

Revision Date: August 18, 2011

Stand Examiner: Tom Seablom

Legal Description: T45N R28W Sec. 28 except SESW and SWSE; Sec 33 except NWNW and W1/2NW

RMU (if applicable): Chain Lakes Moraine Management Area

Management Goals: Goals within this compartment are timber production, wildlife habitat management and protection of water quality. Timber management is primarily for fiber production, with some sawlog management where appropriate, and is managed using even age techniques. Managing the timber in this manner continues to provide for early successional wildlife habitat. Applying proper Best Management Practices (BMP's) during timber harvests and road work ensures water quality protection.

Soil and Topography: Soils belong to the Rubicon-Keweenaw (RK) and Sagola-Rubicon (SR) Associations. The Rubicon-Keweenaw soils are very deep, well drained to excessively drained, sandy soils. Sagola-Rubicon soils are very deep, well to excessively drained, loamy and sandy soils. Minor soil types within these associations such as the Carbondale, Greenwood, and Deford types are present within depressions and drainages. Topography is fairly level with some gently rolling hills.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership within and surrounding the compartment is primarily state land. Scattered small private in holdings do exist as does the Michigan Northwoods Club which is a large private land holding approximately 2 miles to the northeast. Development on these private parcels is hunting camps. Land use is timber production and recreation.

Unique, Natural Features:

Potential for osprey, eagle, and great blue heron rookery. Potential for moose, wolf and wood turtle. Potential for auricled tway-blade and linear-leaved gentian along riparian areas. Potential for Farwell's water-milfoil and alternate-leaved water-milfoil in shallow lakes. Potential for purple clematis in dry-mesic conifer stands.

Archeological, Historical, and Cultural Features: An old logging railroad grade does exist which transported logs to Kate's Grade from the Flat Rock area.

Special Management Designations or Considerations: Special Conservation Area's (SCA's) exist within this compartment along the water ways.

Watershed and Fisheries Considerations: Follow proper BMP's along with a 300 foot buffer along designated trout streams and a 100 foot buffer along all other streams and any lakes. The Flat Rock Creek and a tributary to the Wild West Creek flow within this compartment and are both cold water trout streams.

Wildlife Habitat Considerations: Maintain or increase potential of hard mast production by utilizing management strategies that encourage oak. Manage for within-stand diversity by protecting and/or enhancing white and red pine, and strive to increase diversity for wildlife. Maintain the best age class diversity in aspen. Strive to increase within-stand diversity in aspen by utilizing retention guidelines to

provide the best combination of food and cover. Within Special Conservation Areas along creeks and tributaries maintain large closed canopy conifer to provide snow intercept and cover, mature forest structure and protection for wildlife corridors and riparian areas. Diversity in habitat types in this compartment offers a variety of hunting, trapping, and wildlife viewing opportunities.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck and medium-textured and coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. There is not a current economic use for the Granite/Gneiss. A rock (?) quarry is indicated on the topo one-half mile to the north. Gravel pits are located four miles away, and potential may be good to the south. The abandoned Republic iron mine is located ten miles to the northwest. Sections 28, 29 and 34 were previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Access within the compartment is fair. The Camp Hope Road provides access from the north and secondary woods roads provide access from the south off of Co. Rd. COO. An easement does exist through the Camp Hope Inc. property which allows a through route. Portions of these roads are very rough.

Survey Needs: None

Recreational Facilities and Opportunities: At this time there are no developed recreational facilities. Potential does exist for a rustic campground along the Flat Rock Creek.

Fire Protection: This area is within the Ishpeming Field Office protection area and is approximately two miles south of the 581 Zone Dispatch area. Timber types within this compartment are not very fire prone. Roads exist throughout the compartment providing decent access in the event of a fire.

