

### PIGEON RIVER COUNTRY MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

# COMPARTMENT 45 ENTRY YEAR: 2013

Compartment Acreage: 1685 County: Otsego

**Review Date:** October 6, 2011

Stand Examiner: Rick McDonald

**Legal Description:** T31N - R01W Sections 5, 8 & 17

**RMU (if applicable):** Not Applicable

#### **Management Goals:**

Maintain current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

#### Soil and Topography:

Flat topography with organic soils dominating the lowlands. Quite productive sandy loams are found throughout the uplands.

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

Primarily a contiguous block of state land with some private ownership in the southwest portion of the compartment.

Unique, Natural Features (include only non-site specific and non-sensitive information): None identified.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None identified.

Special Management Designations or Considerations:

None

#### Watershed and Fisheries Considerations:

The main stream of the Black River flows through the entire length of the compartment. Numerous small tributaries generating from the swamp feed into this river.

### Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

### Mineral Resource and Development Concerns and/or Restrictions:

Sections 5, 8 &17 T31N-R01W, Otsego County

Surface sediments consist of coarse textured glacial till (SW) and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. There is approximately 140 feet of local relief within the compartment. Beneath the glacial drift is the Devonian- Antrim Shales. The Antrim is quarried for clay/shale (cement) elsewhere in the State. The nearest gravel pit is two and one-half miles to the southwest, and potential is considered good in the southwest corner. This area is partially leased for oil and gas development until 2001 or as long as production continues. The Antrim Shale development is located along the southwest edge of the compartment. The Niagaran trend produces in the compartment from surface locations to the east and to the west. There is excellent oil and gas potential for known producing formations in this compartment.

# Vehicle Access:

Only the western portion of Section 5 is accessible to vehicles by way of Green's Landing Road.

# **Survey Needs:**

None required.

# **Recreational Facilities and Opportunities:**

No developed recreational facilities or trails exist in this compartment and none are needed.

# **Fire Protection:**

Access is generally good in case of any fire suppression efforts, though the area is generally at low risk to any wildfire potential. Most road systems are closed with berms.

# Additional Compartment Information:

- > The following 5 reports from the Operations Inventory System (OIPC) are attached:
  - Cover Type by Age Class
  - Cover Type by Management Objective
  - ♦ Compartment Volume Summary
  - Proposed Treatments No Limiting Factors
  - Proposed Treatments With Limiting Factors

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

- Base feature information, stand numbers, cover types
- Proposed treatments
- Proposed road access system
- Suggested potential old growth

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

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 45

Table 3

		(	acres show	wn in boxes	;)			:	STAND AG	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				14	104				2	10									130
Grass	15																		15
Jack Pine		8			11														19
LowInd Brush	202																		202
LowInd Poplr					8				84										92
Marsh	16																		16
Mx Swmp Cnfr									71		64		929						1064
Red Pine									20	37	4								61
Spruce Fir									12										12
Swamp Hrdwds											18								18
Upland Hdwds										27	13								40
White Pine				9	4						3								16
Total	233	8		23	127				189	74	102		929						1685

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

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 45

Table 3A

(acres shown	in	boxes)
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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	Ζ	W	Total
A Aspen	130																										130
G Grass					1:	5																					15
J Jack Pine							19																				19
L LowInd Brush									202																		202
P LowInd Poplr										92																	92
N Marsh											16																16
Q Mx Swmp Cnfr												1064															1064
R Red Pine																61											61
F Spruce Fir																			12								12
E Swamp Hrdwds																				18	3						18
M Upland Hdwds																								40			40
W White Pine																										16	16
Total	130				1	5	19		202	92	16	1064				61			12	18	3			40		16	1685

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

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 45

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

	COMPARTM	ENT SUMMARY		
TOTAL	/OLUME	CUT VO	LUME	
Hardwood	3042 Cds	Hardwood	277 Cds	
Hardwood	26 Mbf	Softwood	104 Cds	
Softwood	10467 Cds	Softwood	277 Mbf	
Softwood	688 Mbf	Sum CutVol	935 Cds	
Sum TotVol	14931 Cds			
Total Cn	npt Acres	Acres Propose	d For Cut	61
168	5	Acres Meeting	Silv Criteria	1169
		Acres Not Mee	ting Silv Criteria	516

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

PIC	GEON R	IVER C	OUN	FRY MG		Proposed T With Limitin		Compar	ment: 45	Entry Year: 2013
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
28	R9	17	81	55	RED PINE	MATURE	SEED TREE	1		

TREATMENT LIMITING FACTORS: Other Dept./Div. procedures or practices (describe in comment)

comnts Fmd : Mark stand to about 40 sq. ft. Any mix of species will be acceptable when evaluating for successful regeneration.

