

# FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT 55 ENTRY YEAR: 2014

Compartment Acreage: 1276 County: Gladwin

Revision Dates: Draft 6-20-12. Former Drafts: 5-26-12

# Stand Examiner: Mark Reichel

Legal Description: T18N, R1E, Sec. 3, 9, 10; T19N R1E Sec. 33, 34

**Timber Management and Cover Type Change**: None of the aspen in this compartment was over 39 years of age. Several aspen stands were good candidates for early harvest to regulate aspen in Gladwin Management Unit, but these stands would put on a lot of volume in the next ten years, and there were better choices in other compartments. Thus only one small aspen/mixed deciduous stand will receive a seed tree harvest. 64 acres of mixed upland deciduous forest will receive selection or shelterwood harvests. 20 acres of oak will also receive shelterwood harvests, for a total of 105 acres treated this year of entry. Since the last inventory, aspen cover decreased by about 130 acres because a large stand in the northeast did not regenerate to aspen; it typed out as either oak or non-forested lowland types. For the same reason oak cover increased by about 30 acres and non-forested lowland cover types increased by 80 acres. 150 acres, including at least 50 acres of lowland hardwoods, was reclassified as mixed upland deciduous forest. Non red pine conifer cover increased by about 30 acres due to IFMAP cover types (vs. OI) and the "comeback" of white pine.

Soil and Topography and Habitat Types: This compartment lies just to the East of Smallwood Lake, formed by damming the Tittabawassee River. A low, broad aspen and oak ridge runs North-South through the middle of the entire compartment. A broad swamp hardwood drainage system with multiple channels runs along the entire West side of the compartment West of the ridge, draining South into the Tittabawassee River South of the compartment. The East side of the compartment is the edge of a large non-forested wetland area that drains East into Black Creek then South to the Tittabawassee. The Kotar habitat type for the majority of the central uplands in this compartment is PArVVb/AFO, which is some of the most mesic and relatively nutrient rich soils on state forest lands in Gladwin county. Soils are sandy loams or loamy sands that support red oak, red maple, aspen, white pine and northern hardwood forest. There are only traces of northern hardwood species in this compartment. This area has the potential to produce quality red oak. The western edge of this upland where it grades into the lowland system is PArVVb. The drainage system on the West side is unclassified lowlands, as is the wet areas in the Northeast part of the compartment. Roughly 275 acres in the north central part of the compartment and the eastern edge of section 3 are Kotar PArVCo habitat type, which consists of poorly drained and nutrient poor soils that also support red maple, white pine, oak and aspen, but with lower SI's. These are very good sites for red pine, and are at risk for getting "swamped" if clearcut.

**Ownership Patterns, Development, and Land Use in and Around the Compartment**: This compartment is at the western edge of the large block of state land in eastern Gladwin County, and is surrounded by private land except for 1 <sup>1</sup>/<sub>4</sub> miles along the Northeast edge. The western edge is close to Smallwood Lake and the homes along it; especially the Southwestern edge which borders the Wooden Shoe Village/White Star community. There are four private parcels South of the compartment, with only a few homes and

structures. There are nine private parcels along the north border; the homes on these parcels are along Ridge Rd.

**Unique, Natural Features:** According to the Michigan Natural Features inventory database and GDSE element occurrences layer, there have been no documented occurrences of threatened or endangered species in this compartment, nor were any discovered during inventory fieldwork. There is a bald eagle occurrence about 2/3 of a mile to the Northwest, on Smallwood Lake. There is also potential for eastern massassauga rattlesnake and Blanding's turtle in lowland brush, bog and marsh cover types in this compartment.

Archeological, Historical, and Cultural Features: The HAL database did not indicate any concerns in this compartment.

**Special Management Designations or Considerations**: There are currently no SCA's, ERA's, HCVA's or any other biodiversity stewardship areas or other special designations in this compartment.

**Wildlife Habitat Considerations:** This compartment contains the old Hay Township dump site which is regulated by a Directors Order restricting access during certain periods of time throughout the year. Both upland and lowland systems are present, making it suitable for a number of wildlife species. This area is heavily utilized by out-of-county grouse and woodcock hunters and remains a very popular location for archers and firearm deer hunters. Game species likely to be present in this compartment include black bear, bobcat, raccoon, coyote, wild turkey, ruffed grouse and white-tailed deer. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These species include gray catbird, redeyed vireo, white-breasted nuthatch, tufted titmouse, black-capped chickadees, eastern kingbirds and northern flicker. The compartment is easily accessible to hunters via M-61.

**Fisheries Considerations:** This compartment lies within the Tittabawassee River watershed. In this area, the fishery is warm water. Special concerns are primarily to guard against sedimentation.

**Mineral Considerations:** Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 100 and 200 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. 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. Very little oil and gas exploration has occurred in this area. North Buckeye Field is located just to the west. The field, discovered in 1936, has produced over 21 MBO from the Devonian Dundee Formation. Most of the Compartment is leased for oil and gas exploration and parts of Sections 34 & 35 are nominated for the May 2012 auction.

**Vehicle Access:** The upland running the length of the compartment from South to North is adequately served by one main road originating off M-61, although it has a few nearly impassable holes. The road is gated (WLD) at M-61 and is closed by a director's order except during hunting season, due to continued trash dumping in the old Hay Township landfill. The road turns West at the North edge of the compartment and runs through private land (county easement), but the road is impassable. One other good dirt road runs East from the center of the compartment, and there are a few other short two tracks coming off the main road. Two of these, at the North end, were bermed after the last timber sale.

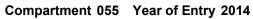
**Survey Needs**: There are no immediate needs for a survey to implement the timber sales proposed for this year of entry. But at least 12 monuments are needed to establish monuments for the entire compartment.

**Recreational Facilities and Opportunities:** The compartment is mainly used for deer and grouse hunting. The roughly 30 acre parcel in section 33 that borders Smallwood Lake has potential as a boat ramp. Parks Division assessed the site since the last inventory and did not pursue development of the site.