Additional Compartment Information: None

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

> The following information is displayed, where pertinent, on the attached compartment maps:

- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Details on the road access system

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Table 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Thomas Seablom : Examiner





	Age class																
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	/ 201				/		/		/		/	/			1 35		/
Aspen	0	132	112	138	100	21	0	0	0	20	0	0	0	0	0	523	[
Cedar	0	0	0	0	0	0	0	0	0	43	18	2	0	26	0	89	
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Lowland Conifers	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	48	
Lowland Deciduous	0	0	0	0	3	0	0	0	5	0	0	0	0	0	0	8	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11	
Lowland Shrub	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166	
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	29	94	0	0	0	0	0	123	
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	
Northern Hardwood	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	8	j
Paper Birch	0	0	0	0	0	0	0	0	13	5	0	0	0	0	0	18	Ì
Tamarack	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4	
Upland Conifers	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5	Ì
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	31	İ
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Upland Spruce/Fir	0	0	0	0	13	0	0	16	0	0	0	0	0	0	0	29	İ
Total	203	132	112	138	117	21	0	16	58	259	18	5	0	26	0	1104	



Table 2 – Proposed Treatment Summaries

MICHIGAN	Gwinn Mgt. Unit Year of Entry 2013											Compartment Total Compartment Acres:	239 1104
					Acre	s by T	reatm	ent Ty	ре				
	Commercial Harvest - 126	Site P	rep - 0		Т	ree Pl	anting	- 0		Pres	cribed Burn - 0	Other - 42	
	Habitat Cut - 0	Openi	ng Maintena	ince - 0	Т	ree Se	eeding	- 0		Pesti	cide - 0		
					Cov	er Typ	pe by H	Harves	st Meth	nod			
	Aspen			20 9					1000 0000 0000 0000 000000000000000000	20	Pres		
	Lowland	d Conifers		10	0	7	0	0	0	17	I		
	Lowland	d Mixed Fo	orest	11	0	0	0	0	0	11	Î		
	Lowland	d Spruce/F	ir	35	0	0	0	0	0	35	Ī		
	Paper B	Birch		5	0	0	0	0	0	5	I		
	Tamara	ck		0	0	4	0	0	0	4	Ī		
	Upland	Mixed For	est	24	0	0	0	0	0	24	I		
		Γ	Total	114	0	11	0	0	0	126			

S t		G	Gwinn Mgt. Unit	Table 3 wi	Tre th No	eatments Pres Limiting Facto	scribed or	Compartment: 239 Year of Entry 2013	AND ANTURY PRODUCTS
a n T d	Freatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4 32	2239004W- Cut	6.8	6124 - Lowland Spruce-Fir	High Density Pole	82	Harvest	Seed Tree with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
Prescript Specs:	ion_Seed tre	ee harves	t leaving approx. 5%	of the canopy in mix	ked spe	cies. Do not cut ce	edar as this is a minor	component in the stand.	
<u>Other</u> Commen	Leave a	in appropi	riate width buffer alor	ng Scarffe's Creek.					
<u>Next</u> Steps:	Accepta	ible regen	eration species inclu	ides, spruce, fir, tam	arack, a	aspen, birch, mapl	e and cedar.		
8 32	239008-Cut	11.0	6139 - Mixed Lowland Forest	Low Density Pole	76	Harvest	Clearcut with Reserves	6139 - Mixed Lowland Forest	Cmpt. Review Proposal
<u>Prescript</u> <u>Specs:</u>	<u>ion</u> Clearcu the star	t this stan id.	nd retaining 3-10% of	the canopy. Trees	retained	should include a	mix of the species pre	esent and are to be scatte	ered throughout
<u>Other</u> Commen	This is a <u>nts:</u>	a lower sit	e and should be har	vested during the wir	nter mo	nths.			
<u>Next</u> <u>Steps:</u>	Accepta	ible regen	eration species inclu	ıde birch, aspen, fir,	spruce,	cedar and balm.			
10 32	2239010trt- Cut	21.5	6122 - Black Spruce	High Density Pole	82	Harvest	Patch or Strip Clearcut	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescript</u> Specs:	<u>ion</u> It is beir approx.	ng prescri 75-100 ft	bed to utilize either s . wide leaving 150 ft.	trip cuts or large (4- between strips. If pa	5 acre) atches a	patch cuts to harve are utilized they sh	est this stand. Strips sould be laid ou	should be laid out runnin	g north-south
<u>Other</u> Commen	Access hts: may be	to this sta involved.	and is very limited. A Slash needs to eith	new road will need t er be scattered or re	o be co moved	nstructed to enter from the site and r	this stand. Depending not left in a mat as this	g on the route taken, a st	ream crossing
<u>Next</u> <u>Steps:</u>	Harvest entry ar	the remand the rem	inder of the stand ov naining at the subseq	er the course of the uent YOE. Accepta	next two ble rege	o entry periods ha	rvesting 1/2 of the wid includes, spruce, fir, ta	th of the strips that are le am	ft at the next
11 32	239011-Cut	4.8	4130 - Aspen	Medium Density Log	81	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescript</u> Specs:	<u>ion</u> Clearcu	t this stan	d reserving scattered	d mature aspen and	some p	ole size spruce-fir			
<u>Other</u> Commen	Retain a <u>nts:</u>	aspen and	l spruce-fir to meet 3	% retention. Strive t	o create	e clumps when sel	ecting retention trees.		
<u>Next</u> Steps:									
23 32	2239023trt- Cut	7.9	4319 - Mixed Upland Forest	High Density Log	81	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
Prescript Specs:	<u>ion</u> Clearcu opening	t this stan	d harvesting all trees	s greater than 2-iche	s dbh. F	Retain scattered m	nature aspen and pole	size spruce around the	edge of the
<u>Other</u> Commen	Leave a	corridor	varying in width from	50-100 ft. along the	east ec	lge of the stand to	provide a wildlife corr	idor.	
<u>Next</u> <u>Steps:</u>	Accepta	ible regen	eration includes aps	en, balm, spruce an	d fir.				

