

Revision Date: July 15, 2010

Stand Examiner: Theresa Sysol

Legal Description: T45N R24W Section(s) 28,32 T44N R24W Section(s) 4,9,16,17

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Sawmill Creek Complex

Management Goals: To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreational and environmental needs and concerns.

Soil and Topography: Nearly ³/₄ of compartment is comprised of Carbondale-Tawas and Dawson-Greenwood lowland mucks, with slightly higher grounds mainly AuGres-Deford, Charlevoix, Shoepac-Trenary, Paquin-Finch and Croswell sands and loams.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Some small private landowners in the north and south part of the compartment. Large industrial ownerships in the center of the compartment.

Unique, Natural Features:

Potential for northern goshawk, red-shouldered hawk, spruce grouse, and black-backed woodpecker. Potential for eagle, osprey, and great blue heron rookery. Potential for moose and wolf. Potential for frigga fritillary, freija fritillary, and red-disked alpine in bogs. Potential for wood turtle. Potential for auricled twayblade, veiny meadow rue, western dock, Farwell's water-milfoil, alternate-leaved water-milfoil, and linearleaved gentian along riparian areas. Potential for calypso orchid, rayless mountain ragwort, and ram's head lady's-slipper in conifer swamps.

Archeological, Historical, and Cultural Features: None identified with HAL

Special Management Designations or Considerations: Cyr swamp, one of the larger swamps in Michigan, covers part of this compartment.

Watershed and Fisheries Considerations: Sawmill Creek headwaters area

Wildlife Habitat Considerations: Cyr Swamp Management Area and proposed Biological Stewardship Area (Sawmill Creek BSA). For all SCA, biodiversity maintenance stands-maintain as movement corridors for wildlife species and the protection of riparian areas. Promote biological legacies such as old forest characteristics in the form of snags, coarse woody debris, and intact nutrient cycles. Maintain or increase biodiversity in northern hardwood stands through retention of associate species. In stands scheduled to treat this entry period, maintain conifer cover in transitional zones as well as wildlife movement corridors.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 200 feet. The Cambrian Trempealeau and Munising Formations and the Precambrian Jacobsville Sandstone subcrop below the glacial drift. The Jacobsville has been used as a building stone in the past. There are no gravel pits in the area, and potential appears to be limited. Abandoned iron mines are located one mile to the west, but this compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access: Poor except for the north area along M-35. Access has been available through some of the private lands in the south part of this compartment.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: Some hunting areas in the south mostly controlled by the private land access. Opportunities for non-motorized "communing with nature" abound in this compartment for those people with good waterproof boots and a high-insect tolerance.

Fire Protection: Extremely difficult to access area were there to be a naturally occurring wildfire. Plans should be established to deal with suppression activities in this rather sensitive area.

Additional Compartment Information:

- > 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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Michigan Department of Natural Resources - Operations Inventory System Individual Compartment Report

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 20

Table 3

		(acres show	n in boxe	6)			s		E CLASS									
COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100- 109	110- 119	120- 129	130- 139	140- 149	150- 159	All Aged	Total
Aspen			67							8									75
Black Spruce									4	9	206	7							226
Cedar										134	307					495			936
Grass	4																		4
LowInd Brush	92											16							108
Mx Swmp Cnfr					5				6		95	190			108				404
Non Stocked	8																		8
Spruce Fir								19		20									39
Upland Hdwds																		143	143
White Pine				6						19									25
Total	104		67	6	5			19	10	190	608	213			108	495		143	1968

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ESCANABA RIVER STATE FOREST

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MARQUETTE COUNTY

COMPARTMENT: 20

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	А	S	V	С	G	Н	J	Ι	L	Ρ	Ν	Q	Х	0	В	R	К	Y	F	Е	Т	D	U	М	Z	W	Total
A Aspen	67					8																					75
S Black Spruce		226																									226
C Cedar				936																							936
G Grass					4																						4
L LowInd Brush									108																		108
Q Mx Swmp Cnfr												404															404
X Non Stocked													8														8
F Spruce Fir																			20							19	39
M Upland Hdwds																								143			143
W White Pine																										25	25
Total	67	226		936	4	8			108			404	8						20)				143		44	1968

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ESCANABA RIVER STATE FOREST

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MARQUETTE COUNTY

COMPARTMENT: 20

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

	COMPARTME	NT SUMMARY		
TOTAL \	/OLUME	CUT VO	LUME	
Hardwood	2999 Cds	Hardwood	525 Cds	
Hardwood	218 Mbf	Hardwood	53 Mbf	
Softwood	15087 Cds	Softwood	213 Cds	
Softwood	166 Mbf	Sum CutVol	844 Cds	
Sum TotVol	18854 Cds			
Total Crr	npt Acres	Acres Propose	d For Cut	116
196	8			
100		Acres Meeting	Silv Criteria	662
		Acres Not Mee	ting Silv Criteria	1306

Acres Unable to Determine Silv Criteria For.....

	GWIN	IN FOR	REST	MGT UN	ШТ	Proposed T With Limitir		Compa	rtment: 20	Entry Year: 2012
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
1	F6	14	59	55	WHITE PINE	TWO AGED	SEED TREE	2	NATURAL REGENERATION	
REATMEN	T LIMITI	NG FAC	TORS:		landowner denies eded (resources n	s access ot presently availab	ble)			
Wld	than from Blow likey G st with corm Scan gras	W. pine n 70's cut wdown ti y. Leave and from n Tordon) hers are n rify to end	probab , also F mber an all WP last en) and co ow in p courage	ly next tir //S regener nd WP sna ? and mark try is now puld be re- place. Pos ? natural so	ne. 2010: Large ration all heights a ags throughout. S a few large W. sp incorporated into opened with harve sible MO long ter	WP, WS within - a and sizes - no WP in tand could be treat pruce to leave; leave this stand, which is est. There was a ti- m would be for WI lerplant WP when	few PB noted. P regen noted. Som ed, with access fr e all cherry and n contains some wo mber trespass alon P, but mixed spec	atches of M, e of the JP w om the privation ost PB. Sor lfy JP (G wa ng the east bo ies of A,F/S,	A regeneration (2" vithin stand is dead te to the north (sch ne red maple, tama s treated under FT bundary several ye J, B are acceptable	//dying already. ool forest lands) mos track to cut. A small P W32-227 Sp, 1982
4	F6	5	66	45	WHITE PINE	MATURE	FINAL HARVES	г з	PLANTING	
REATMEN	-			Influence	zones					
. F	1 - 200	.			ate volume due to	•	G(1' (c 11 (. 1 . 1 1	DD ' (1
omnts FmC	pern ROV	nit will b W to leav	e neede ve, as we	ed from M ell as smal	-DOT for tempora ller PB and all WI	as stand 1. 2010: ary road access. So P. Mark a few larg Either negotiate c	ome dead A, cherr e W. spruce to lea	y within. Sn we. Leave ju	nall F3/S3 (20 - 30 ineberry. Possible	hts) along Hwy long term MO of
32	M9	30	0	65	NORTHERN	UNEVENAGE	SELECTION	3		Prescribed fo
	1: 200	0: FDFcu	ıt 1995.	Some are		D nadequate er areas not-rubus.	Shortage of good	l poles but w		FDF treatmen ber. 2010: Same generation gaps still
	d : 2000 com rema anyw inve arou	D: FDFcu ments as ain, with where fro ntory not and M saj	nt 1995. last en little to om 16-2 tes may plings, l	Some are try. Stand o no new M 0' hts and be?) Old but only if	ation technology in the sas good regen oth was cut under t. s A regeneration (or 1-2" dbh average skid roadways has successful new re	D nadequate er areas not-rubus. sale #006-92 "Jack aly 3' hts where not now, which look g ve aspen saplings r egeneration can be	Shortage of good s' Shack Block" in eed) - deer browse good. (* no record nainly (2-3" dbh a established with s	l poles but w n the fall, 199 pressure. E of cut - from and 25' hts). selection cut	93 (units 4,5). Reg arlier cut(s)* result n elm dying out of Stand could use tr - very light markir	ber. 2010: Same generation gaps still ted in maple saplings stand, per old eatment to open up
	d : 2000 com rema anyw inve arou	D: FDFcu ments as ain, with where fro ntory not and M saj	nt 1995. last en little to om 16-2 tes may plings, l	Some are try. Stand o no new M 0' hts and be?) Old but only if	ation technology in the sas good regen oth was cut under t. s A regeneration (or 1-2" dbh average skid roadways has successful new re	D nadequate ter areas not-rubus. sale #006-92 "Jack ily 3' hts where not now, which look g ve aspen saplings r	Shortage of good s' Shack Block" in eed) - deer browse good. (* no record nainly (2-3" dbh a established with s	l poles but w n the fall, 199 pressure. E of cut - from and 25' hts). selection cut	93 (units 4,5). Reg arlier cut(s)* result n elm dying out of Stand could use tr - very light markir	ber. 2010: Same generation gaps still ted in maple saplings stand, per old eatment to open up
comnts Fmc	d : 2000 com rema anyv inve arou and M6	D: FDFcu ments as ain, with where fro ntory not und M sap wildlife t	at 1995. last em little to om 16-2 tes may plings, l trees pr 0	Some are try. Stand o no new M O' hts and be?) Old but only if esent. Sav 58 Inadequa	ation technology in the sas good regen oth I was cut under t. s A regeneration (or 1-2" dbh average skid roadways hav successful new re wlog trees with lan NORTHERN HARDWOOD	D madequate ter areas not-rubus. sale #006-92 "Jack aly 3' hts where not now, which look g ve aspen saplings r egeneration can be rge tops, forked. S UNEVENAGE D low stocking/small	Shortage of good s' Shack Block" in ed) - deer browse good. (* no record nainly (2-3" dbh a established with oils are Shoepac- SELECTION	l poles but w n the fall, 199 pressure. E of cut - fron und 25' hts). selection cut Trenary. 200	93 (units 4,5). Reg arlier cut(s)* result n elm dying out of Stand could use tr - very light markir	ber. 2010: Same generation gaps still ted in maple saplings stand, per old eatment to open up
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"Jacks' Shack Block" (unit 2) - cut Sept, 1993. M regeneration very limited - deer pressure. Aspen regen mainly along old trail roadways. Thin stand lightly and only if adjacent stands are harvested, due to access and merchantability. Mixed hardwood includes basswood, YB. Ground cover of sweet cicely, thistle noted. Soils are Shoepac-Trenary. 2002: stand 43

