

Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53046 Entry Year 2018 Acreage: 1,749 County Otsego Management Area: Pigeon River Country

Revision Date: 2016-06-26

Stand Examiner: Greg Rekowski

Legal Description:

T31N R01W Sections 4, 9, and 16

Identified Planning Goals:

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

Soil and topography:

Terrain west of Lost Cabin and Tin Shanty Roads is primarily lowland coniferous swamp. The remainder of the compartment is rolling uplands with a mix of pine, aspen, and hardwood types.

Tawas-Lupton muck is the primary soil in the lowland types. Upland soils are dominated by Blue Lake loamy sands, of varying slopes. Rubicon and Mancelona loamy sands are also present in the upland types.

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

This compartment is nearly a solid block of state land with the exception of a 40 acre and 80 acre private parcel at the north end. Oil and gas development is extensive throughout the upland portions in the north half of the compartment.

Unique Natural Features:

A large portion of the Black River swamp is in this compartment.

Archeological, Historical, and Cultural Features:

None identified.

Special Management Designations or Considerations:

A portion of the Tin Shanty Dedicated Habitat Area (DHA) extends into this compartment, encompassing stands 11, 16, and 17.

Watershed and Fisheries Considerations:

Green's Creek, a tributary to the Black River, has it's headwaters in this compartment.

Wildlife Habitat Considerations:

A Wildlife Division representative will be available to participate in the formal compartment review.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Devonian Berea Sandstone, Bedford and Antrim Shales. The Antrim is quarried for cement products elsewhere in the State. An inactive gravel pit is located three miles to the northwest and potential is good on the upland areas. However, page 30 of the Concept of Management for the PRC says that extraction of surface minerals will rarely be allowed. This area is currently leased for Niagaran oil and gas development and several wells were drilled and are still producing oil and gas. Additional Niagaran reefs may be located in the compartment and the Antrim Shale is present and also has potential. The closest Antrim production is just to the southeast. However, the entire compartment is in the Consent Order Area and, as provided on page 33 of the Concept of Management, no new leases will be issued in this Area.

Vehicle Access:

There is good access to this compartment. Roads designated as closed to wheeled motorized traffic are still closed.

Survey Needs:

None required at this time.

Recreational Facilities and Opportunities:

None within this compartment.

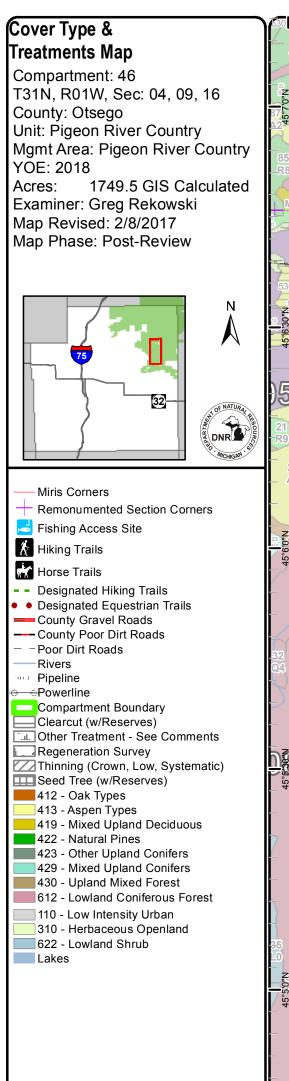
Fire Protection:

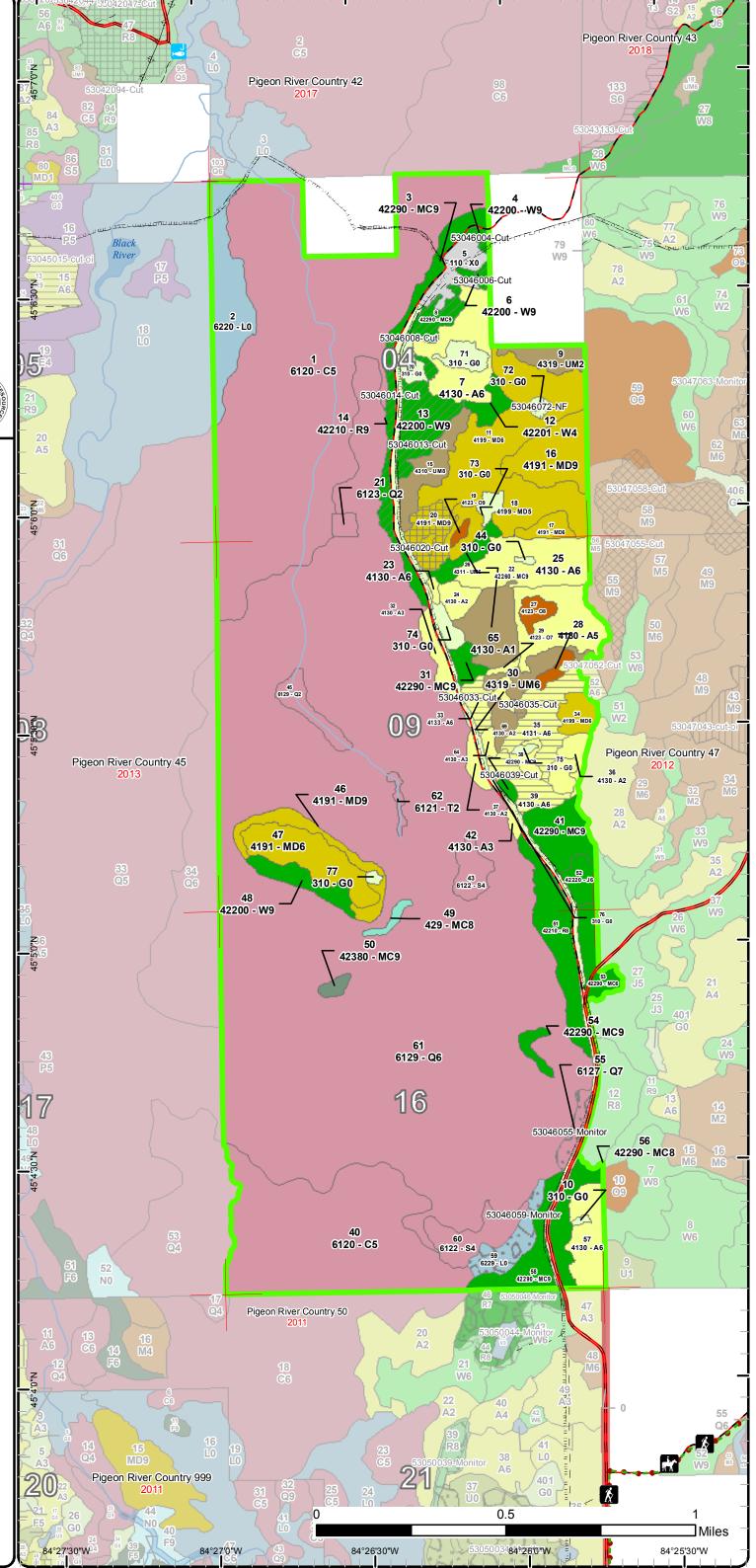
Access is good in case of any fire suppression efforts, though the area is at low risk of any wildfire potential.