S t		G	winn Mgt. Unit	Table 3 wi	Tre th No I	atments Pre _imiting Fact	scribed tor	Compartment: 239 Year of Entry 2013	DR NATURA READ
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24 3	2239024trt- Cut	16.1	4319 - Mixed Upland Forest	High Density Pole	83	Harvest	Clearcut with Reserves	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
<u>Prescrip</u> Specs:	tion_Clearcut	this stan	d cutting all trees gre	eater than 2-inches o	dbh. Lea	ive scattered tre	es along the western ar	nd southern edge of the	stand.
<u>Other</u> Comme	If this sta <u>nts:</u> a logginę	and is hai g perspec	rvested, the adjacent stive. Stream crossir	t stand (48) in Comp ngs will be needed ir	artment i just abo	238 should be h out every scenar	arvested as well. Accea	ss to this stand is extren	nly difficult from
<u>Next</u> Steps:	Accepta	ble regen	eration species inclu	de aspen, birch, spr	ruce and	fir.			
27 32	2239027-Cut	13.1	6122 - Black Spruce	High Density Pole	75	Harvest	Patch or Strip Clearcut	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
Prescrip Specs:	<u>tion</u> It is bein Strips sh	g prescril ould be o	bed to patch or strip prientated north-sout	cut this stand. A sm h and be approxima	all island tely 75-1	of upland exists 00 feet in width	s on the southern edge with 150 ft between str	of this stand that should	be clearcut.
<u>Other</u> Comme	Slash ne nts:	eds to ei	ther be scattered or i	removed from the si	te and no	ot left in a mat as	s this will impede the re	generation of the site.	
<u>Next</u> <u>Steps:</u>	Residua birch, an	l strips sh id cedar.	nould be cut over the	next one to two entr	ry period	s. Acceptable re	egeneration species inc	ludes, spruce, fir, tamar	ack, aspen,
30 32	2239030-Cut	9.4	6120 - Lowland Cedar	High Density Log	180	Harvest	Patch or Strip Clearcut	6120 - Lowland Cedar	Cmpt. Review Proposal
<u>Prescrip</u> Specs:	<u>tion</u> Strip cut approxin	ting is be natly 150	ing prescribed for thi ft of uncut timber be	s stand. Strips shou tween the strips. Th	ld be orio is is a lov	entated in a nort	h-south direction, appro hould be harvested dur	ximately 75-100 feet in	width leaving
<u>Other</u> Comme	Slash ne nts:	eds to ei	ther be scattered or I	removed from the si	te and no	ot left in a mat as	s this will impede the re	generation of the site.	
<u>Next</u> Steps:	Monitor aspen, b	regenerat irch, and	tion here on a yearly cedar.	basis to determine i	if this will	work. Acceptat	ble regeneration species	s includes, spruce, fir, ta	marack,
42 32	2239042-Cut	10.2	6124 - Lowland Spruce-Fir	High Density Pole	89	Harvest	Patch or Strip Clearcut	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
Prescrip Specs:	tion It is bein feet wide	g prescril e with app	bed to cut this stand proximately 150 feet	using either strips o inbetween the strips	r patch c If patc	learcuts. Strips she are utilized t	should be orientated in hey should be orient	a north-south direction b	eing 75-100
<u>Other</u> Comme	Slash ne nts:	eds to be	e scattered or remove	ed from the site and	not left i	n a mat as this v	will impede the regenera	ation of this stand.	
<u>Next</u> <u>Steps:</u>	Residua aspen, b	l strips sh irch, and	ould be harvested or cedar.	ver the next one to t	wo entry	periods. Accep	table regeneration spec	ies includes, spruce, fir,	tamarack,
48 32	2239048-Cut	5.3	4140 - Other Upland Deciduous	Medium Density Log	88	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescrip</u> Specs:	tion Clearcut	this stan	d cutting all trees rec	gardless of merchan	tability e	xcept any white	pine that are present wi	thin the stand.	
<u>Other</u> Comme	Zero rete nts:	ention is I	peing recommended	due to the small siz	e of this	stand.			
<u>Next</u> Steps:	Accpeta	ble regen	eration species inclu	de birch, aspen, ma	iple, spru	ice, fir, and pine			