	GWI	NN FOR	RESTI	MGT UN	IT	Proposed Tr With Limiting		Compa	rtment: 20	Entry Year: 2012
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
402	G0	3	0	53	GRASS	NONSTOCKE D		0	OPENING MAINTENANCE	

TREATMENT LIMITING FACTORS: Inadequate volume due to low stocking/small diameter/etc.

comnts Fmd : Some encroachment of JP, RP, and small WP. A few scattered merchantable trees, mainly JP (ranges from 2 - 5" dbh and 8 - 37' hts). If desire to maintain G opening, cut trees when adjacent stand is harvested. Bracken fern, grass, lichen ground cover noted. 2002: stand 402

Total Acres..... 87

	GWI	NN FOR	RESTI	MGT UN	NIT	•	Treatments iting Factors	Compart	ment: 20	Entry Year: 2012
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
50	Μ6	32	0	58	NORTHERN HARDWOOD	UNEVENAGE D	SHELTERWOOD- SEED	1		

comnts Fmd : 2000: lots of swales. Poor timber quality except 2 acres south end. Hemlock and cedar in spots. 2010: STAND SHOULD BE TREATED WITH COMPARTMENT 19, STAND 1 - 2011 POW. Last examiners comments are accurate - stand is full of swales and vernal areas, which will have to be accessed, in places. Will be difficult to segregate from treatment area, and treatable stand acres will definitely be lower once exclusions are established. There is a nice patch of hardwood at the south end (soils are Escanaba), with some nice cherry stems which will be thinned under marking guidelines. Most A,P should be removed, as it is overmature and dead/dying - some can be left along boundary edges and within any exclusions. Retain components of all species for diversity - either through marking or exclusions. Mark any w. spruce to cut, but remove all BF as it is dead/dying - plenty of regen. Some areas do contain thicker pockets of M regeneration, which should be enhanced, if possible. Access will be through the private corporate lands to the south (which have been thinned within the last year or two), and property lines have already been established - will need permission to cross. Ground cover noted includes: starflower, violets, club moss, princess pine. Winter logging is recommended - in addition, will probably need equalization tube/culvert crossing through center of stand. Soils are Escanaba and Shoepac-Trenary. 2002: stand 34

Total Acres..... 32

		GWI	NN F	ORE	ST N	IGT I	JNIT	Sta	and Level Inf	ormatior	n Comp	artment: 20	Entry	Year: 2012
S t	_	Under			avg.						t Packets Glos ons and code	sary of Terms" do definitions.	ocument lir	nk on web site
a n d	Type- Size Dnsty	Story- Stkng Level	r e s	Age	D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
1	F 6	F 2	14	59	9	90	55	white pine	two aged	Y	seed tree	within 0-9 years	s 2 na	tural regeneration
con		Ro than fror Blo like G st with corn Sca	djace bad n F4, S n W. n 70's wdow y. La tand t n Tor ners a rify t	nt land needed SELEC pine pr s cut, a wn timb eave al from la rdon) ar are now o encou	owner (reso T CU cobabl lso F/ ber an l WP ust ent nd co v in pl urage	r denies urces r T#18-7 ly next /S rege id WP and ma ry is ne uld be lace. P natura	78 -1979. time. 20 neration a snags thr ark a few ow incorp re-openee Possible M l seedbed	10: Large WP, V all heights and si oughout. Stand of large W. spruce porated into this d with harvest. T AO long term wo	WS within - a fe zes - no WP reg could be treated, to leave; leave a stand, which cor Chere was a timb uld be for WP, b nt WP when har	w PB noted en noted. S with acces Il cherry an atains some er trespass but mixed s	I. Patches of I Some of the JP s from the privation of the JP and most PB. S wolfy JP (G v along the east pecies of A,F/	uce and fir etc. po M,A regeneration within stand is do vate to the north (ome red maple, ta vas treated under boundary several S, J, B are accepta long term goals, i	(2" dbh) in ead/dying school for marack to FTP W32- years ago able - stan	nterspersed already. est lands) most cut. A small -227 Sp, 1982 - survey d is variable.
	Wld	:												
3	X 0	X 0	4			0		ther non-stocked non-forest or non productive	nonstocked I-	Ν		not scheduled	0	
com	nnts Fmd	: Chi	cago	and No	orthw	estern	railroad t	rack and ROW						
4	F 6	F 3	5	66	8	70	45	white pine	mature	Y i	final harvest	within 0-9 years	s 3	planting
com		Ina 200 perr RO	fluen adeq 0: str nit w W to	ce zone uate vo rip betv vill be n leave,	es olume ween l needeo as we	due to RR trac d from ell as sr	M-DOT naller PB	A-35. Same as sta for temporary ro and all WP. Ma	ad access. Some ark a few large V	e dead A, cl V. spruce to	herry within. leave. Leave	cut, due to hwy a Small F3/S3 (20 - 9 juneberry. Possi n harvested. 2002	30' hts) al ble long te	long Hwy erm MO of
5	X 0	X 0	4			0	ot	ther non-stocked non-forest or non productive	nonstocked	Ν		not scheduled	0	
com	nnts Fmd	: M-3	35 an	d ROW	V - R(OW cle	aring und	der permit #48-60	6 (for salvage of	timber) con	mpleted 11/19	66.		
6	W 8	M 3 Treatme	6	24	20	60	55	white pine	two aged	N		30-39 years	0	
com		In: CU' 201	adeq T UN 0: Ve	uate vo NDER I ery lim	olume PERM ited a	due to 1IT 29 mount	-85. 2000 of W, H		7. pine left over A t some <2' noted			ome areas mostly YB regeneration (
7	M 6	F 3	5		10	100	57 no	orthern hardwood	l low quality	Ν		10-19 years	0	
com	nnts Fmd	chei	rry w	ithin.	Grou	nd cove	er of club					ulpwood. Occasio aeduled, should m		
8	Q 4	L 2	6	76	6	20	28	mixed swamp conifer	sparse	Ν		not scheduled	0	
com	nnts Fmd											2010: Spruce, tan (<= 1' ht). 2002: s		dar,
9	W 9	F 2	19	83	16	80	50	white pine	two aged	Ν	-	10-19 years	0	
com	nnts Fmd	25' ence	hts. ourag	Pocket ge natu	of 6" ral W	dbh as P regei	spen. No neration a	t a whole lot of v	volume to remov with underplant	e at this timing also. S	he; when cut is ome dead tops	No WP regenerations prescribed, schere to WP. Ground to the stand 5	lule scarif	ication to