Total Acres..... 17

PIC	GEON R	RIVER C	COUN	TRY MO	GT UNIT	-	Treatments niting Factors	Compart	ment: 45	Entry Year: 2013
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
4	R9	7	76	60	RED PINE	MATURE	SHELTERWOOD- SEED	1		
comnts Fm	d : Mar	k down t	o 40-50	sq. ft. A	Any combination of	species will be a	acceptable when eval	uating for su	accessful regener	ation.
10	R9	7	81	55	RED PINE	IMMATURE	SHELTERWOOD- SEED	1		
comnts Fm	d: Mar	k down t	o 40-50	sq. ft. A	Any combination of	species will be a	cceptable when eval	uating for su	accessful regener	ation.
13	R9	5	82	60	RED PINE	MATURE	SHELTERWOOD- SEED	1		
comnts Fm		S IS A SI ARS IF D			VET STAND THA	Γ IS JUST REA	CHING MERCHAN	TABLE SIZ	E. COULD CUT	Γ AGAIN IN TEN
15	A6	14	37	60	ASPEN (UPLAND)	IMMATURE	FINAL HARVEST	1		
comnts Fm		•			ld pose a problem v l upon at pre-reviev		I am recommending	g a winter cu	it to limit soil dar	nage by equipment.
25	R9	11	76	60	RED PINE	MATURE	SHELTERWOOD- SEED	1		
comnts Fm							EADY TO CUT AG 7 BE 37 YEARS OL			SIRED TO
Total A	cres	44								