S t	Gwinn Mgt. Unit S t				Table 3 wi	Tre ith No I	atments Pre _imiting Fac	scribed tor	Compartment: 239 Year of Entry 2013	DR NATURAL PROVINCES	
a n d	Treatn Nam	nent ne	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
56	3223905	56-Cut	4.4	4134 - Aspen, Spruce/Fir	Medium Density Log	88	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal	
Preso Spec	<u>cription</u> C <u>s:</u> fo	Cut all as orm.	pen, sp	pruce, balsam fir, and	maple regardless o	f mercha	ntability. Thin th	rough the pocket of whi	te pine, favoring those w	ith good growth	
<u>Othe</u> Com	<u>r</u> Z <u>ments:</u>	ero rete	ntion of	species other than w	hite pine is being re	commen	ded in this stand	d due to the small stand	size.		
<u>Next</u> Steps	A <u>5:</u>	cceptab	le rege	neration species inclu	ide aspen, spruce, f	ïr, maple	, and pine.				
57	3223905	57-Cut	4.4	6121 - Tamarack	High Density Pole	e 83	Harvest	Seed Tree with Reserves	6121 - Tamarack	Cmpt. Review Proposal	
Preso Spec	<u>cription</u> A <u>s:</u> tł	seed tr	ee harv ining ta	est is being prescribe marack, spruce and b	d for this stand. Ma balsam. No other tre	rk out ind ees are to	lividual tamarack b be cut. This is a	<, spruce, and balsam a lowland site and shou	mounting to 10 seed tre Id be ha	es/acre. Cut	
<u>Othe</u> Com	<u>r</u> S ments:	lash sho	ould be	scattered or removed	I from the site. It is o	desired to	o not have a slas	sh mat as this will impeo	le regeneration of the st	and.	
<u>Next</u> Steps	۵ <u>3:</u>	cceptab	le rege	neration species inclu	ides, spruce, fir, tan	narack, a	spen, birch, and	cedar.			
58	3223905	58-Cut	10.7	4137 - Aspen, Birch	Medium Density Log	88	Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal	
Preso Spec	<u>cription</u> C <u>s:</u>	Cut all tre	es exc	ept red and white pine	e and mark out appr	oximately	y 10 aspen and I	birch trees (combined) s	selecting those that are o	culls.	
<u>Othe</u> Com	<u>r</u> F <u>ments:</u>	Retentior	n should	l be a maximum of 3%	6 for this stand.						
<u>Next</u> Steps	А <u>5:</u>	cceptab	le rege	neration species inclu	ide aspen, birch, sp	ruce, fir,	maple and pine.				
39	32239 Oth	039- er	4.7	4130 - Aspen	Medium Density Saplin	6	Other	Unspecified	4130 - Aspen	Cmpt. Review Proposal	
<u>Preso</u> Spec	<u>cription</u> F <u>s:</u>	Regenera	ation is	quite patchy in this st	and. A formal surve	y should	be done.				
<u>Othe</u> Com	<u>r</u> ments:										
<u>Next</u> Steps	F <u>8:</u>	ossible	white p	ine planting if stand is	understocked.						
43	32239 Oth	043- er	36.8	4134 - Aspen, Spruce/Fir	Medium Density Saplin	6	Other	Unspecified	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal	
Preso Spec	<u>cription</u> F <u>s:</u>	ormal re	egenera	tion survey							
<u>Othe</u> Com	<u>r</u> S <u>ments:</u> o	stand is t f this sta	the resu and.	ult of a birch seed tree	e harvest. Upon com	pletion o	of stage 1 invento	ory, it appears that adec	uate regen is lacking in	various parts	
<u>Next</u> Steps	L <u>s:</u> tl	Ipon cor nese spe	npletior ecies ar	n of the survey, areas e present throughout	lacking in regen she the surrounding lan	ould eithe dscape a	er be planted or s and within this sta	scarified and seeded wi and itself.	th either red or white pin	e. Stumps from	
A	Total Tr creage P	eatmen roposed	t I: 1	67.3							