# Table 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit

# Mark Reichel : Examiner





Age	Class
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					69. 69.	10.10	S. S.	60 60		60.00 60.00	93 19	001.001	611.01.	20 × 00 × 150		,oie,
Aspen	89	12	112	142	0	0	0	0	10	0	0	0	0	0	364	l
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	l
Bog	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37	l
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25	ĺ
Low-Density Trees	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20	l
Lowland Aspen/Balsam Poplar	0	0	75	0	0	0	0	0	0	0	0	0	0	0	75	ĺ
Lowland Conifers	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	ĺ
Lowland Deciduous	0	10	5	0	0	0	112	97	0	0	0	0	0	0	225	ĺ
Lowland Mixed Forest	0	0	0	0	0	0	0	8	0	0	0	0	0	7	14	ĺ
Lowland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	72	Í
Marsh	52	0	0	0	0	0	0	0	0	0	0	0	0	0	52	Í
Mixed Upland Deciduous	0	0	0	7	0	0	14	6	51	0	0	0	0	8	86	Í
Natural Mixed Pines	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	
Northern Hardwood	0	0	0	0	21	0	10	0	0	0	0	0	0	0	31	
Oak	0	37	30	0	0	0	78	0	21	0	0	0	0	0	167	í
Red Pine	0	0	0	0	0	30	0	0	0	0	0	0	0	0	30	1
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1
Treed Bog	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1
Upland Mixed Forest	0	0	0	0	0	0	13	10	2	0	0	0	0	0	25	1
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1
White Pine	0	0	0	0	0	0	11	0	0	0	0	0	0	4	14	1
Total	329	59	222	149	21	30	243	121	84	0	0	0	0	18	1276	Ì



# Table 2 – Proposed Treatment Summaries

MICHIOAN .	Gladwin Mgt. Unit Year of Entry 2014								Compartment Total Compartment Acres:	
			Acr	es by Tre	atment Ty	/pe				
	Commercial Harvest - 96	Site Prep - 0		Tree Plan	ting - 0		Prescr	ibed Burn - 0	Other - 0	
	Habitat Cut - 0	Opening Mainten	ance - 0	Tree See	ding - 0		Pestici	de - 0		
			Co	ver Type	by Harve	st Meth	od			
			C.C.S.		So oo	Trining Or	Sol Loo	<sup>6</sup>		
	Aspen		0 0	10	0 0	0	10			
	Mixed U	Jpland Deciduous	0 42	0	14 0	0	55			
	Oak		0 0	0	21 0	0	21			
	White P	ine	0 0	0	10 0	0	10			
		Total	0 42	10	45 0	0	96			

S t			Gla	dwin Mgt. Unit	Tab			ents Prescril ing Factor	bed	Compartment: 055 Year of Entry 2014	AND	
a n d	Treatm Nam		Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
5	73055 ShV		5.8	4199 - Other Mixed Upland Deciduous	Medium Density Log	75 9	111-140	Harvest	Shelterwood	4121 - Oak, Aspen	Cmpt. Review Proposal	
Prescr Specs		helterwo 60.	ood to reo	gen oak. Remove all a	spen and m	aple by	spec. Marl	additional O an	nd W with orange p	aint for removal to reac	h residual BA	
<u>Other</u> Comm	<u>ents:</u> N w	E corne	r of stand ees at N	d, along with blue DNR	carsonite "	witness	post" and o	ne witness tree o	on W side of Lakes	s tree on E side of Lak hore. Found: DNR mo north end of stand 10 t	nument and	
<u>Next</u> Steps:												
Propos Start Da	ed_	/01/201	3									
31	730550 ShV		7.7	4191 - Mixed Upland Deciduous with Conifer	High Density Log	76 9		Harvest	Shelterwood	4122 - Oak, Pine	Cmpt. Review Proposal	
Prescr Specs	ir vi a	addition olume fo pout 43. nderstor	n mark X or a resid Mark fo	log sized white pine a ual white pine BA of ro r logability and use reg ve to be cut. There is g	nd oak (und ughly 10. R gen protectic	er 18" di emove i on spec f	am.) to rea roughly 1/5 to protect a	ch a residual BA of oak, leaving t s much pole and	of 60. Remove at he better quality hy l sap sized pine an	nd aspen using contract bout 2/3 of merchantabl /brid oak, for a residual d oak as possible, but so a this. Leave the scatte	e white pine oak BA of some	
<u>Other</u> Comm	<u>ents:</u> S u m	helterwo bland wi ain road aither ha	ood will re th occasi d 100 yar ave to she	elease advanced reger ional hummocks. Not r ds NE of stand, or old	n and create nuch more t loop turnaro ling. North e	new age han 30% ound off end seer	e class as v 6 of canopy main road E ms a little p	vell. Aspen is ge is log sized tree of stand. Othe oorer, sparser si	etting decadent: so es. Only places for erwise there are no	s well as poles, saps a me mortality. Somewh landing are small clear clearings near stand ar y white pine in this area	at mesic ing west of id would	
<u>Next</u> Steps:												
Propos Start Da		/01/201	3									
58	7305505	8-Sel	41.5	4199 - Other Mixed Upland Deciduous	High Density Log	86 g		Harvest	Single Tree Selection	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal	
Prescr Specs	: w sa 7	hite pine alvage a 5 to sou	e and ceo sh. No c	lar. O.k. to make som openings in area that c	e 50 to 100 an be used a	ft regen as landii	holes. Mai ngs. Use tv	k for logability. vo landings, sha	If possible expand red with stands 31	esidual BA of 60. Leave treatment into E types and 68. Improve loop i ding short length of roa	to the west to road in stand	
<u>Other</u> Comm	<u>ents:</u> p a	escripti nd fir se	on. Nortl edlings.	hern 2/3 has much hea	avier white p ow low area	ine and runs ab	balsam fir. out 40% of	Northern 1/5 ge length of stand i	ts wetter and is hu	st 5 ac may be too wet: mmocky with heavy red 10% lowland, including	maple saps	
<u>Next</u> <u>Steps:</u>												
Propose Start Da		/01/201	3									