	Com	Under	A									sary of Terms" do	cument linl	k on web site
	Туре-	Story-	c r		avg. D	•			for furth	ier descrip <sup>.</sup> Silv.	tions and code	aefinitions.		
	Size Dnsty	Stkng Level	e S	Age	B H	Tot. BA	Site Indx	Mg <del>t</del> Obj	Condition	Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
	R 8	A 2	2	74	11	40	55	red pine	immature	Ν		40-49 years	0	
		Treatme												
			•					acreage						
om			-			-	-	in 2009 as part of a	larger sale to the					
	M 6	M 1	13	88	9	130	60	northern hardwood	immature	Y		not scheduled	0	
		Treatme												
	End					al value				WEST AN			AENT #40	TOTUE
om	nts Fma	NO		DON				N COMPARTMENT UE TO THE UNIQU						
	W 4	U 0	9	27	5	20	55	white pine	immature	Ν		50-59 years	0	
:om	ints Fmd	: ELM	K HA	VE KI	EPT A	ASPEN	FRO	M REGENERATING	G THIS HARV	EST ARE	A. WHITE PIN	E IS TAKING O	VER IN IT	Γ'S PLACE.
	R 9	W 1	7	76	18	110	60	red pine	mature	N	shelterwood-	within 0-9 years	5 1	
			-				20				seed		-	
	_				10	-		<b>.</b>			<b>.</b>			
om			k dov			-	-	combination of specie	es will be acce		n evaluating fo	-		
	W 4	W 1	4	37	6	40	55	white pine	immature	Ν		40-49 years	0	
	. E.J				гу г			I THOUCH ASDEN						
om	ints FING	: POG	жŲ	UALI	I I , L	JKI S	11E. F	ALTHOUGH ASPEN	DID REGEN	EKAIEII	BELIEVE WH	IE PINE WILL I	JOMINAI	E THIS STI
	J 2	J 2	8	5		0	55	jack pine	immature	Ν		50-59 years	0	
om	ints Fmd	: A m	ix dii	10 1000	roduc	tion w	ill be a	cceptable.						
			r	le lepi	ouue									
	W 9	J 1	3	88	11	70	60	white pine	immature	Ν		40-49 years	0	
			3	88	11	-		white pine	immature	Ν		40-49 years	0	
	W 9 nnts Fmd		3	88	11	-		white pine	immature	Ν		40-49 years	0	
com			3	88	11	-			immature	N		40-49 years	0	
com	nnts Fmd J 5	: Star W 1	3 id wa 1	88 s thinr 37	11 ned in 7	2005. 60		white pine jack pine						
com	nnts Fmd J 5	: Stan W 1 Treatme	3 Id wa 1 ent Lir	88 s thinr 37 niting	11 ned in 7 Facto	2005. 60 <u>prs:</u>	45							
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com	unts Fmd J 5	: Stan W 1 <u>Treatme</u> De : MA	3 1 1 ent Lir elayec	88 s thinr 37 niting I treatr E ALC	11 ned in 7 Facto ment f	60 60 for age WITH	45 e/size c	jack pine lass diversity ADJACENT ASPEN	immature	N	OST LIKELY M	10-19 years	0	
com	J 5 J 5	: Stan W 1 <u>Treatme</u> De : MA REC	3 1 1 ent Lir elayec NAG GENE	88 s thinr 37 miting I treatr E ALC ERATE	11 ned in 7 Facto ment f	60 ors: for age WITH	45 size c THE A ND W	jack pine lass diversity ADJACENT ASPEN 'HEN CUT.	immature STAND #11.	N WILL MO	OST LIKELY N	10-19 years NEED TO ARTIF	0 ICIALLY	
	J 5 J 5	: Stan W 1 <u>Treatme</u> De : MA REC	3 1 1 ent Lir elayec NAG GENE	88 s thinr 37 miting I treatr E ALC ERATE	11 ned in 7 Facto ment f	60 ors: for age WITH	45 size c THE A ND W	jack pine lass diversity ADJACENT ASPEN 'HEN CUT.	immature STAND #11.	N WILL MO	OST LIKELY M	10-19 years NEED TO ARTIF	0 ICIALLY	
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:om	J 5 J 5 Innts Fmd	: Star W 1 <u>Treatme</u> De : MA <u>REC</u> A 3	3 1 1 nt Lin NAG <u>GENE</u> 4	88 s thinr 37 <u>miting</u> I treatr E ALC ERATE 26	11 red in 7 Facto ment f ONG E THI	60 ors: for age WITH IS STA 0	45 //size c THE / ND W 60	jack pine lass diversity ADJACENT ASPEN /HEN CUT. aspen (upland)	immature STAND #11. immature	N WILL MO N		10-19 years NEED TO ARTIF 30-39 years	0 ICIALLY 0	