S t		Gw	vinn Mgt. Unit	Table 4	 Treatme a Limiti 	ents Prescrib ng Factor	Compartment: 239 Year of Entry 2013	DNR DNR	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Presc Spece	ription 3:								
<u>Other</u> Comr	nent:								
<u>Next</u> Steps	<u>:</u>								
<u>Limitiı</u> <u>Treatı</u>	ng Factor and No ment Reason	<u>)</u>							
Ac	Total Treatmen creage Proposed	t d:	0						

Year	of E	ntry:	2013
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Out of YOE -- Treatments Prescribed with No Limiting Factor

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Prescription Specs:								
<u>Other</u> Comments:								
Next								

Steps:

Total Treatment Acreage Proposed:

0

S t	Gwini	n Mgt. Unit		5 – Fo	prested Sta	nds Compartment: 239 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Sapling	3.1	5		A few white birch stump sprouts have survived browsing. Stand was harvested in August/September 2004 by St. John Forest Products, Inc., TS#32-115-03-01 Camp Hope Rd. Sale. 44 birch seed trees were left.
2	4130 - Aspen	High Density Pole	42.9	24	51-80	Stand is an aspen stand with a patch of red oak on the west endt. Aspen regen is very sparse where the oak were left, leatherwood is more present in these areas. Spruce and fir poles occur in pockets. Stand was harvested in 1986 by Minerick Logging, permit #10-83 Dodge Road Block. Residual oak trees were marked before the sale was cut, approx. 5/acre.
4	6124 - Lowland Spruce- Fir	High Density Pole	24.4	82	81-110	SCA-Potential Old Growth. Buffer along Scarffe's Creek. A portion of this stand has been recommended in previous inventory for POG to provide a buffer along Scarffe's Creek, primarily the east half. The stand is predominantly lowland, some of it is upland along the aspen edge but this is a very small portion.
5	4130 - Aspen	High Density Pole	20.8	41	111-140	Stand was harvested commercially in 1969 by Roy Delongchamp, permit #11-69A.
6	4130 - Aspen	High Density Sapling	69.6	5		Stand had been cut by St. John Forest Products, Inc., August- September 2004, TS#32-115-03-01, Camp Hope Rd. Sale.
8	6139 - Mixed Lowland Forest	Low Density Pole	11.0	76	1-50	Stand is primarily composed of scattered white birch, balm, quaking aspen and balsam fir. Some black spruce and cedar exist at the northern edge of the stand. The stand must have been hit with spruce budworm in the past based on the characteristics of the overstory and the evidence of rotten stumps.
9	6116 - Lowland Birch	Low Density Pole	13.2	76	1-50	Stand is composed of white birch, aspen and balm, some black ash, and scattered balsam and black spruce. Very low volume as trees are only 2-3 sticks tall. Some of the balm are 4 sticks near the edge of the stand.
10	6122 - Black Spruce	High Density Pole	77.0	82	81-110	Stand is a mix of tamarack, black spruce, and pockets of cedar. There are a few high spots in this stand as well that are decadent white birch and balsam fir. Several rock outcrops or very large boulders rising 5-10 feet are also in this stand.
11	4130 - Aspen	Medium Density Log	4.8	81	51-80	This stand was left as a buffer around the grass opening when the larger surrounding aspen stand was cut. It's intent was to provide wildlife habitat (winter food source for budding grouse) and to prevent the opening from being overtaken by aspen sprouts. Aspen is 5-6 sticks, spruce are 4-5 and balsam are 3-5 sticks.
12	4130 - Aspen	High Density Sapling	37.2	15		Stand was harvested in August of 1994 by Charlie Dillion, permit #4-93. All cherry, oak, and cedar were left as well as those spruce having less than 4 sticks.
15	4130 - Aspen	High Density Sapling	10.5	7		Stand was harvested in 2002 by Oro Logging Inc., TS#32-112- 001-01 Camp Dodge Sale. A few scattered white pine, red oak and yellow birch present in stand as well.