		GWIN	IN F	ORE	STN	/IGT	UNIT	Sta	nd Level Inf	ormatio	n Compa	artment: 20	Entry	Year: 2012
	_	Under	A c		avg.						nt Packets Gloss tions and code d		ocument lin	k on web site
	Type- Size Dnsty	Story- Stkng Level	r e s	Age	D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
	Q 5	F 2	5	36	9	50	46	mixed swamp conifer	immature	Ν		10-19 years	0	
nı	nts Fmd	and stand	hard d. G	wood. round	Avera cover	age 4"o of spl	dbh. Son nagnum,	ACK POORLY TO me residual pine. 2 , lab tea noted and 202: stand 6	010: Regenera	tion mainl	y BF - no aspen	. Older A, B wi	thin in dead	d/dying - wet
	S 6	S 1	9	85	7	70		lack spruce-swamp	two aged	Y		10-19 years	0	
			jace	nt lando	owner	denie	s acces small a							
n	nts Fmd	spps com spha	incl plete	udes P ed (sale m, lab t	B, T. #043 tea - 1	Sale # 3-74 18 ower H	#001-71 3 acs) - 6	TTERED HDWD,V (30 acres) - cut S,I cut ~ 7cords BF and ent. Soils are Carb stand 7	F, A, B from 12 d sale closed 1/	/71 - 12/7 16/78. Mi	 Scattered stri xed sizes and ste 	p cuts also preso ocking now. Lo	cribed and a wer ground	never l is more
	Q 4	Q 1	92	131	6	20	27	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	10	
		Treatme	ent Li	miting	Facto	rs:								
					-		d growth							
			aar o o we		IOCK (cutting	restrain	ts						
mı	nts Fmd						n - part o stand 12	of Sawmill Creek C 2,13	Complex. Mixed	d softwood	l includes spruce	e and tamarack.	Soils are	
	Wld							Sawmill Creek Con structure for mamm				llow for natural	processes t	o occur and
	L 0	L 0	18		0	0		lowland brush	old growth (potential or actual)	Ν		not scheduled	10	
m	nts Fmd	: SCA	<u>л</u> = р	otentia	l old	growtł	n - part o	of Sawmill Creek C	Complex. Soils	are Carboi	ndale/Tawas. 20	002: stand 18		
	Wld							Sawmill Creek Con structure for mamm				llow for natural	processes t	o occur and
	C 6	Q 2	495	142	7	110	30	cedar	old growth (potential or actual)	Ν		not scheduled	10	
		То	tenti o we	al or de t	esigna	ated old	d growth restrain							
nı	nts Fmd					-		of Sawmill Creek C	Complex. Soils	are Carboi	ndale/Tawas. 20	002: stand(s) 11,	8,14	
	Wld							Sawmill Creek Con structure for mamm				llow for natural	processes t	o occur and
	L 0	L 0	16	103	0	0	30	lowland brush	old growth (potential or actual)	Ν		not scheduled	10	
mı	nts Fmd	: SCA 9,16		ld grov	vth po	otentia	l - part o	of Sawmill Creek C	Complex. Stand	contains S	Sawmill Creek.	Soils are Carbo	ndale/Tawa	s. 2002: star

;				UNL	51 %		JNIT	Sta	Ind Level Inf	ormatio	n Com	partment: 20	Entry `	1eai. 2012
	_	Under	A c		avg.						t Packets Glo ions and code	ssary of Terms" do definitions.	ocument lin	k on web site
	Type- Size Dnsty	Story- Stkng Level	r e s	Age	D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
7	Q 6	Q 1	4	101	7	70	45	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
		Ce	tentia	al or de or Hemi	signa	ted old	l growth restrain							
omr	nts Fmd	: SCA	= 0	ld grow	vth po	otential	- part o	of Sawmill Creek O	Complex. Soils	are Carbon	dale/Tawas.	2002: stand 17		
	Wld							Sawmill Creek Cor structure for mamn				allow for natural j	processes t	o occur and
8	Q 4	Q 1	12	104	6	20	26	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
		То	dar c o wet	or Hemi	lock d	cutting	restrain							
comr	nts Fmd	: SCA	= 0	ld grow	vth po	otential	- part o	of Sawmill Creek C	Complex. Soils	are Paquin	-Finch /Paqui	n. 2002: stand 15		
	Wld							Sawmill Creek Cor structure for mamn				allow for natural j	processes t	o occur and
					-									
9	Q 4	L 1	78	98	6	20	47	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
9		<u>Treatme</u> Pot Too	<u>nt Lii</u> tentia 5 wet	<u>miting I</u> al or de t	Facto esigna	<u>rs:</u> ited olc	l growth	conifer	(potential or actual)	Y		not scheduled	0	
		Treatme Pot Too Ina : SCA	nt Lii tentia o wet dequ	<u>miting I</u> al or de t uate vo	<u>Facto</u> signa	<u>rs:</u> ited olc due to	l growth	conifer	(potential or actual) er/etc.		Creek. Soils			stand(s)
comr		<u>Treatme</u> Pot Too Ina	nt Lii tentia o wet dequ	<u>miting I</u> al or de t Jate vo Id grow	<u>Facto</u> signa	<u>rs:</u> ited olc due to	l growth	conifer	(potential or actual) er/etc.		Creek. Soils		ord. 2002:	stand(s)
comr	nts Fmd Q 6	Treatme Pot Too Ina : SCA 19,2 Q 1 Treatme Pot Cen	nt Lii tentia dequ . = ol 1,22 16 nt Lii tentia	miting I al or de t uate vo Id grow 131 <u>miting I</u> al or de or Hem	Facto signa lume vth po 6 Facto signa	r <u>s:</u> due to otenital 70 <u>rs:</u> tted old	l growth low sto - part c	conifer cking/small diamet of Sawmill Creek (mixed swamp conifer	(potential or actual) er/etc. Complex, contai old growth (potential or		Creek. Soils	are AuGrres-Defo	ord. 2002:	stand(s)
comr 20	nts Fmd	Treatme Pot Ina : SCA 19,2 Q 1 Treatme Pot Cea Too	$\frac{\text{nt Lin}}{\text{tentia}}$	miting I al or de t uate vo ld grow 131 131 miting I al or de or Hemit	Facto ssigna lume vth po 6 Facto ssigna lock c	rs: due to otenital 70 rs: tted old cutting	l growth low sto - part c 28 l growth restrain	conifer cking/small diamet of Sawmill Creek (mixed swamp conifer	(potential or actual) er/etc. Complex, contai old growth (potential or actual)	ns Sawmill Y		are AuGrres-Defo	ord. 2002:	stand(s)
comr 20	nts Fmd	Treatme Pot Too Ina : SCA 19,2 Q 1 Treatme Pot Cea Too : SCA	$\frac{\text{nt Lin}}{\text{tentia}}$	miting I al or de t uate vo ld grow 131 131 miting I al or de or Hemit	Facto ssigna lume vth po 6 Facto ssigna lock c	rs: due to otenital 70 rs: tted old cutting	l growth low sto - part c 28 l growth restrain	conifer cking/small diamet of Sawmill Creek (mixed swamp conifer	(potential or actual) er/etc. Complex, contai old growth (potential or actual)	ns Sawmill Y		are AuGrres-Defo	ord. 2002: 0	stand(s)
comr 0	Q 6 Q 5	Treatme Pot Toc Ina : SCA 19,2 Q 1 Treatme Pot Cer Toc Pot Cer Toc Cer Toc	$\frac{\text{nt Lin}}{\text{tentia}}$	miting I al or de t jate vo ld grow 131 131 miting I al or de pr Heml t g2 miting I al or de pr Heml t	Facto esigna lume wth po- f f f f f f f f f f f f f f f f f f f	rs: due to otenital 70 rs: otential 40 rs: otential 40	l growth low sto - part o 28 l growth restrain 27 l growth restrain	conifer cking/small diamet of Sawmill Creek (mixed swamp conifer ts of Sawmill Creek (cedar	(potential or actual) er/etc. Complex, contai old growth (potential or actual) Complex. Soils old growth (potential or actual)	ns Sawmill Y are Carbon		are AuGrres-Defonot scheduled	ord. 2002: 0	stand(s)
comr 0	nts Fmd Q 6 nts Fmd C 5	Treatme Pot Toc Ina : SCA 19,2 Q 1 Treatme Pot Cea Toc : SCA Q 2 Treatme Pot Cea Toc Bria : SCA	$\frac{\text{nt Lin}}{\text{tentia}}$ $\frac{\text{nt Lin}}{1,22}$ 16 $\frac{\text{nt Lin}}{1,22}$ 16 $\frac{\text{nt Lin}}{1,22}$ $\frac{1}{1,22}$ $\frac{1}{1,2$	miting I al or de t Jate vo Id grow 131 miting I al or de or Heml t d grow 92 miting I al or de or Heml t heeded d grow	Facto signa lume vth po 6 Facto signa lock c f (port vth po	rs: due to otenital 70 rs: ted old cutting 40 rs: ted old cutting ted old cutting ted old cutting	l growth low sto - part o 28 l growth restrain restrain ridge no - part o	conifer cking/small diamet of Sawmill Creek O mixed swamp conifer ts of Sawmill Creek O cedar	(potential or actual) er/etc. Complex, contai old growth (potential or actual) Complex. Soils old growth (potential or actual) equate) Complex. Old in	ns Sawmill Y are Carbon N	dale/Tawas.	are AuGrres-Defornot scheduled	ord. 2002: 0	