S t			Glad	dwin Mgt. (	Unit	Tab			ents Prescrik ting Factor	bed	Compartment: 055 Year of Entry 2014	AND NATURAL MURREN
a n d		ment me	Acres	Cover	Туре	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61		5061- N_N	6.8	4125 - Blac Oa		High Density Log	80 J	51-80	Harvest	Shelterwood	4125 - Black, N. Pin Oak	Cmpt. Review Proposal
Prescri Specs:	•					l maple by sp eatment to so		on and ma	rk additional 9 BA	A of poorer quality of	canopy oak to reach res	sidual BA of
<u>Other</u> Comme	<u>ents:</u>	offsite re	d maple). treatmen	The oak in	this stand	l is black/red	hybrid a	ind has fair	rly good stem qua	ality. This northern	of regen is supressed or treatment and western uaking aspen in canop	1/2 of the
<u>Next</u> <u>Steps:</u>												
<u>Propose</u> <u>Start Da</u>		10/01/201	3									
61		5061- N_S	14.3	4125 - Blac Oa	,	High Density Log	80 J	51-80	Harvest	Shelterwood	4125 - Black, N. Pin Oak	Cmpt. Review Proposal
<u>Prescri</u> <u>Specs:</u>		(mark for PROTEC WHERE prescripti from Rx v to SE but	Tremoval) CTION SP MAPLE A ion to exte when runn t there are	. Green ma EC AND BE AND CHERR ent possible hing red line.	rk one red VERY C Y ARE R but may e Use bra	d maple and AREFUL TO EMOVED, N end up exclud cken opening	one chol PROTE OT ON I ling this g in sout	kecherry p CT ADVA REGEN. S area from heast part	er acre as seed s NCED REGEN. <sup>-</sup> outheast corner s treatment. Exclu of stand as landii	ource and part of r TRY TO SELECT L sparser & more of r ide the one mature ng; would have to b	remove 10 BA of large, etention. USE REGEN ARGE OAK THAT CAI nixed deciduous stand; beech and seedlings o build 175 yards of road e new landing at west ed	N BE FELLED apply n SW edge from main road
<u>Other</u> Comme	<u>ents:</u>	red mapl stem qua	e and bla ality. The	ck cherry, ar western 1/2	nd good co of this tre	ohorts of oak atment is on	poles a a very g	nd 3-4" oa jood Kotar	k saplings. The o PArVVb/AFO site	bak in this stand is	en. BA is 69; there is a black/red hybrid and ha alf of this treatment is a y.	as fairly good
<u>Next</u> <u>Steps:</u>												
<u>Propose</u> <u>Start Da</u>		10/01/201	3									
68		5068- าW	10.2	42200 - I White		High Density Log	68 J	111-140	Harvest	Shelterwood	42201 - Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescri</u> <u>Specs:</u>		pine and cutting u	maple. nits as de	Neither prot termined at	ect nor re pre-reviev	quire cutting v. This will e	of white ntail buil	, pine reger ding a sho	<ol> <li>Landing for thi rt section of road</li> </ol>	s stand and at leas North from the loo	oak as possible, and le st South end of stand 46 p in stand 75 to the sou t 1 mile long) if produce	6 should go in uth, and
<u>Other</u> Comme	ents:	MO is to unmerch		current spec	ies, espe	cially the sma	all perce	ntage of ea	arly seral species	, and to utilize the	larger trees before they	are
<u>Next</u> <u>Steps:</u>												
<u>Propose</u> <u>Start Da</u>		10/01/201	3									

S t		Glad	lwin Mgt. Unit	Tabl			ents Prescril ing Factor	bed	Compartment: 055 Year of Entry 2014	DIR MATURA PRIMA
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
93	73055093-SdT	9.5	4139 - Aspen, Mixed Deciduous	High Density Log	85		Harvest	Seed Tree with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
Pres	cription Seed tre	e harvest.	Remove all aspen a	nd red maple	by spec	. Leave al	l other spp. as s	eed source. Also l	Mark one large, good g	uality red maple

<u>Prescription</u> Seed tree harvest. Remove all aspen and red maple by spec. Leave all other spp. as seed source. Also Mark one large, good quality red maple <u>Specs</u>: per acre as seed source. These residual trees will serve as retention. No clearing for landing: clear landing in middle of E edge of stand to stay away from homes to N and S. Will have to cross ditch along Lakeshore Drive.

Other<br/>Comments:MO is same species mix as exists currently. Did not find monument on north boundary of stand at NE corner of NW 1/4 NE 1/4 Sec 9, but found<br/>private monument 200 ft S: "B, B, L & A PS 9433". According to survey, bearing running both N & S of this iron is S 01deg 58' W. Line running<br/>S is 613.35 ft long, ending at a set 1/2" X 18" re-rod that is PS capped. There is a remon monument at the SW corner of sec 4, 1/4 mi west of<br/>where monument in NW corner of stand should be, but line would have to be run through subdivision. I found a remon monument on line along<br/>N end of stand, just E of Lakeshore Dr. Bearing from this mon running E is S 89 deg looks like 13' 15" W. Appears on survey map to continue<br/>along same bearing to west. Good mostly upland with a few vernal ponds. Heavy false cedar ground cover. Tr of RO, O in canopy.

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2013

Total Treatment	
Acreage Proposed:	96.0

S t		Gladwir	n Mgt. Unit	Table 4		atments imiting	s Prescribed Factor	Compartment: 055 Year of Entry 2014	DUR NATURAL PROVIDENCE	
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error							
Presc Specs	ription <u>s:</u>									
<u>Other</u> Comn										
<u>Next</u> Steps	<u>:</u>									
<u>Propos</u> Start D										
	ng Factor and N ment Reason	0								
Ac	Total Treatme creage Propose									