oom	unts Fmd	: Star W 1 <u>Treatme</u> De : MA <u>REC</u> A 3	3 1 1 nt Lir layec NAG <u>BENE</u> 4 7	88 s thinr 37 <u>niting</u> I treatr E ALC ERATE 26 81	11 7 Facto ment f DNG 3 THI	a 2005. 60 ors: for age WITH (S STA 0 120	45 Size c THE J ND W 60 55	jack pine lass diversity ADJACENT ASPEN /HEN CUT. aspen (upland) red pine	immature STAND #11. immature immature	N WILL MO N	shelterwood- seed	10-19 years NEED TO ARTIF 30-39 years within 0-9 years	0 ICIALLY 0 5 1	
om om	nnts Fmd J 5 nnts Fmd A 3 R 9 nnts Fmd	: Star W 1 <u>Treatme</u> De : MA REC A 3 W 1 : Mar	3 d wa 1 ent Lir ent Lir layec NAG BENE 4 7 k dov	88 s thinr 37 niting I treatr E ALC ERATE 26 81 81	11 7 Facto nent f DNG E THI 14	60 ors: for age WITH IS STA 0 120 sq. ft.	45 Size c THE J ND W 60 55 Any c	jack pine lass diversity ADJACENT ASPEN /HEN CUT. aspen (upland) red pine	immature STAND #11. immature immature es will be accep	N WILL MO N Y	shelterwood- seed	10-19 years NEED TO ARTIF 30-39 years within 0-9 years	0 ICIALLY 0 5 1 eration.	
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com	unts Fmd J 5 Ants Fmd A 3 R 9 A 5	: Star W 1 <u>Treatme</u> De : MA REC A 3 W 1 : Mar A 2 <u>Treatme</u>	3 d wa 1 ent Lir elayecc NAG <u>BENE</u> 4 7 K dow 50 ent Lir	88 s thinr 37 niting I treatr E ALC ERATE 26 81 81 vn to 2 36 miting	11 7 Facto nent f DNG 3 THI 14 14 40-50 6 Facto	2005. 60 <u>ors:</u> for age WITH (S STA) 0 120 sq. ft. 90	45 Size c THE J ND W 60 55 Any c	jack pine lass diversity ADJACENT ASPEN /HEN CUT. aspen (upland) red pine	immature STAND #11. immature immature es will be accep	N WILL MO N Y	shelterwood- seed	10-19 years NEED TO ARTIF 30-39 years within 0-9 years	0 ICIALLY 0 5 1 eration.	
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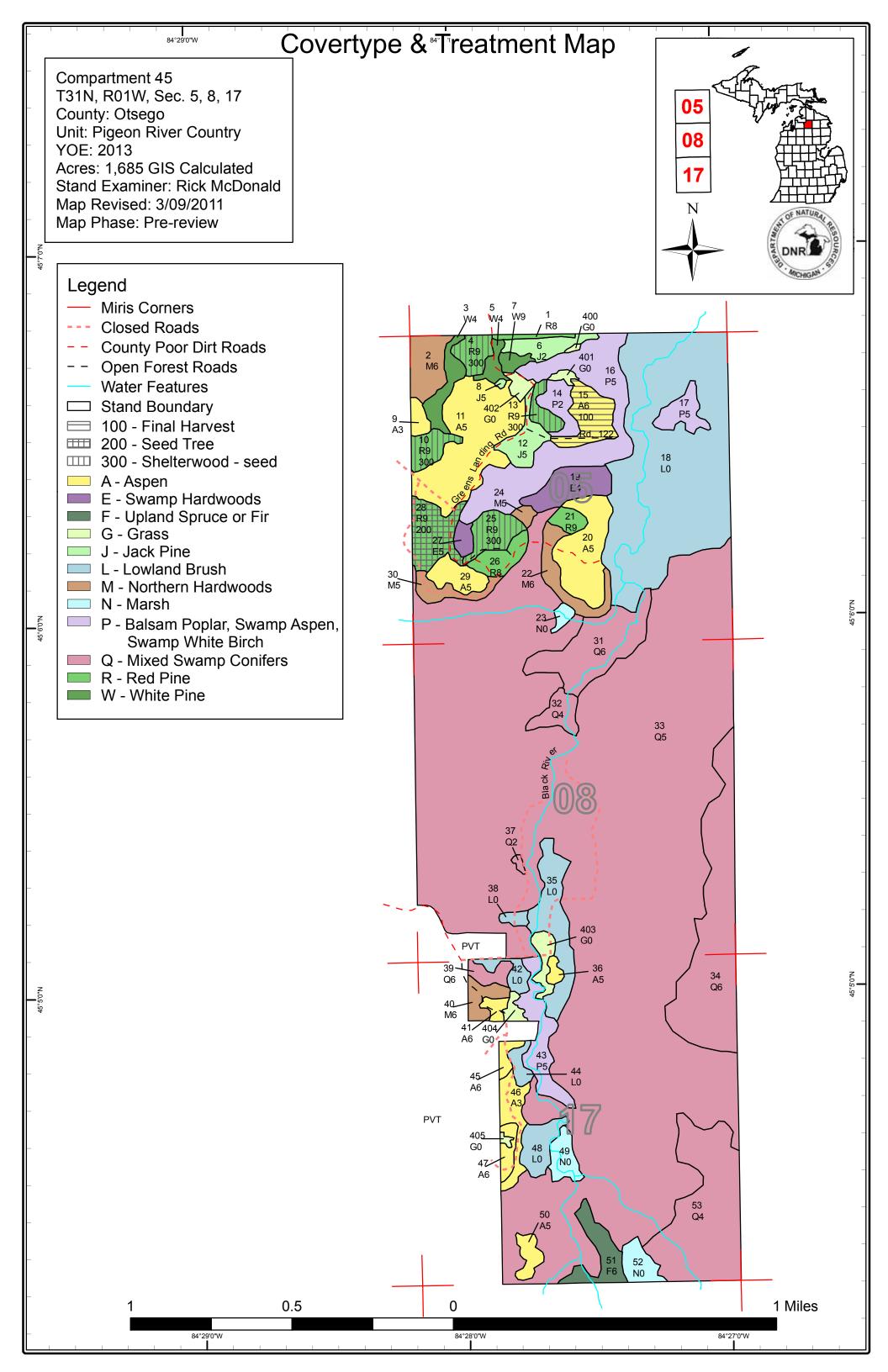
S t	Cover Type-	Under Story-	A c r		avg. D				* See "Co for furth	ompartme er descrip <b>Silv.</b>	ent Packets Glos otions and code	ssary of Terms" do definitions.	ocument lin	k on web site
- n d	Šize Dnsty	Stking Level	e s	Age	D B H	Tot. BA	Site Indx		Condition	Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
3	R 9	F 1	5	82	18	100	60	red pine	mature	Y	shelterwood- seed	within 0-9 years	s 1	
com	ints Fmd			A SEA			WET	STAND THAT IS J	UST REACHII	NG MER	CHANTABLE S	SIZE. COULD C	UT AGAI	N IN TEN
4	P 2	L 0	8	36	3	30	50	balsam poplar & swamp aspen and swamp white birch	immature	Ν		not scheduled	0	
5	A 6	A 1	14	37	8	90	60	aspen (upland)	immature	Ν	final harvest	within 0-9 years	s 1	
com	nts Fmd							ose a problem when h on at pre-review.	narvesting. I an	n recomn	nending a winter	r cut to limit soil o	damage by	equipment.
6	P 5	L 0	57	76	8	50	50	balsam poplar & swamp aspen and swamp white birch	low quality	Y		not scheduled	0	
			er ya	-		<u>rs:</u>								
7	P 5	L 0	9	76	8	50	50	balsam poplar & swamp aspen and swamp white birch	low quality	Y		not scheduled	0	
			erior	quality	,		low st	ocking/small diamete	r/etc.					
8	L 0	L 0	157			0		lowland brush	nonstocked	Ν		not scheduled	0	
9	E 4	L 0	15	96	8	20	35	swamp hardwoods	low quality	Y		not scheduled	0	
		<u>Treatme</u> To	o we	-	Facto	<u>rs:</u>								
20	A 5	A 2	26	37	7	60	65	aspen (upland)	immature	Ν		10-19 years	0	
	R 9	F 1	4	94	14	10	65	red pine	mature	Ν		10-19 years	0	
21					0	70	55	northern hardwood	immature	N		not scheduled	0	
2	M 6	F 1	12	80	9	10								
		F 1 N 0	12 2	80	9	0		marsh	nonstocked	N		not scheduled	0	