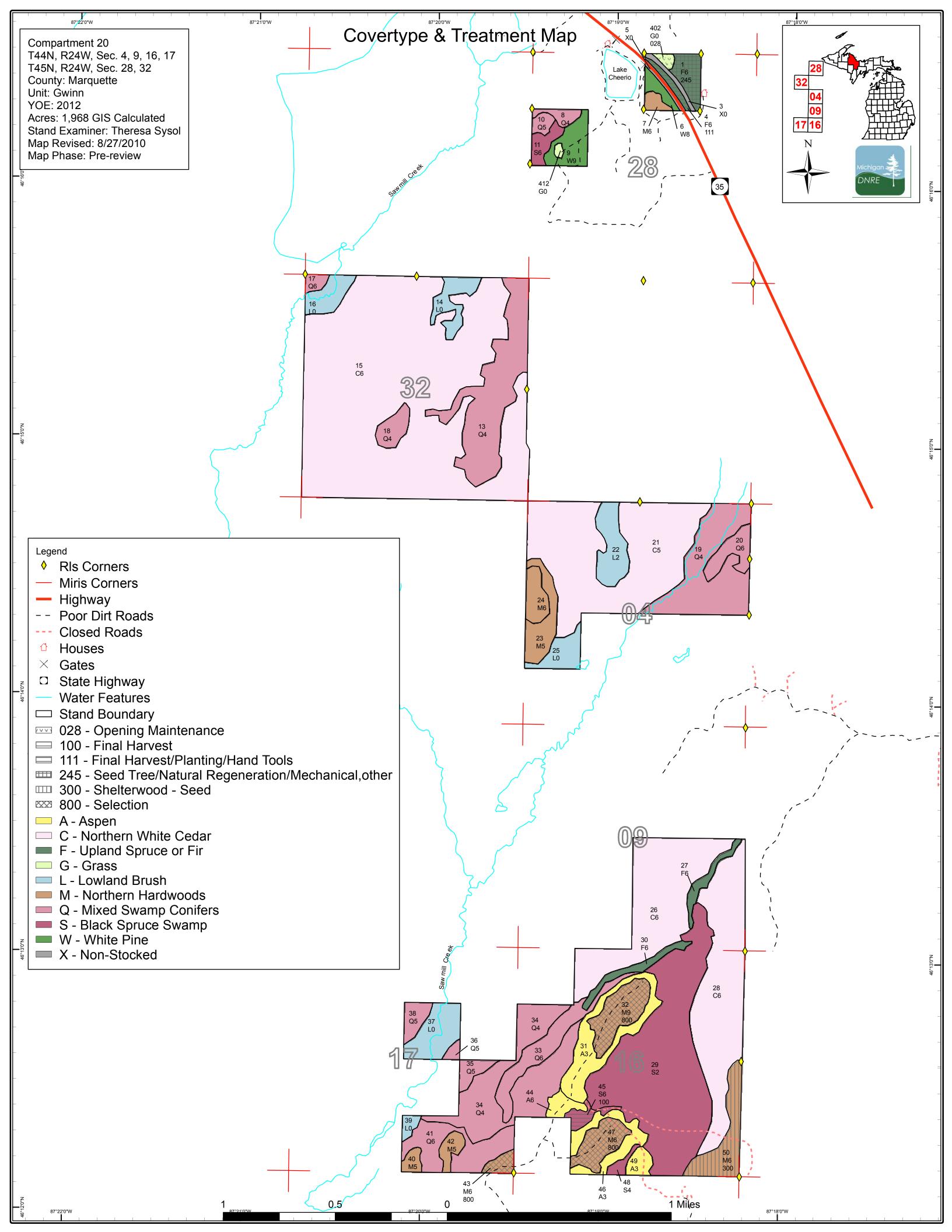
		GWIN	IN F	ORE	STN	/IGT (JNIT	Sta	nd Level Inf	ormatio	n Com	partment: 20	Entry	Year: 2012
S t a	Type-	Under Story-	A c r		avg. D						nt Packets Glo ions and code	ossary of Terms" do e definitions.	ocument lin	k on web site
n d	Size Dnsty	Stkng Level	e s	Age	B H	Tot. BA	Site Indx	Mgt Obj	Condition	Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
23	M 5	F 3	22		9	60	55	northern hardwood	old growth (potential or actual)	Ν		not scheduled	0	
com		Ro Blo Po	dge i ad no ockeo tentia	needed eeded d by oth al or de	d (port (reso ner ph esigna	table br urces r nysical ated old	ot pres obstac I growt			omment: "	mortality of s	p and fir. Med. stor	cked poor	imber quality
24	M 6						and. S	Soils are Croswell-D northern hardwood			<u> </u>	not scheduled	0	1 2
		Ro Blc Po	dge i ad no ockeo tentia	needed eeded d by oth al or de	d (port (reso ner ph esigna	table bi urces r nysical ated olc	ot pres obstac I growt	h						
com	ints Fmd	onto	priv	ate ow	nersh	ip also	. Old	of Sawmill Creek C Comment "MED QU ATTERED". 2002:	UAL HDWD P					
25	L0	L 0	16		0	0		lowland brush	old growth (potential or actual)	Ν		not scheduled	0	
com	nnts Fmd	: SCA	$\mathbf{v} = \mathbf{o}$	ld grov	vth po	otential	- part	of Sawmill Creek C	Complex. Soils	are Carbor	ndale/Tawas.	2002: stand 27		
26	C 6	E 2		89	9	80	18	cedar	old growth (potential or actual)	Ν		not scheduled	0	
		Bri Ina	dar o dge i idequ	or Hem needec uate vo	lock o d (port lume	cutting table bi due to	ridge n Iow ste	ot available or inade ocking/small diamete	er/etc.					
com	nnts Fmd	ceda	r, wi					of Sawmill Creek C Slight ridges separat						
27	F 6	F 3	9	87	8	70	62	spruce-fir (uplands- including upland black spruce)	two aged	Y		not scheduled	0	
		Ro Infl	dge i ad n uenc	needec eeded ce zone	d (port (reso es	table bi urces r	ot pres	ot available or inade sently available) on purposes (ie. shei						
com	nnts Fmd	: 2000 dead): Es /dyii	ker. Tu ng out	irns to of sta	o F NE ind, and	. Narro d being	ow 1 1/2 chains wide greplaced by F/S. N lex. 2002: stand 29	e with steep sid No need to treat					
28	C 6		134	85	7	70	26	cedar	immature	Ν		not scheduled	0	
		Ro To	dar o ad n o we	or Hem eeded	lock o (reso	cutting urces r	ot pres	sently available)						
							nuucq	Jale						