						eatments imiting Facto	or	Year of Entry: 2014	DI NATURAL PRODUCE
Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73010274-Cu	t 26.5	42260 - Natural Pine, Mixed Deciduous	High Density Log	105 9		Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal
Prescription The stand	and is to be	harvested as a 2" spe	ec final harve	st. The	retention s	hould be focused	d along the snowmo	obile trail.	
<u>Other</u> <u>Comments:</u>									
<u>Next</u> After ti <u>Steps:</u>	ne harvest re	eplant the stand to red	d pine, expan	d the un	planted are	ea around the Le	ota Weather Statio	n.	
<u>Proposed</u> <u>Start Date:</u> 10/01/:	2009								
73010290-Cu	t 17.1	42110 - Planted Red Pine	High Density Pole	56		Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
Prescription The sta	and needs to	o be thinned by a sys	tematic thinni	ing indivi	dual tree r	narking taking th	e residual BA dowr	n to 110.	
<u>Other</u> Comments:									
<u>Next</u> <u>Steps:</u>									
Proposed Start Date: 10/01/2	2009								
73010295-Cu	t 28.0	4122 - Oak, Pine	High Density Pole	83		Harvest	Clearcut with Reserves	4129 - Mixed Oak	Cmpt. Review Proposal
		be harvested as a 2" s uld be focused along			ne harvest	should retain all	red and white pine	as well as marked oak	for retention.
<u>Other</u> Comments:									
<u>Next</u> After tl <u>Steps:</u>	ne stand is h	narvested interplant w	vith red pine.						
Proposed Start Date: 10/01/2	2009								
73010296-Cu	t 39.4	42260 - Natural Pine, Mixed Deciduous	High Density Pole	68		Harvest	Clearcut with Reserves	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
		harvested as a 2" spe rated along the snow		st. The	retention s	hould be a mixtu	re of individually m	ark oak and pine. The	retention
<u>Other</u> Comments:									
<u>Next</u> After tl <u>Steps:</u>	ne stand is h	narvested plant to red	pine.						
Proposed Start Date: 10/01/	2009								

Start Date: 10/01/2009

NATUR

# Out of YOE -- Treatments Prescribed with No Limiting Factor

	tment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73010	299-Cut	15.5	4122 - Oak, Pine	High Density Log	105 J		Harvest	Clearcut with Reserves	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Prescription Specs:	The star	d is to be l	harvested to 2" DBH	but do not cu	t any rec	d or white p	pine. Focus any	addition retention to	the area along the si	nowmobile trail.
<u>Other</u> Comments:										
<u>Next</u> Steps:	After har	vest interp	lant red pine this will	lead to a mix	ed oak/p	oine stand.				
Proposed Start Date:	10/01/20	09								
73010	308-Cut	21.7	42211 - Natural Red Pine, Mixed Deciduous	High Density Pole	73		Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal
Prescription Specs:			final harvested to 2" I ld be marked along th						or visual consideration	n. In addition
<u>Other</u> Comments:										
<u>Next</u> Steps:	After har	vest replar	nt the stand to red pir	ne.						
Proposed Start Date:	10/01/20	09								
73010	310-Cut	6.8	42211 - Natural Red Pine, Mixed Deciduous	High Density Pole	73		Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal
Prescription Specs:	Harvest	the stand a	as a 2" spec final har	vest. The rete	ention sh	ould be pla	aced to address	visual concerns.		
<u>Other</u> Comments:										
<u>Next</u> Steps:	After the	harvest pl	ant the stand to red p	oine.						
Proposed Start Date:	10/01/20	09								
73010	312-Cut	34.7	42110 - Planted Red Pine	High Density Log	73 J		Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
Prescription Specs:			harvested as a thinnin dead oak. Focus the					centrated the remov	al on damaged trees	and leave the
<u>Other</u> Comments:										
<u>Next</u> Steps:										
<u>Proposed</u> Start Date:	10/01/20	09								

							eatments imiting Factor		Year of Entry: 2014	DNR DNR
	atment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73010	)314-Cut	9.2	42140 - Planted Mixed Pine	High Density Pole	73		Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal
Prescription Specs:		id should I and for ret		nd to 2" DB	H. The s	stand shou	ld have red pine ar	nd oak marked to	o met retention or leave	the SE corner
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>	After the	stand is h	arvested replant the s	tand to red	pine.					
Proposed Start Date:	10/01/20	09								
73010	)323-Cut	160.2	42220 - Natural Jack Pine	High Density Pole	63		Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal
Prescription Specs:			established KW Block uld be approximatly 33						in strip going from the	southwest to
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>	After the	harvest tr	ench and replant to jac	ck pine.						
Proposed Start Date:	10/01/20	09								
73010	)324-Cut	34.3	42220 - Natural Jack Pine	High Density Pole	59		Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal
Prescription Specs:			established KW Block t to northeast going thr						ne stand should be left i wide.	n strip going
<u>Other</u> Comments:										
<u>Next</u> <u>Steps:</u>	After the	harvest tr	ench and plant jack pi	ne.						
Proposed Start Date:	10/01/20	09								
73010	)325-Cut	86.7	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	59		Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal
Prescription Specs:			established KW Block t to northeast going thr						ne stand should be left i wide.	n strip going
<u>Other</u> Comments:										
<u>Next</u> <u>Steps:</u>	After the	harvest tr	ench and plant jack pi	ne						
Proposed Start Data:	10/01/20	na								

Start Date: 10/01/2009

							eatments imiting Facto		Year of Entry: 2014	AND
	tment ime	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73010	334-Cut	7.3	42121 - Planted Jack Pine, Mixed Deciduous	High Density Pole	72		Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal
Prescription Specs:	The stan	d is to be l	harvested as a 2" Spec	final harve	st.					
<u>Other</u> Comments:										
<u>Next</u> <u>Steps:</u>	After the	harvest re	eplant the stand to jack	pine.						
Proposed Start Date:	10/01/20	06								
73010	336-Cut	32.5	4122 - Oak, Pine	High Density Log	94		Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
Prescription Specs:	Harvest retention		as a 2" spec, except for	r oak which	is to be	cut to 4" D	BH and white pi	ine to be cut to 6" D	BH. In addition mark	some trees for
<u>Other</u> <u>Comments:</u>										
<u>Next</u> Steps:	The stan	d is expec	ted to regenerate to a	mixture of a	spen, oa	ak, maple, a	and jack pine.			
Proposed Start Date:	10/01/20	06								
73010	338-Cut	86.7	42290 - Natural Mixed Pine	High Density Pole	74		Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal
Prescription Specs:			established KW Block. to northeast going three							n strip going
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>	After the	harvest tro	ench and plant jack pin	e for KW.						
Proposed Start Date:	10/01/20	09								
73010	344-Cut	22.8	4125 - Black, N. Pin Oak	High Density Pole	96		Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
Prescription Specs:	Harvest	the stand a	as a 2" spec final harve	st, except t	ne oak v	which is to b	pe cut to 4" DBH	I. In addition, do no	t harvest any white an	d red pine.
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u>	The stan	d is expec	ted to regenerate to a	nixture of o	ak and a	aspen.				
Proposed Start Date:	10/01/20	06								