			Δ						* See "Co	ompartme	nt Packets Glo	ssary of Terms" do	cument lin	k on web sit
	Cover Type-	Under Story-	c		avg.						tions and code			K OH WED SIL
	Size Dnsty	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
_				-				-						
)	R 9	W 1	11	76	14	120	60	red pine	mature	N	shelterwood- seed	within 0-9 years	5 1	
					NHO									TO
om	ints Fmc							ATION. STAND W EN THOUGH IT W					DESIRED	10
6	R 8	W 1	8	81	12	40	55	red pine	two aged	Y		10-19 years	0	
		Treatme		-										
		Ina	dequ	ate vo	lume	due to	low sto	ocking/small diamete	er/etc.					
7	E 5	L 0	3	96	7	50	35	swamp hardwoods	low quality	Y		not scheduled	0	
		Treatme		-				line and the second	11					
		Re	tentic	on of St	and to	or rege	eneratio	on purposes (ie. she	iterwood)					
8	R 9	A 1	17	81	12	70	55	red pine	mature	Y	seed tree	within 0-9 years	s 1	
		Treatme						actices (describe in	commont)					
om	unts Fmd			•	•		•	y mix of species will	,	when eval	uating for succ	essful regeneration	n.	
9	A 5	A 2	9	36	6	50	60	aspen (upland)	immature	N	uuung tot succ	10-19 years	0	
•		Treatme	-		-							10 10 904.0	C	
				quality										
			dequ	ate vo	lume	due to	low sto	ocking/small diamete	er/etc.					
0	M 5	W 2	7	80	8	60	60	northern hardwood	immature	Ν		not scheduled	0	
om	nte Emd	I · SMA		STAN	D OF	RFD	MAPL	E AND BIRCH. TO	OO SMALL TO	MANAG	F BY ITSFI F	7		
									oo sin ille re					
1	Q 6	L 0	34	109	9	160	35	mixed swamp	moturo			the set of a set of set		
								conifer	mature	Y		not scheduled	0	
		Treatme	nt Lir	niting I	Factor				mature	Y		not scheduled	0	
			<u>nt Lir</u> er ya	-	Factor				mature	Y		not scheduled	0	
com		De I: THI	er ya S IS A	rds		<u>rs:</u>					RTH. THE UN			PRE OPEN A
	onts Fmd	De I : THI WEI	er ya S IS A LL.	rds A WE	FTER	r <u>s:</u> . STAP	ND TH	conifer	DJACENT TO	THE NOF	TH. THE UN	DERSTORY IS M	IUCH MO	RE OPEN A
		De I: THI	er ya S IS A	rds		<u>rs:</u>		conifer			RTH. THE UN			ORE OPEN 4
	unts Fmd	De I : THI WEI L 0	er ya S IS A LL. 8 nt Lir	rds A WE 109 niting I	ITER 9	r <u>s:</u> STAN 30	ND TH	conifer AN STAND #11 A	DJACENT TO	THE NOF	TH. THE UN	DERSTORY IS M	IUCH MO	RE OPEN 4
2	Q 4	De I : THI: WEI L 0 <u>Treatme</u> To	er ya S IS J LL. 8 <u>nt Lir</u> o wet	rds A WE 109 miting I	Factor	r <u>s:</u> . STAN 30 r <u>s:</u>	ND TH 30	conifer AN STAND #11 A	DJACENT TO ' sparse	THE NOF	RTH. THE UN	DERSTORY IS M	IUCH MO	ORE OPEN 2
2	unts Fmd	De I : THI: WEI L 0 <u>Treatme</u> To	er ya S IS J LL. 8 <u>nt Lir</u> o wet	rds A WE 109 niting I	ITER 9	r <u>s:</u> STAN 30	ND TH	conifer AN STAND #11 A	DJACENT TO	THE NOF	TH. THE UN	DERSTORY IS M	IUCH MO	PRE OPEN 4
2	Q 4	De I : THI: WEI L 0 <u>Treatme</u> To	er ya S IS Z LL. 8 nt Lir 5 wet 881	rds A WE 109 niting I 109	FTER 9 Factor 9	r <u>s:</u> . STAN 30 r <u>s:</u> 60	ND TH 30	conifer AN STAND #11 Al mixed swamp conifer mixed swamp	DJACENT TO ' sparse	THE NOF	RTH. THE UN	DERSTORY IS M	IUCH MO	ORE OPEN 2
2	Q 4	De I : THI: WEI L 0 <u>Treatme</u> L 0 <u>Treatme</u>	er ya S IS Z LL. 8 nt Lir 5 wet 881	rds A WE 109 niting I 109 niting I	FTER 9 Factor 9	r <u>s:</u> . STAN 30 r <u>s:</u> 60	ND TH 30	conifer AN STAND #11 Al mixed swamp conifer mixed swamp	DJACENT TO ' sparse	THE NOF	RTH. THE UN	DERSTORY IS M	IUCH MO	PRE OPEN 4
2	Q 4	De I : THI: WEI L 0 <u>Treatme</u> L 0 <u>Treatme</u>	er ya S IS 2 DL. 8 nt Lir 881 nt Lir	rds A WE 109 niting I 109 niting I	FTER 9 Factor 9	r <u>s:</u> . STAN 30 r <u>s:</u> 60	ND TH 30	conifer AN STAND #11 A mixed swamp conifer mixed swamp conifer	DJACENT TO ' sparse	THE NOF	RTH. THE UN	DERSTORY IS M	IUCH MO	DRE OPEN 4
2 3 4	Q 4 Q 5 Q 6	De I : THI: WEI L 0 <u>Treatme</u> To L 0 <u>Treatme</u> De L 0	er ya S IS J LL. 8 nt Lir o wet 881 nt Lir er ya 71	rds A WE7 109 niting I 109 niting I rds 73	Factor 9 9 Factor 8	r <u>s:</u> 30 <u>rs:</u> 60 <u>rs:</u> 80	ND TH 30 30	conifer AN STAND #11 A mixed swamp conifer mixed swamp conifer	DJACENT TO ' sparse mature	THE NOF Y Y	TH. THE UN	DERSTORY IS M not scheduled not scheduled	IUCH MO	DRE OPEN 4
2	Q 4 Q 5 Q 6	De I : THI: WEI L 0 <u>Treatme</u> To L 0 <u>Treatme</u> L 0 <u>Treatme</u>	er ya S IS J L. <u>8</u> <u>nt Lir</u> o wet 881 <u>nt Lir</u> 71 <u>nt Lir</u>	rds A WE7 109 niting I 109 niting I rds 73 niting I	Factor 9 9 Factor 8 Factor	r <u>s:</u> STAN 30 r <u>s:</u> 60 r <u>s:</u> 80 r <u>s:</u>	ND TH 30 30 40	conifer AN STAND #11 A mixed swamp conifer mixed swamp conifer	DJACENT TO sparse mature immature	THE NOF Y Y	RTH. THE UN	DERSTORY IS M not scheduled not scheduled	IUCH MO	PRE OPEN 2
2 3 4	Q 4 Q 5 Q 6	De I : THI: WEI L 0 <u>Treatme</u> To L 0 <u>Treatme</u> L 0 <u>Treatme</u>	er ya S IS J L. <u>8</u> <u>nt Lir</u> o wet 881 <u>nt Lir</u> 71 <u>nt Lir</u>	rds A WE7 109 niting I 109 niting I rds 73 niting I	Factor 9 9 Factor 8 Factor	r <u>s:</u> STAN 30 r <u>s:</u> 60 r <u>s:</u> 80 r <u>s:</u>	ND TH 30 30 40	conifer AN STAND #11 Al mixed swamp conifer mixed swamp conifer mixed swamp conifer	DJACENT TO sparse mature immature	THE NOF Y Y	RTH. THE UN	DERSTORY IS M not scheduled not scheduled	IUCH MO	ORE OPEN 4
2	Q 4 Q 5 Q 6	De I : THI: WEI L 0 <u>Treatme</u> De L 0 <u>Treatme</u> Ott	er ya S IS J LL. 8 <u>nt Lir</u> 5 wet 881 <u>nt Lir</u> er ya 71 <u>nt Lir</u> ner D	rds A WE7 109 niting I 109 niting I rds 73 niting I	Factor 9 9 Factor 8 Factor	r <u>s:</u> STAN 30 r <u>s:</u> 60 r <u>s:</u> 80 r <u>s:</u> scedure	ND TH 30 30 40	conifer AN STAND #11 Al mixed swamp conifer mixed swamp conifer mixed swamp conifer	DJACENT TO ' sparse mature immature comment)	THE NOF Y Y N	RTH. THE UN	DERSTORY IS M not scheduled not scheduled	IUCH MO 0 0	PRE OPEN 4
2	Q 4 Q 5 Q 6	De I : THI: WEI L 0 <u>Treatme</u> De L 0 <u>Treatme</u> Ott	er ya S IS J LL. 8 <u>nt Lir</u> 5 wet 881 <u>nt Lir</u> er ya 71 <u>nt Lir</u> ner D	rds A WE7 109 niting I 109 niting I rds 73 niting I	Factor 9 9 Factor 8 Factor	r <u>s:</u> STAN 30 r <u>s:</u> 60 r <u>s:</u> 80 r <u>s:</u> scedure	ND TH 30 30 40	conifer AN STAND #11 Al mixed swamp conifer mixed swamp conifer mixed swamp conifer	DJACENT TO ' sparse mature immature comment)	THE NOF Y Y N	RTH. THE UN	DERSTORY IS M not scheduled not scheduled	IUCH MO 0 0	ORE OPEN 4
2 3 4 5	Q 4 Q 5 Q 6	De I : THI: WEI L 0 <u>Treatme</u> De L 0 <u>Treatme</u> Ott	er ya S IS J LL. 8 <u>nt Lir</u> 5 wet 881 <u>nt Lir</u> er ya 71 <u>nt Lir</u> ner D	rds A WE7 109 niting I 109 niting I rds 73 niting I	Factor 9 9 Factor 8 Factor	r <u>s:</u> STAN 30 r <u>s:</u> 60 r <u>s:</u> 80 r <u>s:</u> scedure	ND TH 30 30 40	conifer AN STAND #11 Al mixed swamp conifer mixed swamp conifer mixed swamp conifer	DJACENT TO ' sparse mature immature comment)	THE NOF Y Y N	RTH. THE UN	DERSTORY IS M not scheduled not scheduled	IUCH MO 0 0	PRE OPEN 2
2 3 4	Q 4 Q 5 Q 6 L 0	De I : THI: WEI L 0 <u>Treatme</u> De L 0 <u>Treatme</u> Oth L 0 <u>Treatme</u>	er ya S IS 2 <u>LL.</u> 8 <u>nt Lir</u> o wet 881 <u>nt Lir</u> rer ya 71 <u>ner D</u> 24 2 2 2	rds A WE7 109 niting I 109 niting I rds 73 niting I ept./Di	Factor 9 Factor 9 Factor 8 Factor v. pro	r <u>s:</u> STAN 30 r <u>s:</u> 60 r <u>s:</u> 80 r <u>s:</u> 0 60	ND TH 30 30 40 es or pr	conifer AN STAND #11 Al mixed swamp conifer mixed swamp conifer mixed swamp conifer	DJACENT TO 7 sparse mature immature comment) nonstocked	THE NOF Y Y N	RTH. THE UN	DERSTORY IS M not scheduled not scheduled not scheduled	IUCH MO 0 0 0	ORE OPEN 4
2 3 4 5	Q 4 Q 5 Q 6 L 0	De I : THI: WEI L 0 <u>Treatme</u> De L 0 <u>Treatme</u> Ott L 0 <u>Treatme</u>	er ya S IS 2 <u>LL.</u> 8 <u>nt Lir</u> er ya 71 <u>nt Lir</u> er D 24 2 2 1 2 2	rds A WE7 109 niting I 109 niting I rds 73 niting I ept./Di	Factor 9 Factor 9 Factor 8 Factor v. pro	rs: 30 rs: 60 rs: 80 rs: 0 60 rs:	ND TH 30 30 40 es or pr 60	conifer AN STAND #11 Al mixed swamp conifer mixed swamp conifer mixed swamp conifer	DJACENT TO ' sparse mature immature comment) nonstocked immature	THE NOF Y Y N	RTH. THE UN	DERSTORY IS M not scheduled not scheduled not scheduled	IUCH MO 0 0 0	PRE OPEN 2