S t	Gwin	n Mgt. Unit		5 – Fo	orested Sta	rnds Compartment: 239 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	4130 - Aspen	High Density Pole	43.2	22	51-80	Stand is just coming into the pole category. Some areas still have a BA of 20-30. Trees are 2-3 sticks. Stand had been harvested in January-February 1988 by Jim Carey, permit #4-86, as a spruce budworm salvage scale sale. Advanced regen was left during the sale operation. Currently spruce and balsam fir are minor components of this stand. The exist as scattered poles in the canopy and scattered saplings in the understory.
19	42340 - Upland Spruce/Fir	High Density Pole	15.7	60	81-110	Stand was left as a buffer for beaver control from previous harvest. Cedar are present along the south edge of the stand before it becomes a lowland marsh. White birch and aspen are falling apart, stand is succeding to spruce/fir.
23	4319 - Mixed Upland Forest	High Density Log	10.3	81	81-110	SCA=>Potential Old Growth. Stand is currently listed as Potential Old Growth. Recommend removal. Stand has a heavy fir understory. Aspen is 6-12 inches, averaging about 5 sticks. Balm is the same. White spruce 6-14 inches and 3-5 sticks, balsam 6-10 inches and 3-4 sticks.
24	4319 - Mixed Upland Forest	High Density Pole	20.8	83	81-110	Stand is currently listed as Potential Old Growth (POG). Stand is a knob of high ground that is surrounded by lowland on all sides. Difficult access for logging. Stand isn't really unique. It's decadent white birch with spruce and fir coming up in the understory and mid-canopy. Within 20 years, this will be a pure spruce-fir stand.
25	4134 - Aspen, Spruce/Fir	High Density Sapling	34.2	17		Was commercially cut in 1993 by Charlie Dillon, permit #4-93, "Wild West Road" sale. Spruce were not cut in this stand. Also, all oak, cherry, and cedar were left uncut.
26	4134 - Aspen, Spruce/Fir	High Density Sapling	26.5	16		The spruce and fir in this stand are predominantly in patches with some occurring in the undertory. There are a few sparse areas as well on the southwest edge. Original stand was harvested in the fall of 1993 by Charlie Dillion, permit #4-93. All red and white pine were left as well as spurce less than 4-sticks tall.
27	6122 - Black Spruce	High Density Pole	29.1	75	81-110	There is evidence within the stand of past cutting. An old winter road is present as are some stumps. Cedar is lacking in this stand when compared to the surrounding two stands, it is only scattered here. Portions of this stand have a lower density which could be the result of an old budworm outbreak or past harvesting. There is an area of semi-upland in the southern portion of this stand.
28	6120 - Lowland Cedar	Medium Density Pole	17.9	98	51-80	Stand is predominantly cedar, especially in the north. As you venture south it becomes more mixed.
30	6120 - Lowland Cedar	High Density Log	25.7	180	171-200	Very large cedar, almost pure. Balsam fir, black spruce, and white birch are present in the stand (birch mainly along the edge). Some aspen and red maple mixed in, in the north.
31	6120 - Lowland Cedar	High Density Log	1.9	100	111-140	This stand is a transition zone between the upland aspen and the lowland brush. Cedar is in good shape, but the balm and aspen are falling apart.