Year of Entry: 2014

### Out of YOE -- Treatments Prescribed with No Limiting Factor

 Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73010420-Cut	1.5	42220 - Natural Jack Pine	High Density Pole	66		Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Cmpt. Review Proposal - Incomplete

<u>Prescription</u> The stand should be harvested as a 2" spec final harvest. The retention should be kept in a small patch. <u>Specs:</u>

#### <u>Other</u>

Comments:

Next The stand is to be replanted to jack pine after it is harvested. Steps:

Proposed Start Date: 10/01/2012

> Total Treatment Acreage Proposed: 630.9

S t	Gladwin	Mgt. Unit		5 – For	ested Sta	Inds Compartment: 055 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Medium Density	4.7	3		
2	4119 - Mixed Northern Hardwoods	High Density Log	10.3	62	1-50	Dissected by fairly broad, deep drain that would be very difficult to cross. Northern 1/3 accessible from p.i. st 2. Tr of E, BC (canopy); W, O, BC, SB (sub)
3	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	4.7	68		
4	4319 - Mixed Upland Forest	Medium Density Log	10.2	76		Small U type along NW edge. Dissected by wet drain: S end would be difficult to access. N end BA too low to thin white pine: hold to increase BA Could manage as uneven aged stand and cut with stand 1 to NW. Tr of R, E, BC, BA in canopy.
5	4199 - Other Mixed Upland Deciduous	Medium Density Log	5.8	75	111-140	Some good quality red oak. Ave BA 118. Use old landing @ N end with loop turnaround. Found: 1 witness tree on E side of Lakeshore Dr. at NE corner of stand, along with blue DNR carsonite "witness post" and one witness tree on W side of Lakeshore. Found: DNR monument and witness trees at NW corner of stand 5 to west, adjacent to Secord Lake. Also still blue marked trees along north end of stand 10 to west from harvest in '08.
6	6139 - Mixed Lowland Forest	High Density Log	6.6	Uneven Age		
7	6115 - Lowland Ash	High Density Log	64.8	62		
10	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	1.3	75		Broad deep drainage with trees along "banks". An inclusion that runs length of stand 7 on west side. Tr of RO, SB, Hem in subcanopy.
12	4130 - Aspen	Medium Density	13.0	4		
14	4119 - Mixed Northern Hardwoods	High Density Pole	20.7	40		
16	4130 - Aspen	Low Density Sapling	30.9	3		
20	4125 - Black, N. Pin Oak	Medium Density Pole	20.6	68	1-50	SW end is a ridge of dense RP. Shelterwood harvested 2008: Lakeshore Power sale. No new regen except few RM stump sprouts at E edge, but this will be good O stand that will continue to fill in with new regen. E 2/3 little wetter with small patches of V. Found: Remon monument: red painted post. Trace of SB, R, M, WO (canopy); M, HS, B, M (sub)
21	4130 - Aspen	Medium Density	20.8	4		Clearcut '08: Lakeshore Power Sale. Regenerated fairly well, despite low to moderate deer browse. Nice supercanopy RO residual from harvest. Mostly M in southern 15% of stand. Tr of CC, B (canopy); SB, W (sub)

S t	Gladwin	Mgt. Unit		5 – For	ested Sta	nds Compartment: 055 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	42200 - Natural White Pine	High Density Log	3.7	Uneven Age		Trace of B, SB, BC in subcanopy
25	4125 - Black, N. Pin Oak	Medium Density Log	39.1	68	1-50	Shelterwood harvested 2008: Lakeshore Power Sale. Low level of RM and O stump sprouting, and aspen sprouting. Fairly high level of deer browse on new regen. Trace of CC, BTA, B, R, WO, SM (canopy); M, BTA (sub)
26	4199 - Other Mixed Upland Deciduous	High Density Pole	6.1	68		Volume and ave D not very high, and not at rotation age. Not harvested with rest of old OI stand 15 (current p.i. st 21) in '08 because of this. Tr of B (canopy)
28	6132 - Mixed Lowland Forest with Cedar	High Density Log	7.7	76	51-80	Cedar drain.
29	4125 - Black, N. Pin Oak	High Density Log	5.2	68	1-50	More mesic and much more maple than st 21 to W. Small V patches and hummocky areas.
30	42110 - Planted Red Pine	Medium Density Log	10.1	52	141-170	Row thinned in 2008: Lakeshore Power sale. Very wet for R: V and moss ground cover in 66-75% of stand. 10% R over bog (lowland). HOLD. Reduce BA to 90 to 120 through individual tree marking in 2024, removing larger diam. trees. Will have some power poles. Will want to use dry/frozen and rutting spec. Tr of W, J, Tam (canopy); W, Vib, SB, CC (sub)
31	4191 - Mixed Upland Deciduous with Conifer	High Density Log	7.7	Uneven Age		Aspen is getting decadent: some mortality. Somewhat mesic upland with occasional hummocks. Not much more than 30% of canopy is log sized trees. North end seems a little poorer, sparser site; the supercanopy white pine in this area is a little branchy. In some areas vigor of oak in canopy is a little poor. Tr of B, F in canopy.
32	4310 - Pine, Oak Mix	Medium Density Log	4.8	68		Poorer, sparser site than st 21, thus was excluded from harvest. V ground cover much O' stand. In long term probably want to let it fill in with white pine and manage as white pine/oak uneven aged stand. Tr of QA in subcanopy.
34	6115 - Lowland Ash	Medium Density Pole	51.1	76		Mucky/peaty soil. Lot of dead/down cedar. More conifers, sparser and more slash toward south end, more maple toward Northeast end. Tr o' E, DW, BA, TA in subcanopy.
37	6127 - Lowland Pine	Low Density Log	2.3	68	1-50	Ground cover is leatherleaf/blueberry. Tr of Tam (canopy); R, O, M, Tam (sub)
38	4125 - Black, N. Pin Oak	Low Density Pole	25.2	25	1-50	Dissected by several drainages. Ground cover bracken and 5% V/L. Few naturally occurring JP at far N end have moderate growth. Kotar PArVCo habitat type. Trace of R, WO and SWO (canopy); Vib, Willow, W, R, M, SB and Haz (sub)
39	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	3.2	25		Inclusion: upland/lowland difference with p.i. st 31; forested/non with p.i. st 29.