Cover Under c ype-Size Sikry arg. For further descriptions and code definitions. Size Sikry a g B Tot. Site Silv. Cinteria Method Tot. Harvest Cultural Need 9 S 2 T 2 206 89 3 18 black spruce-swamp immature Y not scheduled 0 Tratament Limiting Factors: Inadequate volume due to low stocking/small diameter/etc. control 2-32 hts). Ground cover noted: lab tea, iris, sedge. Soils are Creenwood-Dawn. 2002: stand 35 0 F 6 F 3 11 87 8 0 62 spruce-fit (uplands- two aged Y not scheduled 0 Indequate volume due to low stocking/small diameter/etc. Road needed (resources not presently available) Indequate volume due to low stocking/small diameter/etc. Road needed (resources not presently available) Indequate volume due to low stocking/small diameter/etc. Road needed (resources not presently available) Indequate volume due to low stocking/small diameter/etc. Road needed (resources not presently available) Index maturality repre			GWIN	IN F	ORE	ST	/IGT (UNIT	Star	nd Level Inf	ormatio	n Comp	partment: 20	Entry	Year: 2012	
Size String e Age H Tot. Site Mgt Condition Method Timet Harvest Column 9 52 7 2 206 89 3 0 18 black spruce-swamp immature V not scheduled 0 Transformed Limiting Factors: Index volume due to low stocking/small diameter/dic. omms imitial families/spruce 0 science science 0 science science 0 science science 0 science science<	S t					-					ner descript			ocument lin	k on web site	
Treatment Limiting Factors: Indedequate volume due to low stocking/small diameter/etc. omns Find : Igner treed bog with primarily spruce and tamarack (2-4" dbh and 26-32" hts). Ground cover noted: lab tea, iris, sedge. Soils are Greenwood-Dawson. 2002: stand 36 0 F 6 F 3 11 87 8 70 62 spruce-fir (uplands-including upland) black spruce) Too aged Y not scheduled 0 Treatment Limiting Factors: Read needed (resources not presently available) Inadequate volume due to low stocking/small diameter/stic. Readeniesquate volume due to low stocking/small diameter/stic. Readenies wet soils to martive (and steep) rigle. Some large wPR.PP within which may seed in naturally: cedar also noted. 2002: stand 40 1 A 3 F 1 39 14 2 0 62 sprue with with intege willow (4) this and tris def of 00-92. Tacks: Shack Bloc (unit 3, 6). Aspen (including P) is now 24 - 30' hts. Some maple, cherry, willow (4) this and F 2' 000' mostly well-stocked A 31" dbh. Some sprare areas with fit seeding in, cut 1995. 2010: Fast of aset 9006-92. Tacks: Shack Bloc (unit 3, 6). Aspen (including P) is now 24 - 30' hts. Sonta large of good poles but well stocked sawtimber. 2010: Stand 40 Treatment Limiting Factors: Regeneration technology inadequate <	a n d	Size	Stkng	-	Age	В				Condition	Criteria					
Image treed begins with primarily sprice and namarack (2-4" dbh and 26-32' hts). Ground cover noted: lab ten, iris, sedge. Soils are Serveroid Lawson. 2002: stand 36 0 F6 F3 11 87 8 70 62 spruce-fit (uplands-toward Lawson and black spruce) You and scheduled 0 Interament Limiting Factors: Read meeting factors:<	9	S 2	T 2	206	89	3	0	18 b	lack spruce-swamp	immature	Y		not schedulec	0		
Greenwood-Dawson. 2002: stand 36 0 F 6 F 3 11 87 8 70 62 spruce-fir (upland) black spruce) Treatment Limiting Factors: Road needed (resources not presently available) Inadequate volume due to low stocking/small diameter/atc. Retention of stand for regeneration purposes (ie. shelterwood) Omms Find : 2000: Esker. Steep sides down to bog in spots. Will hold to next time due to small volume and large road work, private land etc. 2010: Bilowdown everywhere, minity aparen and fr - understory coming in thick with F/S (4 - 12 hts). Some large aspen (10-12" dbh averag remains, but it is dying fast - birch is dying also; not enough volume anymore to make harvesting fassible. Would need new road acce accross wet soils to narrow (and steep) ridge. Some large WP.PR within which may seed in naturally; cdeff as how road accore accors swet soils to narrow (and steep) ridge. Some large WP.PR within which may seed in naturally; cdeff as how road accore accors swet soils to narrow (and steep) ridge. Some large WP.PR within which may seed in naturally; cdeff as how road accore accors swet soils to narrow (and steep) ridge. Some large WP.PR within which may seed in naturally; cdeff as how road accore accors swet soils to narrow (and steep) ridge. Some large WP.PR within which may seed in naturally; cdeff as how road accore accors swet soils to narrow (and steep) ridge. Some large work with reservice in a stand 500 (unit 3.6, - 15' hts) in understory. Wetter are contain patchy appen regeneration with more willow, thistle present. Residual maple left in stand. 2002; stand 43 2 M 9 M 2 30 12 100 65 northern hard								low sto	cking/small diamete	r/etc.						
Including upland black spruce) Treatment Limiting Factors: Road needed (resources not present) available) Inadequate volume due to low stocking/small diameter/etc. Retention of stand for regeneration purposes (ie. shelterwood) ommts Fmd : 2000: Esker. Steep sides down to bog in spots. Will hold to next time due to small volume and large road work.private land etc. 2010: Biovdown everywhere, mainly agen and fir - understory coming in thick with F/S (4 - 12° hts). Some large aspen (10-12° dbh average remains, but it is dying fast - birch is dying also; not enough volume anymore to make harvesting feasible. Would need new road acce aeross wet solis to narrow (and steep) ridge. Some large W.P.RP within which may seed in naturally: codar also noted. 2002: stand 31 A 3 F 1 39 14 2 0 62 aspen (upland) immature	om	nts Fmd	0		U		•	• •		4" dbh and 26	-32' hts). C	Ground cover r	noted: lab tea, iris	sedge. So	ils are	
Road needed (resources not presently available) Inadequate volume due to low stocking/small diameter/etc. Retention of stand for regeneration purposes (i.e. shellerwood) annuts Find : 2000: Esker. Steep sides down to bog in spots. Will hold to next time due to small volume and large road work private land etc. 2010; Blowdown everywhere, mainly agen and fir - understory coming in thick with F/S (4 - 12 hts). Some large spen (10-12' dhb averag remains, but it is dying fast - birch is dying also; not enough volume anymore to make harvesting feasible. Would need new road acce across wet soils to narrow (and steep) ridge. Some large WP,RP within which may seed in naturally; cedar also noted. 2002: stand 40 1 A 3 F 1 39 14 2 0 62 aspen (upland) immature N 40-49 years 0 ommts Find : 2000: inostly well-stocked A3 1" dbb. Some sparse areas with fir seeding in. cut 1995. 2010: Part of sale # 006-92; "Jacks' Shack Bloc (unit 3.6). Aspen (including P) is now 24 - 30' hts. Some maple, cherry, willow (4' hts) and T/S (6 - 15' hts) in understory. Wetter are contain patchy uspen regeneration with more willow, thistle present. Residual maple left in stand. 2002; stand 35 2 M 9 M 2 30 12 100 65 northern hardwood unevenaged N selection within 0-9 years 3 ommts Find : 2000: EDFcut 1995. Some areas good regen other areas not-trubus. Shortage of good poles but well stocked sawtimber. 2010: Same conter N selection within 6-9	0	F 6	F 3	11	87	8	70	62 క	including upland	two aged	Y		not scheduled	0		
Inadequate volume due to low stocking/small diameter/etc. Retention of stand for regeneration purposes (iie. shelterwood) omnts Find : 2000: Esker. Skeep sides down to bog in spots. Will hold to next time due to small volume and large road work, private land etc. 2010: Blowdown everywhere, mainly aspen and fir - understory coming in thick with F/S (4 - 12) ths). Some large aspen (10-12" dbh average arross wet soils to narrow (and steep) ridge. Some large WP.RP within which may seed in naturally; cedar also noted. 2002: stand 40 1 A 3 F 1 39 14 2 0 62 aspen (upland) immature N 40-49 years 0 omnts Find : 2000: mostly well-stocked A3 1" dbh. Some sparse areas with fir seeding in. cut 1995. 2010: Part of sale # 006-92, "Jacks' Shack Blov (unit 3,6). Aspen (including P) is now 24 - 30 hts. Some maple, cherry, willow (4 hits) and T/S (6 - 15 hits) in understory. Wetter are contain pathy aspen regeneration with more willow, thistle present. Residual maple 1eft in stand. 2002; stand 35 2 M 9 M 2 30 12 100 65 northern hardwood unevenaged N selection within 0-9 years 3 Treatment Limiting Factors: Regeneration technology inadequate omnts Find : 2000: FDFcut 1995. Some areas good regen other areas not-rubus. Shortage of good poles but well stocked sawtimber. 2010: Same commetian su last entry. Stand was cut under t. sale #006-92 "lacks' Bhack Block" in the fall, 1993 (units 4,5). Regeneration gaps still remain, with liftle to on ow M regeneration (only 3' his where noted). deer horwas pressure cutpet in adple saping anywhere from 16-20 hts and 1-2" dbh average now, which look good. (* no record of cut - from elm dying out of stand, per old inventory notes maybe?) Old skid roadways have aspen sapings mainly (2.3" dbh and 2.5" hts). Stand could use treatment to open up around M sapings, but only if successful are vergeneration can be established with selection cut - very light marking. Quite a few sna and wildlife trees present. Savlag trees with large tops, forked. Soils are Shoepac-Trenary. 2002: stand 32					-											
 commts Find : 2000: Esker. Steep sides down to bog in spots. Will hold to next time due to small volume and large road work.private land etc. 2010: Blowdown everywhere, mainly aspen and fir - understory coming in thick with F/S (4 - 12' hts). Some large aspen (10-12'' dbh average across wet soils to narrow (and steep) ridge. Some large WP,RP within which may seed in naturally; cedar also noted. 2002: stand 40 1 A 3 F 1 39 14 2 0 62 aspen (upland) immature N 40-49 years 0 contain pitch yapen regeneration with more willow, thistle present. Residual maple left in stand. 2002: stand 40 contain pitch yapen regeneration with more willow, thistle present. Residual maple left in stand. 2002: stand 35 2 M 9 M 2 30 12 100 65 northern hardwood unevenaged N selection within 0-9 years 3 Treatment Limiting Factors: Regeneration tonly 3'hts where noted) - deer browse pressure. Earlier cut(5') resulted in maple saping anywhere from 16-20' hts and 1-2" dbh average now, which look good, (* no record of cut - from elm dying out of stand, per old inventory in only 3'hts where noted) - deer browse pressure. Earlier cut(5') resulted in maple saping anywhere from 16-20' hts and 1-2" dbh average now, which look good, (* no record of cut - from elm dying out of stand, per old inventory into say be?) Old skid roadways have aspen sapings mainly (2-3" dbh and 25' hts). Stand could use treatment contain patch years: Save generation can be established with selection cut - very light marking. Quite a few sna and wildlife trees present. Savidg trees with large tops, forted. Soils are Shoepac-Trenary. 2002: stand 32 3 Q 6 F 2 33 107 8 70 39 mixed swamp old growth (potential or actual) if successful new regeneration can be established with selection cut - very light marking. Quite a few sna and wildlife trees present. Savidg trees wavep immature Y not scheduled 0 confer confer confer confer confer or Hemolock cuting restraints Too wet Inadequate volume du			Ina	adequ	uate vo	olume	due to	low sto	cking/small diamete							
1 A3 F1 39 14 2 0 62 aspen (upland) immature N 40-49 years 0 omnts Fmd 2000: mostly well-stocked A3 1" dbh. Some sparse areas with fir seeding in. cut 1995. 2010: Part of sale # 006-92, "Jacks' Shack Bloc (unit 3,6). Aspen (including P) is now 24 - 30" hts. Some maple, cherry, willow (4" hts) and T/S (6 - 15" hts) in understory. Wetter are contain patchy aspen regeneration with more willow, thistle present. Residual maple left in stand. 2002: stand 35 2 M 9 M 2 0 12 100 65 northern hardwood unevenaged N selection within 0-9 years 3 Treatment Limiting Factors: Regeneration technology inadequate Regeneration (only 3" hts where note) - deer browse pressure. Eartier cut(s)* resulted in maple saphing anywhere from 16-20" hts and 1-2" dbh average now, which look good. (* no record of cut - from elm dying out of stand, per old inventory notes maybe?) Ol stat oradways have aspen saphings mainly (2-3" dbh and 25" hts). Stand could use treatment to open up around M saphings, but only if successful new regeneration can be established with selection cut - very light marking. Quite a few snag and wildlife trees present. Sawlog trees with large tops, forked. Soils are Shoepac-Trenary. 2002: stand 32 3 Q 6 F 2 33 107 8 70 9 mixed swamp conffer conffer <td col<="" td=""><td>om</td><td>nts Fmd</td><td>Blov rem</td><td>wdov ains,</td><td>vn ever but it i</td><td>rywhe is dyi</td><td>ere, ma ng fast</td><td>inly asp - birch</td><td>en and fir - understo is dying also; not er</td><td>ory coming in lough volume</td><td>thick with anymore to</td><td>F/S (4 - 12' hts make harvest</td><td>s). Some large asp ting feasible. Wor</td><td>pen (10-12 ild need ne</td><td>" dbh average) w road access</td></td>	<td>om</td> <td>nts Fmd</td> <td>Blov rem</td> <td>wdov ains,</td> <td>vn ever but it i</td> <td>rywhe is dyi</td> <td>ere, ma ng fast</td> <td>inly asp - birch</td> <td>en and fir - understo is dying also; not er</td> <td>ory coming in lough volume</td> <td>thick with anymore to</td> <td>F/S (4 - 12' hts make harvest</td> <td>s). Some large asp ting feasible. Wor</td> <td>pen (10-12 ild need ne</td> <td>" dbh average) w road access</td>	om	nts Fmd	Blov rem	wdov ains,	vn ever but it i	rywhe is dyi	ere, ma ng fast	inly asp - birch	en and fir - understo is dying also; not er	ory coming in lough volume	thick with anymore to	F/S (4 - 12' hts make harvest	s). Some large asp ting feasible. Wor	pen (10-12 ild need ne	" dbh average) w road access
 (unit 3,6). Åspen (including P) is now 24 - 30° hts. Some maple, cherry, willow (4' hts) and T/S (6 - 15' hts) in understory. Wetter are contain patchy aspen regeneration with more willow, thistle present. Residual maple left in stand. 2002: stand 35 2 M9 M 2 30 12 100 65 northern hardwood unevenaged N selection within 0-9 years 3 Treatment Limiting Factors: Regeneration technology indequate commts Fmd : 2000: FDFcut 1995. Some areas good regen other areas not-rubus. Shortage of good poles but well stocked sawtimber. 2010: Same comments as last entry. Stand was cut under t. sale #006-92 "Jacks' Shack Block" in the fall, 1993 (units 4,5). Regeneration gaps still remain, with little to no new M regeneration (only 3') this where noted) - deer browse pressure. Earlier cut(s)* resulted in maple sapling anywhere from 16-20' hts and 1-2" dbh average now, which look good. (* no record of cut - from elm dying out of stand, per old inventory notes maybe?) Old skid roadways have aspen saplings mainify (2-3" dbh and 25' hts). Stand could use treatment to open up around M saplings, but only if successful new regeneration can be established with selection cut - very light marking. Quite a few snag and wildlife trees present. Sawlog trees with large tops, forked. Soils are Shoepac-Trenary. 2002: stand 32 3 Q 6 F 2 33 107 8 70 39 mixed swamp immature Y not scheduled 0 confer Treatment Limiting Factors: Cedar or Hernlock cutting restraints Too wet Inadequate volume due to low stocking/small diameter/etc. commts Fmd : Subtle ridge. Soils are AuGres-Deford. 2002: stand 41 4 Q 4 Q 1 95 90 6 30 27 mixed swamp old growth Y not scheduled 0 confer Creater or Hernlock cutting restraints Too wet Potential or designated old growth configure actual) Treatment Limiting Factors: Cedar	1	A 3								-		5				
<pre>comments as last entry. Stand was cut under t. sale #006-92 "Jacks' Shack Block" in the fall, 1993 (units 4,5). Regeneration gaps still remain, with little to no new M regeneration (only 3' hts where noted) - deer browse pressure. Earlier cut(s)* resulted in maple sapling anywhere from 16-20' hts and 1-2" dbh average now, which look good. (* no record of cut - from elm dying out of stand, per old inventory notes maybe?) Old skid roadways have aspen saplings mainly (2-3" dbh and 25' hts). Stand could use treatment to open up around M saplings, but only if successful new regeneration can be established with selection cut - very light marking. Quite a few snap and wildlife trees present. Sawlog trees with large tops, forked. Soils are Shoepac-Trenary. 2002: stand 32 3 Q 6 F 2 33 107 8 70 39 mixed swamp immature Y not scheduled 0 Treatment Limiting Factors: Cedar or Hemlock cutting restraints Too wet Inadequate volume due to low stocking/small diameter/etc. commts Fmd : Subtle ridge. Soils are AuGres-Deford. 2002: stand 41 4 Q 4 Q 1 95 90 6 30 27 mixed swamp old growth Y not scheduled 0 Treatment Limiting Factors: Cedar or Hemlock cutting restraints Too wet Confer Co</pre>										Ũ						
3 Q 6 F 2 33 107 8 70 39 mixed swamp conifer immature Y not scheduled 0 Treatment Limiting Factors: Cedar or Hemlock cutting restraints Too wet Inadequate volume due to low stocking/small diameter/etc. commts Fmd : Subtle ridge. Soils are AuGres-Deford. 2002: stand 41 4 Q 4 Q 1 95 90 6 30 27 mixed swamp conifer old growth Y not scheduled 0 Treatment Limiting Factors: Cedar or Hemlock cutting restraints Too wet Potential or designated old growth Inadequate volume due to low stocking/small diameter/etc. commts Fmd : SCA = old growth potential - part of Sawmill Creek Complex. Old comments include: "sparse trees with alder", "good balsam and	om	nts Fmd	com rema anyv inve arou	ain, v ain, v where entory and N	ts as la with lit e from y notes A sapli	st ent tle to 16-20 mayl ngs, b	ry. Sta no nev)' hts a be?) O put only	and was w M reg nd 1-2" Ild skid y if succ	cut under t. sale #00 eneration (only 3' ht dbh average now, v roadways have aspe cessful new regenera	06-92 "Jacks' s ts where noted which look goo on saplings main ation can be es	Shack Bloc) - deer bro d. (* no rea inly (2-3" d tablished w	k" in the fall, owse pressure. cord of cut - fr lbh and 25' hts vith selection c	1993 (units 4,5). Earlier cut(s)* re rom elm dying out s). Stand could us cut - very light ma	Regenerati sulted in m of stand, p e treatment	on gaps still haple saplings ber old t to open up	
Treatment Limiting Factors: Cedar or Hemlock cutting restraints Too wet Inadequate volume due to low stocking/small diameter/etc. commts Fmd : Subtle ridge. Soils are AuGres-Deford. 2002: stand 41 4 Q.4 Q.1 95 90 6 30 27 mixed swamp conifer old growth (potential or actual) not scheduled 0 Treatment Limiting Factors: Cedar or Hemlock cutting restraints Too wet Cedar or Hemlock cutting restraints Too wet Potential or designated old growth Inadequate volume due to low stocking/small diameter/etc. Not scheduled 0 SCA = old growth potential - part of Sawmill Creek Complex. Old comments include: "sparse trees with alder", "good balsam and	3	Q 6				-		-	mixed swamp		-			0		
4 Q 4 Q 1 95 90 6 30 27 mixed swamp old growth Y not scheduled 0 Conifer (potential or actual) <u>Treatment Limiting Factors:</u> Cedar or Hemlock cutting restraints Too wet Potential or designated old growth Inadequate volume due to low stocking/small diameter/etc.			Ce To	edar o o we	or Hem et	lock o	cutting		ts	r/etc.						
conifer (potential or actual) <u>Treatment Limiting Factors:</u> Cedar or Hemlock cutting restraints Too wet Potential or designated old growth Inadequate volume due to low stocking/small diameter/etc. commts Fmd : SCA = old growth potential - part of Sawmill Creek Complex. Old comments include: "sparse trees with alder", "good balsam and					-											
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Too wet Potential or designated old growth Inadequate volume due to low stocking/small diameter/etc. commts Fmd : SCA = old growth potential - part of Sawmill Creek Complex. Old comments include: "sparse trees with alder", "good balsam and																
Inadequate volume due to low stocking/small diameter/etc. commts Fmd : SCA = old growth potential - part of Sawmill Creek Complex. Old comments include: "sparse trees with alder", "good balsam and						IIOCK (cutting	restrain	IS							
comnts Fmd : SCA = old growth potential - part of Sawmill Creek Complex. Old comments include: "sparse trees with alder", "good balsam and						-		-		r/etc.						
	:om	nts Fmd	: SCA	A = 0	ld grov	wth po	otentia	l - part o	of Sawmill Creek Co	omplex. Old c						

