access was tricky.	pine in the dge of the ut was not
64	4199 - Other Mixed Upland Deciduous	High Density Pole	15.0	Uneven Age	81-110		ting and it is a mixture of upland the upland being the majority.	and lowland
65	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	6.7	86			d very wet. The marsh type to th of the stand drains through it.	e north and
66	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	11.5	83	81-110		into two part by a sale last YOE. n the stand is in wetter ground.	. The white
68	42210 - Natural Red Pine	Medium Density Log	14.0	83	81-110	hardwoods and mar the regeneration. V oak. The oak s	vested in 2007. The harvest removed in 2007. The harvest removed is variable what is coming is a mixture of wheedlings currently are less than a blished. The regeneration goes for stocked to fully stocked.	e as well as ite pine and 3' so not
69	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	12.8	Uneven Age	141-170	New stand added.	The stand is hummocky with area and lowland.	as of upland
70	6113 - Lowland Maple	High Density Log	23.2	Uneven Age		making up the majo but was not cut. T some what wet. 0	ture of upland and lowland with the prity. It was set up to be harveste The residual was left too high and Dverall the stand appears to dry conwood in the stand is concentration south east corner.	ed last YOE I the soil is out in late
72	4124 - Red with White Oak	High Density Log	19.4	Uneven Age	111-140	New stand ac	dded. This stand had the Black C Campground in it.	Creek
75	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	15.5	Uneven Age	111-140	This stand	d is hummocky with cinnamon fe	rn.
76	4113 - R.Maple, Conifer	High Density Log	36.2	Uneven Age	81-110		locky and has areas of lowland. Ipland with significant wet pocket	
78	6127 - Lowland Pine	Medium Density Pole	4.9	60			om Non-Forested to Forested. T ed white pine over leather leaf.	he stand is
80	42200 - Natural White Pine	High Density Pole	5.0	Uneven Age	141-170		a of white pine that is mainly pole anopy white pines and red pine.	es with a few
81	6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	6.9	49	51-80		ture of upland and lowland with t e majority. Terrain is hummocky	

S t	Gladwin Mgt. Unit			5 – Forested Stands Data updated before 10:00 AM			Compartment: 105 Year of Entry: 2012	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	
82	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	16.1	93	1-50	super canopy of red pin There is some advar	sted retaining pine. Current with stump sprouts of map ced regeneration of white p prouts ate heavily browsed	ole and oak. ine in the
83	6127 - Lowland Pine	High Density Pole	10.4	49	171-200		of upland and lowland with tes up the majority.	the lowland
84	4310 - Pine, Oak Mix	Medium Density	6.7	5			ed retaining some oak and r rrain is hummocky.	white pine.
85	42260 - Natural Pine, Mixed Deciduous	High Density Log	13.2	Uneven Age	111-140		of upland and lowland with eing the majority.	the upland
86	6113 - Lowland Maple	High Density Pole	5.1	Uneven Age	81-110	Stand swapped	from Non-Forested to Fore	sted.

Gladwin Mgt. Unit

6 – Nonforested Stands

Compartment: 105 Year of Entry: 2012



Data updated before 10:00 AM

Stand	Cover Type	Acres	Gen Cmts:
2	6225 - Bog	35.4	This stand is a large leather leaf bog with a few scattered trees of jack, red and white pine. The crown closure is < 15%
10	6229 - Mixed lowland shrub	28.9	The stand is a mixture of leather leaf and tag alder. There are some scattered trees mainly paper birch, White pine and quaking aspen. These trees have < 15% crown closer.
20	50 - Water	9.2	The stand is made up of two beaver flooding. The north portion look old and may or may not be holding water the southern one is new and the overstory is just starting to die.
23	6224 - Treed Bog	25.9	This is a leather leaf bog with small islands of pine. They're inclusions of a wet grass type in the south end. The trees in the bog are mainly red pine with some jack pine they have > 15% but < 25% crown closure.
27	6224 - Treed Bog	4.8	Stand swapped from Forested to Non-Forested. The stand is white pine and red pine over leather leaf.
28	6224 - Treed Bog	13.4	Stand is a mixture of lowland shrubs and leather leaf with some white pine, oak, and paper birch.
31	6225 - Bog	6.3	The stand has some white pine but < 15% crown closer.
35	6225 - Bog	9.8	This is a leather leaf bog with some red and white pines in it. The trees are scattered and have < 15% crown closure.
40	622 - Lowland Shrub	45.4	The stand is a lowland shrub type that is a mixture of lowland shrubs and open marsh grass. The stand overall is very wet and the shrub are heavy to tag alder and michigan holly.
42	6225 - Bog	47.5	The stand is a lowland type and is a mixture of leather leaf, marsh grass, tag alder, willow, and michigan holly. These exist in a matrix. The majority of the stand is leather leaf.
43	623 - Emergent Wetland	6.7	This stand is part of the back waters of the Tittabawasee River. Currently it is more of a marsh with island of lowland shrubs.
48	629 - Mixed non-forested wetland	65.8	This is an lowland type that is a mixture of marsh, lowland shrub, The ground cover goes from tag alder, michigan holly to holly and willow then to marsh.
52	623 - Emergent Wetland	8.9	This was part of a flooding. Currently it is a marsh type with open water. The water is shallow. The ground cover is marsh type, cattails, and phragmities.
55	622 - Lowland Shrub	6.5	This is a lowland shrub type with a pocket of marsh in the north end. The shrubs are heavy to tag alder and michigan holly.

Gladwin Mgt. Unit

6 – Nonforested Stands

Compartment: 105 Year of Entry: 2012



Data updated before	10:00 AM
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Stand	Cover Type	Acres	Gen Cmts:
60	710 - Sand, Soil	9.2	This area is a sand drag with some grass in the undisturbed edges. When and if the waterfowl flooding is reestablished in Compartment 104 it will close off this area. Then it is likely to heal.
67	6225 - Bog	2.0	This is a small depression of leather leaf.
71	50 - Water	12.9	This is the back waters of the Tittibawasee River.
73	622 - Lowland Shrub	8.2	The stand is mainly a lowland shrub type with scattered white pine. The white pine has > 15% crown closure but lack bog characteristics. The stand should fill in with ash, maple, white pine, and other species.
74	50 - Water	12.6	This stand is the Turtle pond which is an old barrow pit.
77	310 - Herbaceous Openland	2.1	This was a parking area before the road to the turtle pond was closed. There is some spotted knapweed present in the stand.
79	622 - Lowland Shrub	6.6	This stand is a lowland shrub stand of tag alder and michigan holly. There are some pole size white pines in the stand but they are scattered.



7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Data updated before 10:00 AM

Stand	SCA Туре	SCA Name	Acres	Comments



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservatio Area	on Type	Data updated before 10:00 AM Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA Concentrated Recreation Area		Facilities that are designed and maintained for routine or he State Forest campgrounds, motorized and non-motorized t access sites.	