S t	Gladwin	Mgt. Unit		5 – Fo	prested Sta	nds Compartment: 055 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	42290 - Natural Mixed Pine	High Density Log	2.4	68	51-80	Southwestern 40% is treed bog (23-35% cover, log to sap size). Rest is operable but reserve this small stand for age and species diversity. Tr of Tam, QA, B, J (canopy); Vib, J, SB, R, Tam (sub)
42	6113 - Lowland Maple	High Density Pole	1.9	25		Inclusion: forested/non difference with stands to east; upland/low to south; coniferous/decid to west. Tr of W in subcanopy.
44	4199 - Other Mixed Upland Deciduous	Medium Density Pole	7.3	37		Drainage cuts through NE corner; could be crossed. Very shallow, hummocky drain runs N-S through 3/4 of stand: also can be easily crossed. Found: monument w/ 2 cedar posts painted red on top between Lakeshore Dr and power line. Witness T @ NW edge O' this st: monument is 1" pipe due west of this. Tr of GA, R (canopy); W, B, F (sub)
46	42110 - Planted Red Pine	High Density Log	2.9	52	111-140	Row thinned in 2008: Lakeshore Power sale. HOLD. In 2024 probably want to reduce BA to 90 to 120 through individual tree marking, removing larger D trees. Will have some power poles. Tr of W, J, Tam (canopy); W, Vib, SB, CC (sub)
48	4125 - Black, N. Pin Oak	High Density Pole	13.5	68	1-50	5% lowland in two small patches at N. end. 1.5 acre clump of mature white pine at W edge. Northwestern lobe is sparse. Tr of R, B, BC (canopy); BC, W, R (sub).
49	4131 - Aspen, Oak	Medium Density	10.0	25		S end is hummocky. N end more L, P sized oak. Very low SI for aspen, but this stand DID regenerate to aspen. Tr of W (canopy); W, O, M (sub)
50	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	5.3	68		Tr of CC (canopy)
57	4125 - Black, N. Pin Oak	Medium Density Pole	4.6	25	1-50	Trace of QA, BC, Tam (canopy); W (sub)
58	4199 - Other Mixed Upland Deciduous	High Density Log	51.4	86		Northern 2/3 has much heavier white pine and balsam fir. Northern 1/5 gets wetter and is hummocky with heavy red maple saps and fir seedlings. Long, moderately narrow low area runs about 40% of length of stand near SW edge. 5-10% lowland, including drainages that would have to be armored to cross. Trace of BA (canopy); TA, C, BB (sub)
61	4125 - Black, N. Pin Oak	High Density Log	21.2	80	51-80	Northern 8 ac have BA of 90, slightly lower oak ave diameter, and limited advanced regeneration (most of regen is supressed oak saplings or offsite red maple). Southern 13.2 ac has BA of 69, almost 20 BA of red maple and black cherry, and good cohorts of oak poles and 3-4" oak saplings. The oak in this stand is black/red hybrid and has fairly good stem quality. The northern treatment and western 1/2 of the southern treatment is on a very good Kotar PArVVb/AFO site; the southeast half of the southern treatment is a fairly good PArVCo site. Trace of paper birch, American beech and quaking aspen in canopy, white pine in subcanopy.
63	6115 - Lowland Ash	Low Density Sapling	13.2	76		Very low SI if age correct. Mucky soils with areas of marsh; lot of lowland "bunch grass" as ground cov. Tr of C (canopy); O, C (sub)

S	Gladwin Mgt. Unit			5 – Fo	orested Sta	nds Compartment: 055 Year of Entry: 2014	
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
64	4130 - Aspen	High Density Sapling	88.6	25		W end more mesic, E end has tr of hazel. Stand in process of self thinning. Portions of stand have hypoxylon canker (roughly 5 acres), mostly along main road that goes east in to comp 63. Mortality from hypoxylon is low at this point. Site is Kotar PArVVb/AFO (fairly rare on Gladwin County state forest land), and would be very good site to trench and plant Red Pine next rotation. Tr of CC, B, W (canopy); W, SB, F, Rose, sumac, haz, J, AO (sub)	
66	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	5.3	76	51-80	Aspen decadent and dying, EAB mortality advancing. Will leave roughly 35 BA of mostly red maple. Very prohibitive access and wet. Tr of Haw, W, BC, B and F in subcanopy.	
68	42200 - Natural White Pine	High Density Log	10.5	68	111-140	Good opportunity to utilize large diameter trees and maintain small percentage of early seral and intolerant/midtolerant species in stand (aspen, red pine, oak)	
70	6119 - Mixed Lowland Deciduous Forest	High Density Pole	9.7	65		More upland (hummocky) with larger timber and some oak at S. edge. Tr of O, BC in understory.	
71	6119 - Mixed Lowland Deciduous Forest	High Density Pole	16.4	76		Stand consists of three large drainages: very wet. Most of QA dead, rest very decadent. Tr of CW, SWO, BC (canopy); BB, F (sub)	
73	4125 - Black, N. Pin Oak	Low Density Sapling	13.9	12		Tr of B, W (canopy); Rose, W, SB (sub)	
74	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	9.8	76	51-80	30-40% upland. Aspen decadent and will die out of stand soon. EAB active in stand with some mortality. 36 BA of red maple is what will be left. Very prohibitive access and wet. Tr of Haw, W, BC, B, F in subcanopy.	
75	4130 - Aspen	High Density Pole	17.3	38		Red maple is offsite. Higher SI than p.i. stand 61. Good candidate for red or white pine trenching and planting in 10 years; site is Kotar PArVVb/AFO, which is a better site than most in Gladwin county. Tr of F, B, R, RO (canopy); SB, BC, M, F (sub)	
76	4132 - Aspen, Jack Pine	High Density Sapling	8.9	25		Looks like Kotar PVCd: low SI (50-55). NOT AN ASPEN SITE: Consider harvesting early and planting pine. Looks like jack pine site (J SI seems to be better), but Kotar map says this is mostly a PArVVb/AFO site with a little PArVCo. Tr of R (canopy); J, W and SB (sub)	
77	4125 - Black, N. Pin Oak	Low Density Sapling	23.3	13		Rx burn in 1999 is considered year of origin. Burn successfully stimulated good oak regeneration. Was classified as G type in '92; no record of timber harvest before this. Few supercanopy oak and red pine. Some mortality from fire in large oak. Northern portion has more supercanopy oak and some small sedge openings. Tr of R, B, SB, W in canopy.	
78	4311 - Pine, Aspen Mix	Medium Density Log	8.1	68		1st age is 68. When aspen is rotation age in 2024, assess level of white pine regen. Could manage as pine or aspen. Aspen has been supressed by pine. Tr of R, BC (canopy); O, R, J (sub)	