		GWIN	IN F	ORE	STN	IGT (JNIT	Star	nd Level Inf	ormatio	n Com	partment: 20	Entry	Year: 2012
6 : a	Cover Type-	Under Story-	A c r		avg. D						nt Packets Glo ions and code	ossary of Terms" do e definitions.	ocument lin	nk on web sit
r d	Size Dnsty	Stkng Level	e s	Age	B H	Tot. BA	Site Indx	Mgt Obj	Condition	Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
5	Q 5	Q 1	8	105	6	60	28	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
:om		Ro Too Po	dar o ad n o we tentia	or Hemi eeded t al or de	lock ((reso signa	urces r	not pre d growi	sently available)	k Complex. So	oils are Au	Gres-Deford.	2002: stand 52		
6	Q 5	Q 1	3	105	6	60	28	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
com		Ce To	tentia dar c o we	al or de or Heml t	esigna lock d	ated old	restrai			arian buffe	er. Soils are	Carbondale-Tawas.	2002: sta	nd 53
7	L 0	X 0	28			0	15	lowland brush	old growth (potential or actual)	Ν		not scheduled	0	
om 8	nts Fmd Q 5							of Sawmill Creek Co TAND". Soils are C mixed swamp conifer				Old Comments: "Lo		BRUSH-
		Ro Too Po	dar o ad n o we tentia	or Hemi eeded (t al or de	lock o (reso esigna	cutting urces r ated old	not pre d growi	sently available) th						
				ld grow	vth po		-	of Sawmill Creek Co	-		ndale-Tawas.			
9	L 0	L 0	4			0	15	lowland brush	old growth (potential or actual)	Ν		not scheduled	0	
om	nts Fmd	: SCA 2002		-	vth po	otential	l, part	of Sawmill Creek Co	mplex. Lowla	nd stand w	ith riparian i	nfluence. Soils are	Carbondal	le-Tawas.
0	M 5	F 2	5		7	60	58	northern hardwood	unevenaged	Ν		not scheduled	0	
om	nts Fmd							ith fir mortality". M -Trenary. 2002: N/A		S,F,H,C,W) with lowlar	nd hardwoods on a	series of su	ubtle ridges
1	Q 6	F 1	42	101	7	80	26	mixed swamp conifer	low quality	Y		not scheduled	0	
com		To Ro	dar o o we ad n	or Hemi t eeded	lock o (reso	cutting urces r	not pre		between ridges'	'. Mixed s	oftwood incl	udes H,W,S,F. Sm	all S/F and	l red maple
		reger	nerat		ted.	Cedar	~40 -5	5' hts. Soils are Taw	as-Deford. 20	02: stand 4				
12 com	M 5 _{nts} Fmd						oods w	northern hardwood ith fir mortality". M -Trenary. 2002: stan		N 5,F,H,C,W) with lowlar	not scheduled nd hardwoods on a	0 series of su	ubtle ridges