S t	Gwin	n Mgt. Unit		5 – Fo	prested Sta	rinds Compartment: 239 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	429 - Mixed Upland Conifers	High Density Log	4.8	82		Stand is predominantly red pine with some large white pine sawlog trees scattered throughout. There are also a fair amount of red and white pine poles/small sawlogs in the stand as well creating a two age stand. Some white birch and aspen are present as well.
33	4130 - Aspen	Medium Density	7.0	5		Stand harvested in July 2004 by St. John Forest Products, Inc. TS#32-116-03-01, Flat Rock Bridge Sale. There is quite a bit of raspberry in this stand along with some scattered cherry and balsam. Some bare patches exist as well, presumably where white birch was present before. Old inventory had it listed as an A4 stand. There is a small patch of cedar in the middle of the stand as well. It appears that this was part of the lowland conifer stand that is across the old ELF ROW and now is an isolated island.
35	4134 - Aspen, Spruce/Fir	High Density Sapling	14.0	10		Pockets of spruce and balsam. A few red and white pine. Stand had been cut in July of 2004 by St. John Forest Products, Inc. TS#32-116-03-01, Flat Rock Bridge Sale. Oak, cherry, cedar, red and white pine were not to be cut.
37	42290 - Natural Mixed Pine	Low Density Log	3.1	100	51-80	Part of this stand was cut under permit #4-86 by Jim Carey. Only pine with a 20-inch dbh or larger were cut. The stand is now a mix of large red and white pine sawlogs, red and white pine poles, and heavy to black and white spruce in the understory. Red pine are regenerating near the edges along the road, white pine are mixed in the stand as are the spruce.
38	4110 - Sugar Maple Association	High Density Pole	7.9	85	51-80	Medium quality hardwood stand. Aspen is dieing out, some pole aspen present from previous harvest (circa early 1970's).
39	4130 - Aspen	Medium Density	4.7	6		Was commercially cut in July 2004 by St. John Forest Products, Inc, permit #116-03-01, "Flat Rock Bridge Sale". Stand is patchy in nature where white birch had been present. Seed trees that were left are now dead and represent snags and downed debris.
41	4134 - Aspen, Spruce/Fir	High Density Pole	78.2	36	81-110	Stand was commercially cut 1972 thru 1976 by Holli Forest Products under permit #19-70A, "Wild West Block". Spruce and fir density is variable throughout the stand. Some areas are very high others it's sparse.
42	6124 - Lowland Spruce- Fir	High Density Pole	23.9	89	81-110	Stand is a mix of black spruce, aspen, balsam fir and scattered cedar (mainly along stand edge). The stand is a mix of upland and lowland, as lowland plants are only present on a portion of the stand. It rises between 1.5-2 feet above the surrounding lowland types. The extreme northwest corner of this stand is upland.
43	4134 - Aspen, Spruce/Fir	Medium Density	36.8	6		Was commercially cut in July 2004 by St. John Forest Products, Inc, permit #116-03-01, "Flat Rock Bridge Sale". All oak, cherry, cedar, red & white pine as well as 168 birch seed trees marked with green paint in Unit 2 (primarily this stand) were left. Also, 1 & 2 stick spruce were left. The majority of the birch seed trees have died and fallen over. Some snags are still standing. There appears to be some birch regeneration in the southwestern portion of this stand. This is also where most of the seed trees are still living.