S t	Gladwin	n Mgt. Unit		5 – Fe	orested Sta	nds Compartment: 055 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
79	4130 - Aspen	Medium Density	4.7	12		Tr of B, J (canopy); Willow, Haz (sub)
81	6113 - Lowland Maple	Medium Density Pole	32.5	60		Oak ridge a few acres in size at far SW end. NE 1/3 much wetter drainage. Rest is more mesic and could possibly be operable. Tr of W, BC, GA (canopy); O, W (sub)
82	4130 - Aspen	High Density Sapling	7.0	12		Tr of SB, M, W, O, R, J (canopy); W, AO (sub)
85	4130 - Aspen	High Density Pole	48.6	38		Nice stand. Good vigor. Little wetter at S 1/3 to 1/2. Soil is slightly finer than many local soils. Trace of B, W, O (canopy); W, F, R, BC, AO, SB, O, CC (sub)
87	4139 - Aspen, Mixed Deciduous	Medium Density Pole	12.4	38		SE corner is pole/sap sized E type with M, B, O, CC, W, QA, TA (10% of stand). Very low SI compared with stand to N: THIS IS NOT AN ASPEN SITE. When harvest, clearcut and plant red or white pine. Small hummocks. Tr of SWO, J, R, BC (canopy); W, Vib, M, SB (sub)
88	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	10.2	12		If this was aspen, it didn't regen as aspen. Small bog at E end, ridge at N end, small marsh in center. DNR cedar post and painted witness trees "found" in NE corner. Tr of SB, Scotch pine, QA (canopy); willow (sub)
89	42110 - Planted Red Pine	High Density Pole	13.8	52	111-140	Row thinned 2008. Ave diameter 9.6". 15-20% of logs 10-14" D. Evaluate next YOE: could thin to 90 BA and have mostly a log/power pole sale. Heavy aspen regen in narrow areas at N and S end. There are a few small, healthy red pine seedlings since thinning. Tr of M, BS, BTA, O (canopy); R, F (sub)
90	4133 - Aspen, Mixed Pine	Low Density Pole	4.7	25		Formerly G type: tree crowns have expanded and trees have seeded in. Probably harvested with stand to N. Tr of AO, W in subcanopy.
92	4130 - Aspen	Low Density Sapling	8.1	4		Clearcut Nov '08: Lakeshore Power sale. 30-35% lowland. Regererated fairly well. Residual white pine along rd. DNR survey mon. found at N end on E side of Lakeshore Dr. Trace of DW, W, HS, Vib in subcanopy.
93	4139 - Aspen, Mixed Deciduous	High Density Log	9.7	85		Good mostly upland with a few vernal ponds. Heavy false cedar ground cover. Tr of RO, O in canopy.
94	4199 - Other Mixed Upland Deciduous	Medium Density Pole	3.2	60		Add to FL layer because inaccessible. Estimated cover: Canopy 56% WP PLS size, 23% M PSL size, O 18% PLS size, B 3% PS size. Subcanopy with SB, M, O and W.
95	4130 - Aspen	High Density Pole	49.5	38		<ul> <li>80-90% upland. Most of stand has shallow microrelief. Diam growth not enough to warrant early harvest. When harvest, consider diong aspen removal during dry/frozen conditions.</li> <li>Bisected by 2 narrow drainages running west into stand to west. Tr of W, O, BA, F, C, TAM, R (canopy); F, O, TA, SB, BB (sub)</li> </ul>

S t	Gladwin	n Mgt. Unit		5 – Fo	prested Sta	nds Compartment: 055 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
97	6112 - Lowland Aspen	Medium Density Pole	40.9	25		31% pole sized. Grades from higher and drier at E edge to L type along power line. Tr of SWO, Black Gum, RO, E (canopy); BC, pumpkin ash, DW (sub)
99	6112 - Lowland Aspen	Medium Density Pole	34.0	25		There are areas where aspen Diam averages 6-7 inches and areas where it is 8-9 inches. Appears to be a bit older than 25. 25-35% upland. Will have to harvest during dry/frozen conditions when harvested. Narrow strip at S end between stands 87 and 88 grades into tag alder to west; this area may be good place for retention when harvested. Drainage that forms stand 87 continues north into this stand. Tr of pumpkin ash (canopy); E, RO seedlings, W, SWO, MH (sub)
100	4130 - Aspen	Medium Density	11.2	4		Clearcut 2008: Lakeshore Power sale. Regenerated well. Tr of B, R, W (canopy); BS, Rose, W (sub)
101	42110 - Planted Red Pine	Medium Density Pole	3.2	53		Thinned '08: Lakeshore Power sale. Oak is 80 years old. Tr of R, O, M in subcanopy.
102	4310 - Pine, Oak Mix	Low Density Log	1.5	85		Factor limit: narrow strip between 114 and 26 feet wide. Strip between Lakeshore Dr. and Private land: too narrow to operate in without impacting private land and/or Lakeshore Dr. ROW.
103	4130 - Aspen	High Density Pole	13.7	39		Candidate for early harvest to regulate aspen in Gladwin Unit as discussed at pre-review. Trace of BC, GA, W (canopy); B, W, CC, J, Vib, F (sub)