	PIG	EON R	IVE	R CO	UNT	RYN	/IGT (	UNIT	tand Level Inf	ormation	Com	partment: 45	Entry \	'ear: 2013
S t a	Cover Type-	Under Story-	A c r		avg. D				* See "Co for furth	ompartment er descriptio <b>Silv.</b>	Packets Glo	ossary of Terms" do e definitions.	cument lin	k on web site
n d	Size Dnsty	Stkng Level	e s	Age	D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
37	Q 2	L 0	1	109		0	30	mixed swamp conifer	immature	Y		not scheduled	0	
			er ya			<u>rs:</u>								
38	L 0	L 0	2			0		lowland brush	nonstocked	N		not scheduled	0	
1		<u>Treatme</u> De	nt Li er ya		Facto	rs:								
39	Q 6	L 0	5	109	7	70	30	mixed swamp conifer	mature	Y		not scheduled	0	
		Treatme De	<u>nt Li</u> er ya	_	Facto	<u>rs:</u>								
40	M 6	M 1	6	81	8	90	60	northern hardwoo	od immature	Ν		10-19 years	0	
com	ints Fmd	1:												
11	A 6	M 1	3	81	8	70	60	aspen (upland)	mature	Y		20-29 years	0	
		<u>Treatme</u> Ina		-			small	acreage						
12	L 0	L 0	5			0		lowland brush	nonstocked	Ν		not scheduled	0	
43	P 5	L 0	18	76	8	60	50	balsam poplar & swamp aspen an swamp white bird	d	Y		not scheduled	0	
		<u>Treatme</u> Infl		miting ce zone		rs:								
44	L 0	L O				0		lowland brush	nonstocked	Ν		not scheduled	0	
45	A 6	M 1	3	81	8	0	60	aspen (upland)	mature	Y		20-29 years	0	
		Treatme					amall	acreage						
com	ints Fmd							DER PRIVATE O	WNERSHIP.					
6	A 3	A 3	10	25	3	0	60	aspen (upland)	immature	Ν		20-29 years	0	
47	A 6	M 1	4	81	8	80	60	aspen (upland)	mature	Y		20-29 years	0	
		Treatme	nt Li	miting	Facto	rs:		acreage				_0 _0 yourd	č	
1.2	1.0		-				Small		nonotooloo	NI		not onboduled	0	
48 	LO	L 0	10			0		lowland brush	nonstocked	N		not scheduled	0	
19	N 0	N 0	7		0	0		marsh	nonstocked	N		not scheduled	0	