S t	Gwin	n Mgt. Unit		5 – Fo	prested Sta	nds Compartment: 239 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Log	4.7	72	1-50	Small stand that is semi open. White birch, balm, scattered cedar, and spruce. A small creek that feeds into the Flat Rock Creek flows through this stand.
45	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	3.2	37	51-80	SCA=>Potential Old Growth. Stand acts as a buffer along the Flat Rock Creek. Portions of this stand were harvested in 1973 by Dave Holli as part of the Wild West Block, permit #19-70A, It was part of a larger stand at the time. It has now been broken out as an SCA-POG along the Flat Rock Creek.
46	4130 - Aspen	High Density Sapling	52.1	22	1-50	Stand was harvested during March-April 1988 by Jim Carey, permit #4-86, a spruce budworm salvage scale sale. Existing conifer regen present during the harvest was left. Note: Spoils from digging a sand trap were dumped in this stand, south of the road where a small opening exists on the western edge of the stand.
48	4140 - Other Upland Deciduous	Medium Density Log	5.3	88	51-80	Small stand that is essentially a hillside between the upland and lowland.
51	42330 - Upland Fir	High Density Pole	13.3	37	51-80	Stand was commercially cut 1972 thru 1976 by Holli Forest Products under permit #19-70A, "Wild West Block".
52	6120 - Lowland Cedar	High Density Pole	43.2	85	111-140	The stand is predominantly a cedar stand. Some patches along the edge have a heavier component of white birch and aspen. This stand appears to be a staging area for deer as they migrate south.
54	6122 - Black Spruce	Medium Density Pole	16.7	80	1-50	Semi-open stand that is black spruce and cedar with balsam and black spruce saplings/seedlings coming in.
55	4134 - Aspen, Spruce/Fir	High Density Pole	21.8	37	81-110	Stand was commercially cut 1972 thru 1976 by Holli Forest Products under permit #19-70A, "Wild West Block".
56	4134 - Aspen, Spruce/Fir	Medium Density Log	4.4	88	51-80	This is a small pocket of overmature aspen, spruce/fir and a patch of white pine.
57	6121 - Tamarack	High Density Pole	4.4	83	81-110	This is a small patch of tamarack on the edge of a swamp where it meets the upland. Tamarack are 6-7 sticks tall with dbh of 8-10 inches.
58	4137 - Aspen, Birch	Medium Density Log	10.7	88	111-140	Stand is primarily on a hillside between the upland and lowland. Lots of red maple and fir seedlings and saplings, especially where the canopy is opened up. Scattered red and white pine exist in this stand.

Gwinn Mgt. Unit

6 – Nonforested Stands

Compartment: 239 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	
3	3205 - Mixed Upland Shrub	1.1	Yes	Low (NonForested)	onForested)	
7	3205 - Mixed Upland Shrub	2.4	Yes	Low (NonForested)		
13	3102 - Grass	1.6	Yes	Low (NonForested)		
14	6229 - Mixed lowland shrub	3.5	No	Unspecified		
16	6229 - Mixed lowland shrub	15.8	No	Unspecified		
18	6229 - Mixed lowland shrub	23.8	No	Unspecified		
20	6229 - Mixed lowland shrub	99.6	No	Unspecified		
21	330 - Low-Density Trees	2.6	No	Unspecified	OI notes indicated that this was an old logging camp site. I checked it out and there is evidence of old building sites here.	
22	3102 - Grass	1.5	Yes	Low (NonForested)		
29	3102 - Grass	8.7	Yes	Low (NonForested)		
34	3205 - Mixed Upland Shrub	2.4	No	Unspecified	Old ELF ROW.	
36	6229 - Mixed lowland shrub	23.4	No	Unspecified	Flat Rock Creek runs through this stand.	
40	3102 - Grass	1.5	No	Unspecified		
47	3102 - Grass	3.1	N\A	Unspecified		
49	3302 - Low Density Conifer Trees	2.8	No	Unspecified		
50	3102 - Grass	6.9	Yes	Low (NonForested)		
53	3102 - Grass	2.6	No	Unspecified		



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	
23	23 SCA Removal 32		10.3	Recommend removal from SCA=>Potential Old Growth. A portion of this stand could be left as a riparian corridor.	
23	SCA Removal	32239023_1	10.3		
24	Unique Site - SCA	32239024	20.8	SCA=>Riparian corridor. Stand is providing connected habitat for wildlife movement.	
20	Unique Site - SCA	NF_32239020	99.6	SCA=>Riparian corridor along Scarffe's Creek.	
36	Unique Site - SCA	NF_32239036	23.4	SCA=>Riparian corridor along the Flat Rock Creek.	
40	Unique Site - SCA	NF_32239040	1.5	SCA=>Riparian corridor along the Flat Rock Creek.	
50	Unique Site - SCA	NF_32239050	6.9	SCA=>Riparian corridor along the Flat Rock Creek.	
53	Unique Site - SCA	NF_32239053	2.6	SCA=>Riparian corridor along the Flat Rock Creek.	



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.

Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area				
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.					