		GWIN	IN F	ORE	STN	IGT (JNIT		Stand Level	Informatio	on Com	partment: 20	Entry `	(ear: 2012
S t a	Cover Type-	Under Story-	A c r		avg.					urther descrip	ent Packets Glo otions and code	ssary of Terms" d definitions.	ocument lin	k on web site
n d	Size Dnsty	Stkng Level	e s	Age	D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
3	M 6	M 1	6		9	100	58	northern hardw	ood unevenag	ed N	selection	within 0-9 year	rs 3	
			Ideq		lume	due to		ocking/small dia uate	meter/etc.					
comr	nts Fmd	at the whei May	e san n sal not	ne time e to the be able	e and e sout e to re	will be h is thi genera	e left. nned (ite wel	Manage with st ("Parker End Sa 1. Some large d	and 32 and 47 fo le" #012-08). No	r marketabili ot much M re ality red map	ty and access p egeneration; wl	oil noted in under purposes when cut nat was noted was rell as YB and bas	, or, possib heavily bro	ly negotiate owsed/dead.
4	A 6	F 2	8	87	8	90	57	hemlock	mature	Y		not scheduled	0 b	
		<u>Treatme</u> Re					enerati	on purposes (ie.	shelterwood)					
omr	nts Fmd	even whic	tuall h m	ly conv ay pres	ert if ent oj	aspen perabil	is allo ity iss	wed to die out, ues. There is qu	otherwise could it ite a bit of hemlo	emove A,B, ck here, in p	S/F and some atches, and sor	e red maple too? 2 RM. Will need to ne WP, C, and H ix-Ensley. 2002:	o protect res regeneratio	idual species,
	Wld	: This to He			uns a	good a	imoun	t of hemlock reg	generation. Cons	ider removir	ng this stand fro	om harvest schedu	ile and allo	w it to convert
5	S 6	S 2	7	101	7	70	35	black spruce-sv	amp mature	Y	final harvest	within 0-9 year	rs 2	
omr		Ina	o we Ideqi	t uate vo	lume	due to		ocking/small dia		'S & SAPS-I	OW WFT-CH	IECK NEXT PER	10D" 2010). Wet stand -
John	1.5 1 1110	spha softv	gnui vooc	m, lab t l includ	tea, ir les: C	is grou , F. A	nd co djacer	ver. Some smal t private harves	l PB, RM regen a	and small op 3/T2 ~ 16-20	enings with S r b) hts. Harvest	egeneration (1-3' only if adjacent st	hts) establis	shed. Mixed
6	A 3	L 0	21	15	3	0	60	aspen (uplan	d) immatur	e N		40-49 years	0	
omr	nts Fmd											all, 1993. 2010: y muck. 2002: sta		ks' Shack
7	M 6	M 1	22		10	110	59	northern hardw	ood unevenag	ed N	selection	within 0-9 year	rs 3	
		<u>Treatme</u> Re		miting I eration			nadeq	uate						
comr	nts Fmd	"Jach road	ks' S way:	hack B s. Thin	lock" stan	(unit 2 d lightl	2) - cu ly and	t Sept, 1993. Monly if adjacent	regeneration ve	ry limited - d sted, due to a	leer pressure. A	ood quality stand Aspen regen main chantability. Mix 2: stand 43	ly along old	l trail
8	S 4	S 1	4	70	6	30	30	black spruce-sv	amp sparse	Ν		not scheduled	0 k	
			o we	t			low st	ocking/small dia	meter/etc					
omr	nts Fmd							-	wood. 2002: sta	and 47				
9	A 3	F 1	7	15	2	0	57	aspen (uplan				40-49 years	0	
:omr	nts Fmd			RMIT 4 2002:			umme	r, 1994. Well-st	ocked 1"dbh. Fe	w scattered 1	6" w.pine left	in stand. 2010: a	spen now 2	-3" dbh and