	PIG	EON R	IVE	R CO	ллл	RYN	IGT	UNIT Star	nd Level Inf	ormatior	n Com	partment: 45	Entry Y	/ear: 2013
S t	Cover Type-	Under Story-	A C		avg.				* See "Co for furth	er descripti	t Packets Glo ons and code	ssary of Terms" do definitions.	ocument lin	k on web site
a n d	Size Dnsty	Stking	r e s	Age	D B H	Tot. BA	Site Indx		Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
50	A 5	A 2	5	37	7	50	60	aspen (upland)	immature	Ν		not scheduled	0	
51	F 6	F 2	12	72	9	110	50	spruce-fir (uplands- including upland black spruce)	mature	Y		not scheduled	0	
		<u>Treatme</u> To	nt Lii o wei	-	Facto	<u>rs:</u>								
52	N 0	N 0	7			0		marsh	nonstocked	Ν		not scheduled	0	
		<u>Treatme</u> De	nt Lii er ya		Facto	<u>rs:</u>								
53	Q 4	L 0	64	94	7	30	35	mixed swamp conifer	sparse	Y		not scheduled	0	
		Treatme	nt Lii o wet	-	Facto	<u>rs:</u>								
400	G 0	G 0	1		0	0		grass	nonstocked	N		not scheduled	0	
com	nts Fmd	I: NAT	TUR/	AL GR	RASS	OPEN	ING.							
401	G 0	G 0	2		0	0		grass	nonstocked	Ν		not scheduled	0	
com	nts Fmd	I: NAT	TUR/	AL GR	RASS	OPEN	ING.							
402	G 0	G 0	3		0	0		grass	nonstocked	Ν		not scheduled	0	
com	nts Fmd	l: Acti	ve oi	l well	site.									
403	G 0	G 0	5		0	0		grass	nonstocked	Ν		not scheduled	0	
com	nts Fmd	I: NAT	TUR/	AL GR	RASS	OPEN	ING.							
404	G 0	G 0	3		0	0		grass	nonstocked	Ν		not scheduled	0	
com	nts Fmd	I: NAT	TUR/	AL GR	RASS	OPEN	ING.							
405	G 0	G 0	1		0	0		grass	nonstocked	Ν		not scheduled	0	