Gladwin Mgt. Unit

6 – Nonforested Stands

Compartment: 055 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
8	710 - Sand, Soil	2.5	N\A	Unspecified	Dirt portion of Lakeshore Dr. Drop down for Cover Type doesn't give me cover type 122 as option.
9	50 - Water	4.5	N\A	Unspecified	
11	3301 - Low Density Deciduous Tree	8.2	N\A	Unspecified	15-20% O, W, M, B, R, SB. 5% in middle actually part of stand 13
13	6225 - Bog	2.1	N\A	Unspecified	nearly pure bog
15	6225 - Bog	3.6	N\A	Unspecified	5-10% Tam, W, aspen sprouts
17	6225 - Bog	2.4	N\A	Unspecified	5-10% Tam, W, aspen sprouts
18	6224 - Treed Bog	1.7	N\A	Unspecified	20% marsh at S end. 15% QA, M, O, R
19	3105 - Mixed Upland Herbaceous	11.9	N\A	Unspecified	Bracken, Grass, upland short shrubs, some timber at W edge near Lakeshore Dr.
22	6225 - Bog	1.0	N\A	Unspecified	
23	3102 - Grass	5.4	Natural Reger	n Aspen	<ul><li>16% maple stump sprouts. 3% of cover is aspen. Clearcut</li><li>2008: Lakeshore Power sale. Sprouts above browse line so</li><li>I would call regenerated, but not 25% canopy. Ground cover</li><li>marsh grass and trace of rose and TA.</li></ul>
27	6232 - Wet Prairie	4.9	N\A	Unspecified	marsh with 10-15% black ash and some maple
33	6224 - Treed Bog	2.1	N\A	Unspecified	Barely 15% B, O, W, Tr of Tam
35	629 - Mixed non-forested wetland	2.7	N\A	Unspecified	TA (short) over N and V. 30-40% at SW is low density trees (O, W) and braacken.
36	6225 - Bog	7.7	N\A	Unspecified	V, with 15% L, N.
41	6225 - Bog	3.1	N\A	Unspecified	5-10% W, J, Tam, QA
43	6225 - Bog	5.9	N\A	Unspecified	< 5% R, W, Tam
45	6224 - Treed Bog	3.8	N\A	Unspecified	Just > 15% Tam

Gladwin Mgt. Unit

# 6 – Nonforested Stands

Compartment: 055



Year of Entry: 2014

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
47	6220 - Alder/willow	3.4	N\A	Unspecified	Willow and TA
51	11 - Low Intensity Urban	1.0	N\A	Unspecified	
52	6220 - Alder/willow	8.6	N\A	Unspecified	Mostly short, medium density willow (5' tall). 10-20% N
53	6230 - Cattail	8.5	N\A	Unspecified	50% open water, 40% N, 10% ash
54	6224 - Treed Bog	7.9	N\A	Unspecified	15% O, W, QA, M, SB over V. 30-40% upland (G, bracken)
55	3301 - Low Density Deciduous Tree	5.4	N\A	Unspecified	Large areas are treeless with bracken. Small, stunted, diseased bigtooth aspen clone at SW edge. Scattered O, W, Cherry
56	6220 - Alder/willow	6.4	N\A	Unspecified	Moderately dense TA, willow over marsh grass.
59	6225 - Bog	2.9	N\A	Unspecified	
60	6220 - Alder/willow	6.9	N\A	Unspecified	Moderately dense TA about 14' tall over marsh grass
62	6232 - Wet Prairie	16.4	N\A	Unspecified	Marsh: 30-35% willow 4 ft tall.
65	6220 - Alder/willow	15.0	N\A	Unspecified	50-50% willow/tag alder
67	3103 - Rubus-Fern	1.0	N\A	Unspecified	Bracken
69	6224 - Treed Bog	2.3	N\A	Unspecified	15% O, W, QA, M, SB over V. 30-40% upland (grass, bracken)
72	3105 - Mixed Upland Herbaceous	7.1	N\A	Unspecified	Power line clearing. G, bracken, upland shrub and herb. 5- 10% lowland.
80	6225 - Bog	2.6	N\A	Unspecified	Small area of L and trees in SW corner.
83	6232 - Wet Prairie	1.4	N\A	Unspecified	20-30% V
84	3303 - Mixed Low Density Trees	3.0	N\A	Unspecified	20% M, O, R, B, W, SB

# Gladwin Mgt. Unit

## 6 – Nonforested Stands

Compartment: 055



Year of Entry: 2014

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
86	6239 - Mixed Emergent Wetland	15.5	N\A	Unspecified	15% floating aquatic, 15% cattail, 15% L, 55% marsh.
91	6220 - Alder/willow	1.6	N\A	Unspecified	60% willow over V and marsh grass. 40% barely upland brush (1-2 ft tall shrubs). Scattered trees.
96	6225 - Bog	5.3	N\A	Unspecified	Mostly leatherlf. pure bog
98	629 - Mixed non-forested wetland	15.6	N\A	Unspecified	About 50% willow and 50% N.
104	6220 - Alder/willow	1.2	N\A	Unspecified	TA + B, BA, willow
105	629 - Mixed non-forested wetland	3.1	No	Unspecified	Lakeshore Drive paved portion and Highway 61. IFMAP drop down menu for non forested cover type does not give me cover type 122, which is road/parking lot (5-11-12). 720 is closest cover type.
106	6220 - Alder/willow	7.6	N\A	Unspecified	TA + B, Tam, W, BA, pumpkin ash, DW, HS, willow
107	3302 - Low Density Conifer Trees	2.1	N\A	Unspecified	G with 5-10% R, W, BS seedlings, and some AO. Looks like was trenched but didnt fully regen or wasnt planted.
108	6230 - Cattail	5.6	N\A	Unspecified	marsh with <5% 3-4' tall willow. Shallow water.
109	3202 - Autumn Olive/Honeysuckle	6.1	Yes	Red Pine	AO 30%. Trees 5% (R, BTA, W, elm, WA, O, B). Grass 38%. Old Hay township dump. Direct seed J or R with WLD approval?
110	3302 - Low Density Conifer Trees	1.5	N\A	Unspecified	20-25% bare sand from ORV's. Scattered trash from dump.
111	790 - Other Bare/Sparsely Vegetate	2.1	N\A	Unspecified	Wide spot near p.i. stand 89 is bare sand slope caused by ORV's. Stumps were placed throughout area to rehab; in process of rehab. Rest of area along highway 61 is bare soil, grass, upland herbaceous including bracken.



# 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.

Stand	SCA Type	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.

			ERA = Ecological Reference Area
Conservation	Type	Description	HCVA = High Conservation Value Area
Area	- )   -		SCA = Special Conservation Area