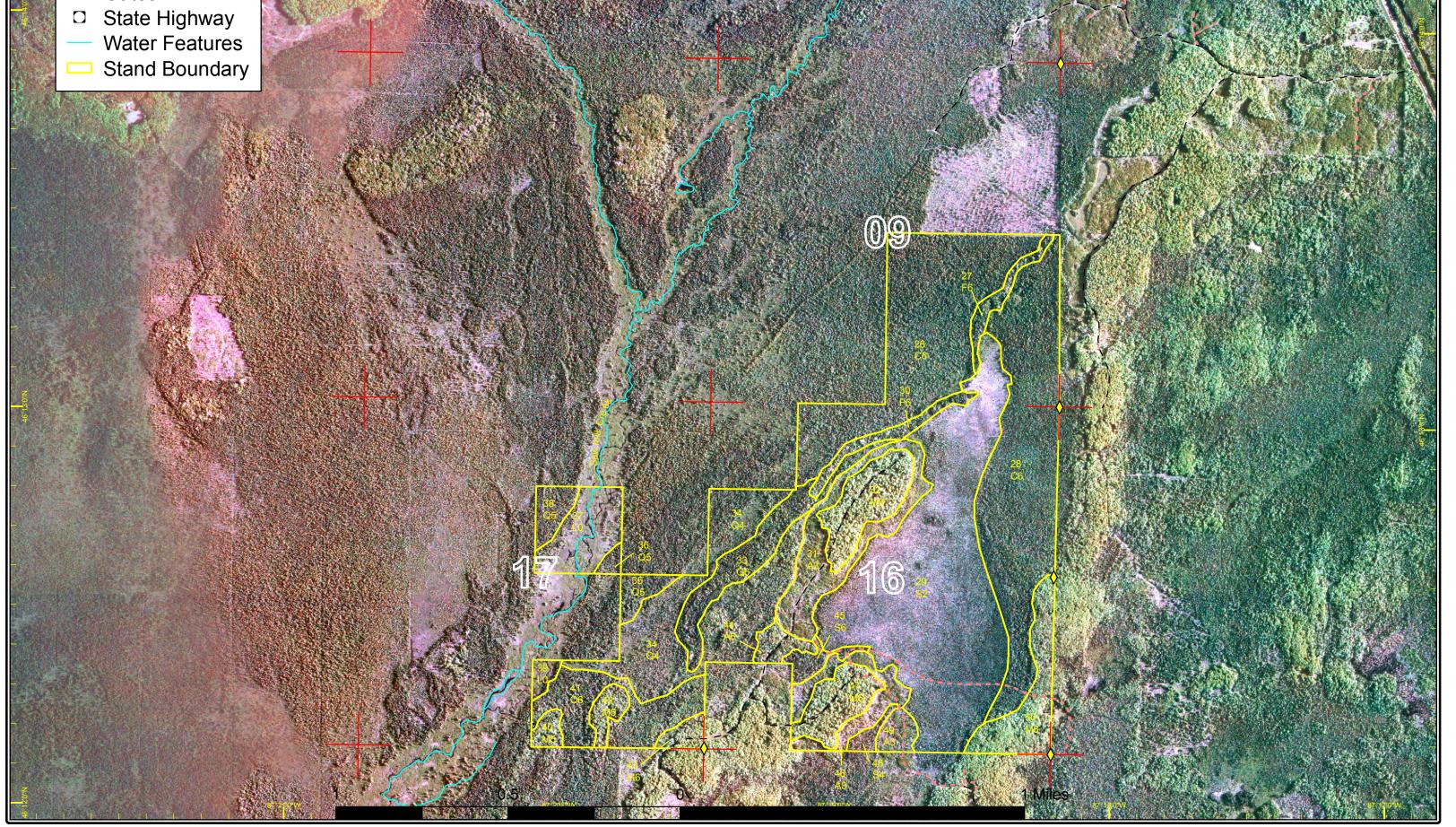
		GWINN FOREST MGT UNIT						Star	Stand Level Information Compartment: 20 Entry Year: 2012					
S t a	Cover Type- Size Dnsty	Under Story- Stkng Level	r	4	avg.					er descrip	ent Packets Gloss ptions and code de		ocument link on web site	
n d				Age	D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
50	M 6	F 2	32		9	110	58	northern hardwood	unevenaged	Ν	shelterwood- seed	within 0-9 years	s 1	
com	comnts Fmd : 2000: lots of swales. Poor timber quality except 2 acres south end. Hemlock and cedar in spots. 2010: STAND SHOULD BE TREATED WITH COMPARTMENT 19, STAND 1 - 2011 POW. Last examiners comments are accurate - stand is full of swales and vernal areas, which will have to be accessed, in places. Will be difficult to segregate from treatment area, and treatable stand acres will definitely be lower once exclusions are established. There is a nice patch of hardwood at the south end (soils are Escanaba), with some nice cherry stems which will be thinned under marking guidelines. Most A,P should be removed, as it is overmature and dead/dying - some can be left along boundary edges and within any exclusions. Retain components of all species for diversity - either through marking or exclusions. Mark any w. spruce to cut, but remove all BF as it is dead/dying - plenty of regen. Some areas do contain thicker pockets of M regeneration, which should be enhanced, if possible. Access will be through the private corporate lands to the south (which have been thinned within the last year or two), and property lines have already been established - will need permission to cross. Ground cover noted includes: starflower, violets, club moss, princess pine. Winter logging is recommended - in addition, will probably need equalization tube/culvert crossing through center of stand. Soils are Escanaba and Shoepac-Trenary. 2002: stand 34													
402	G 0	G 0	3			10	53	grass	nonstocked	Ν		within 0-9 years	s 0	opening maintenance
	<u>Treatment Limiting Factors:</u> Inadequate volume due to low stocking/small diameter/etc.													
com	comnts Fmd : Some encroachment of JP, RP, and small WP. A few scattered merchantable trees, mainly JP (ranges from 2 - 5" dbh and 8 - 37' hts). If desire to maintain G opening, cut trees when adjacent stand is harvested. Bracken fern, grass, lichen ground cover noted. 2002: stand 402													
412	G 0	G 0	1			0	53	grass	nonstocked	Ν		not scheduled	0	
com	comnts Fmd : Small WP, RM clumps - encroaching F/S/M. 2002: stand 403													
Т	Total Acres 1968													



Compartment 20 T44N, R24W, Sec. 4, 9, 16, 17 T45N, R24W, Sec. 28, 32 County: Marquette Unit: Gwinn YOE: 2012 Acres: 1,968 GIS Calculated Stand Examiner: Theresa Sysol Map Revised: 8/27/2010 Map Phase: Pre-review

Legend

- **RIs Corners** \diamond
- Miris Corners
- Highway
- Poor Dirt Roads _ _
- Closed Roads
- Houses 台
- \times Gates



Stand Boundary Map

32

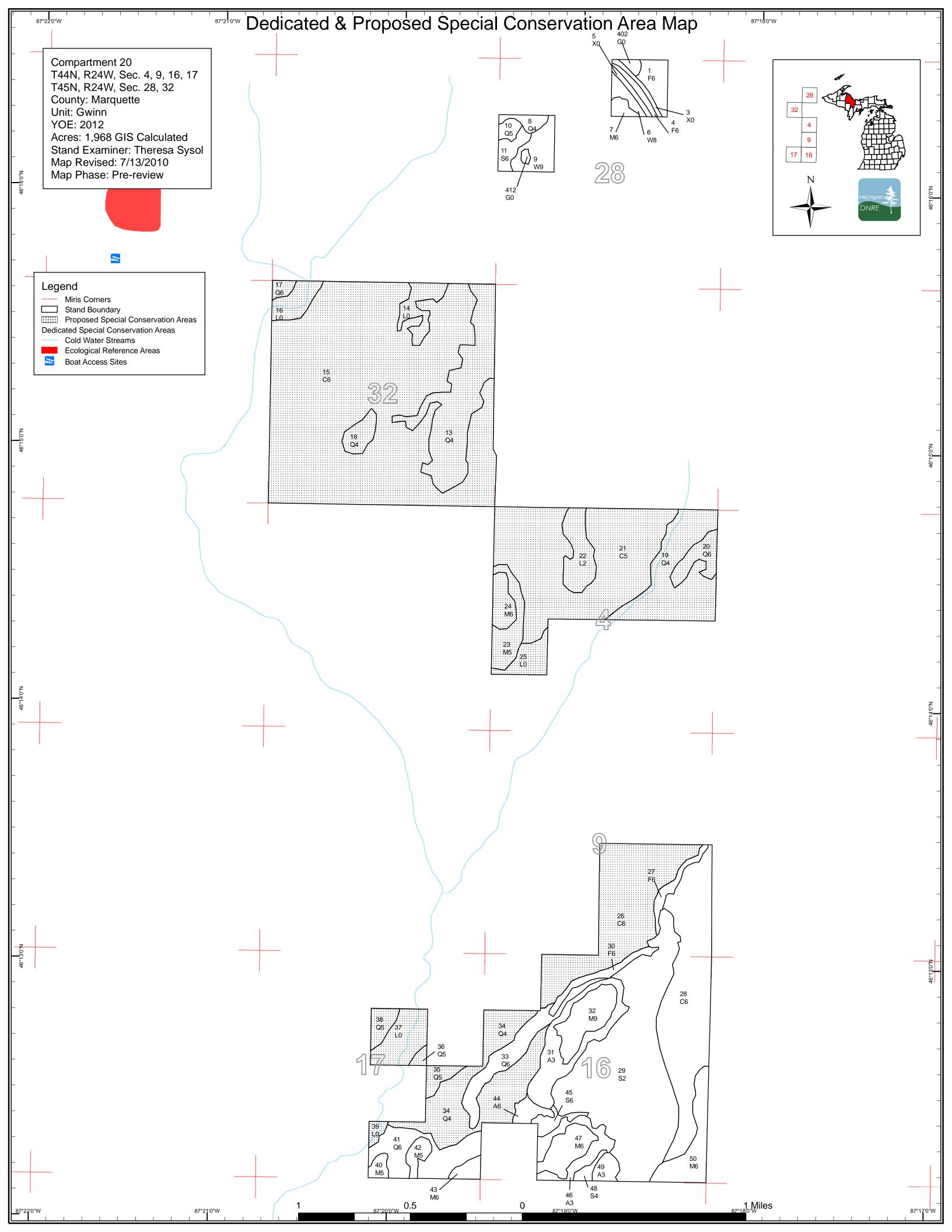
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DNRE



DEDICATED CONSERVATION AREA DETAILS

Gwinn Mgt. Unit Compartment: 020



Page 1 of 1

* 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.

	ervatio Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area					
S	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.						
5	SCA	Potential Old Growth Areas	This category contains stands were identified for a broad range of database as stand condition 8 as potential old growth (POG). A identified through the Operations Inventory (OI)/Compartment Re 2008 and forward, potential old growth is managed for the identifit the Biodiversity Conservation Planning Process (BCPP) and give an ERA, HCVA, or other type of SCA) and is released from the po- released from the potential old growth designation via the Compa	pproximately 310,000 acres have been view process. For stands in Year of Entry ed objective until it is: 1) vetted through n a specific designation and objective (as otential old growth designation; or 2) it is					