Total Acres..... 1685



Compartment 45 T31N, R01W, Sec. 5, 8, 17 County: Otsego Unit: Pigeon River Country YOE: 2013 Acres: 1,685 GIS Calculated Stand Examiner: Rick McDonald Map Revised: 3/09/2011 Map Phase: Pre-review

# Legend

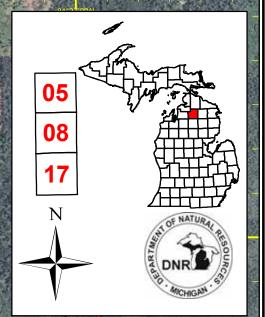
- Miris Corners
- --- Closed Roads
- - County Poor Dirt Roads
- -- Open Forest Roads
- Water Features
- Stand Boundary

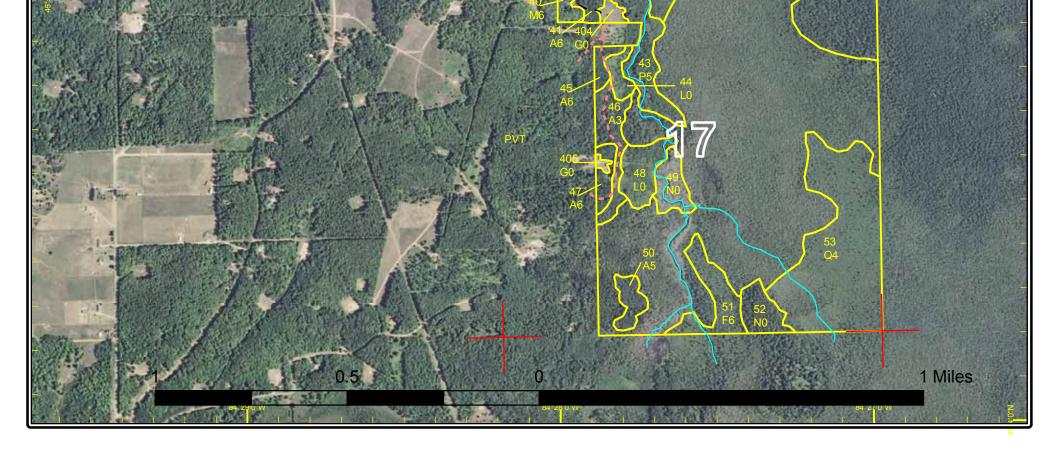
# Stand Boundary Map

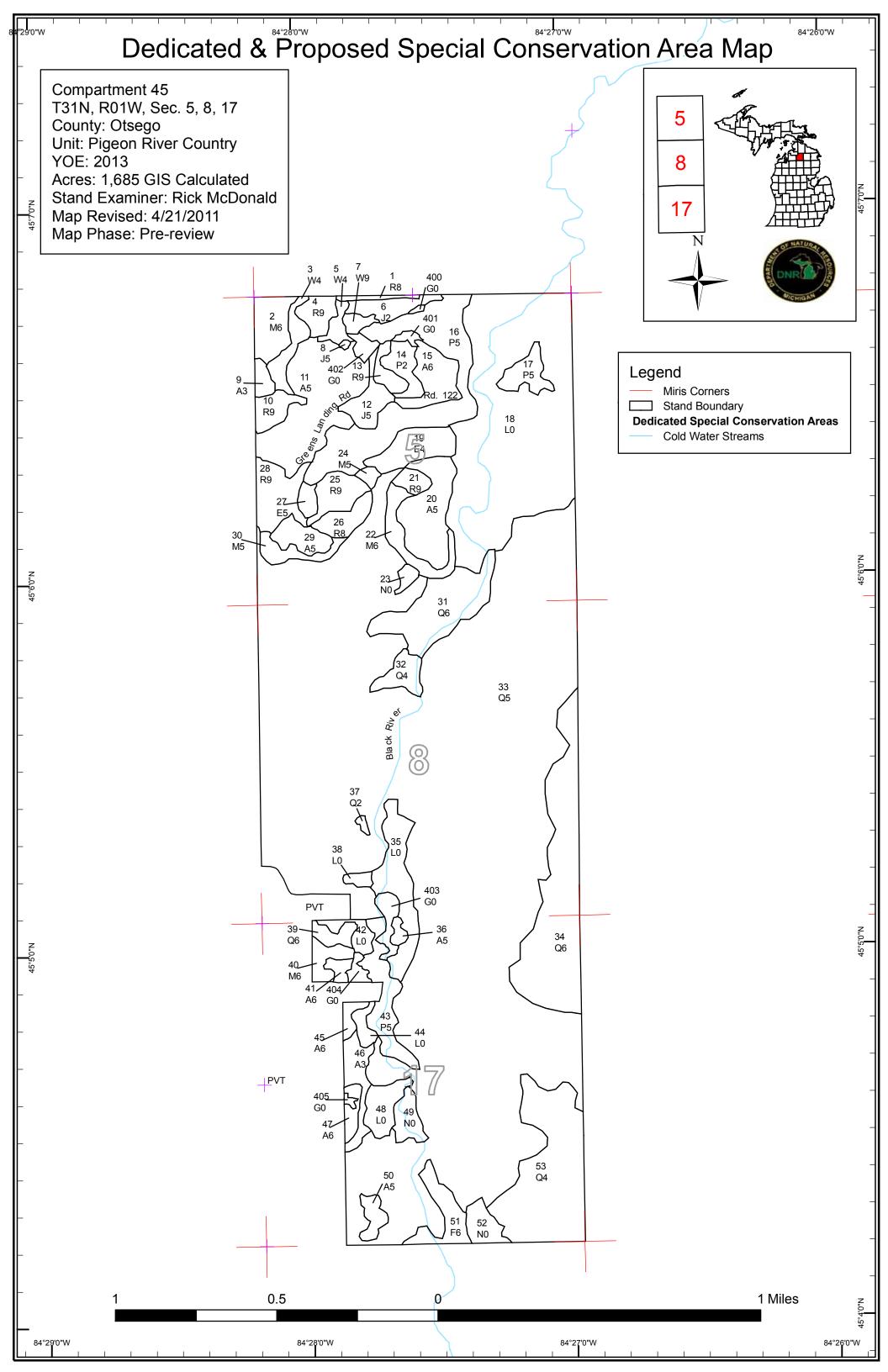
05

08

34 Q6









#### DEDICATED CONSERVATION AREA DETAILS

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.

Conservation Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA (		A coldwater stream has temperature and dissolved oxygen co stocked trout populations and those of other coldwater fish spit to year. Coldwater streams in Michigan typically provide these groundwater to their stream flows. Such streams are establish trout resources by Fisheries Order 210.	ecies (e.g., slimy sculpin) to persist from year conditions due to substantial contributions of