Additional Compartment Information:

The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

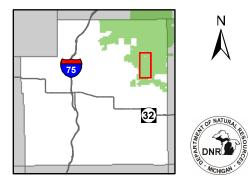
The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system



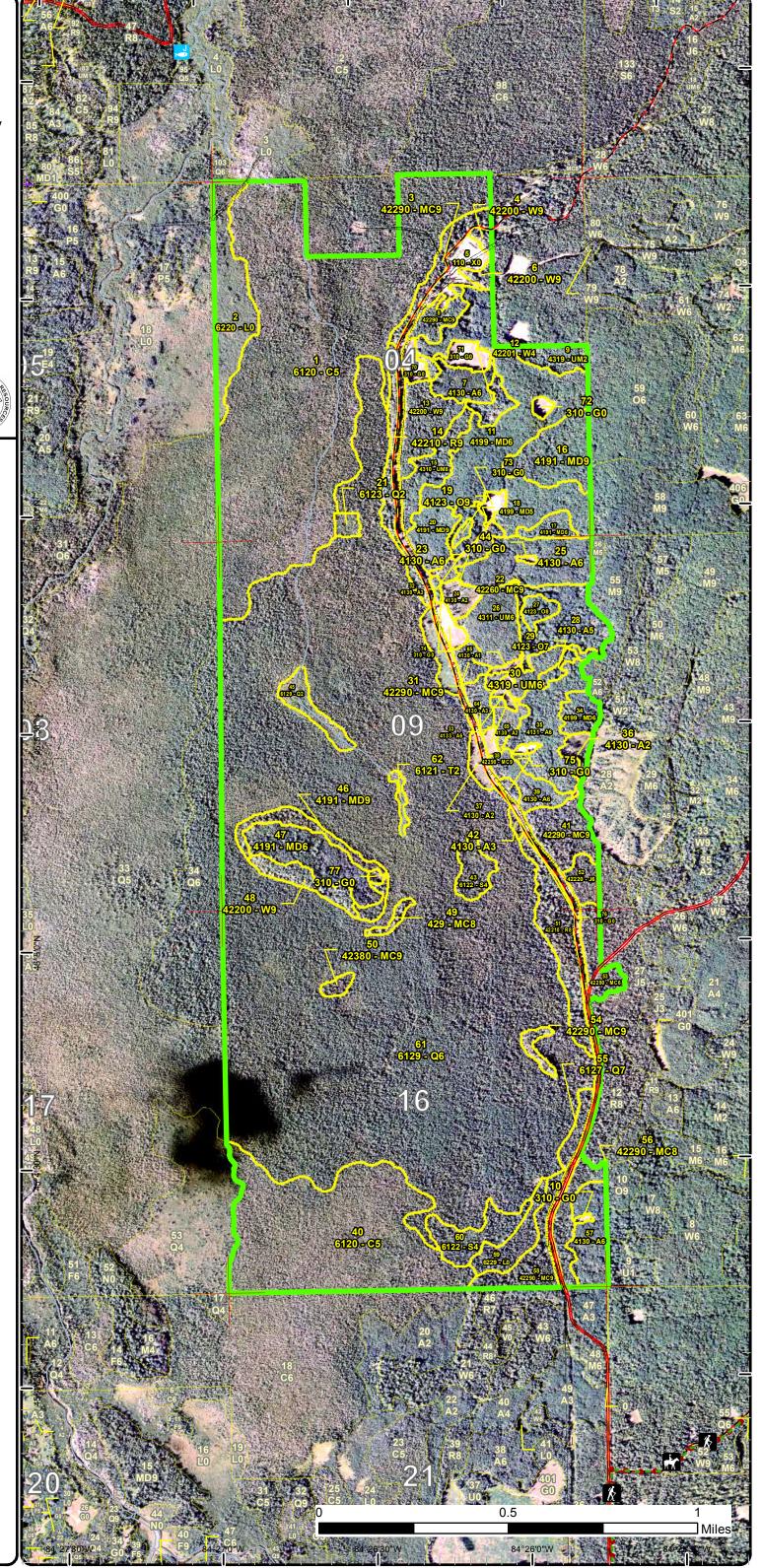


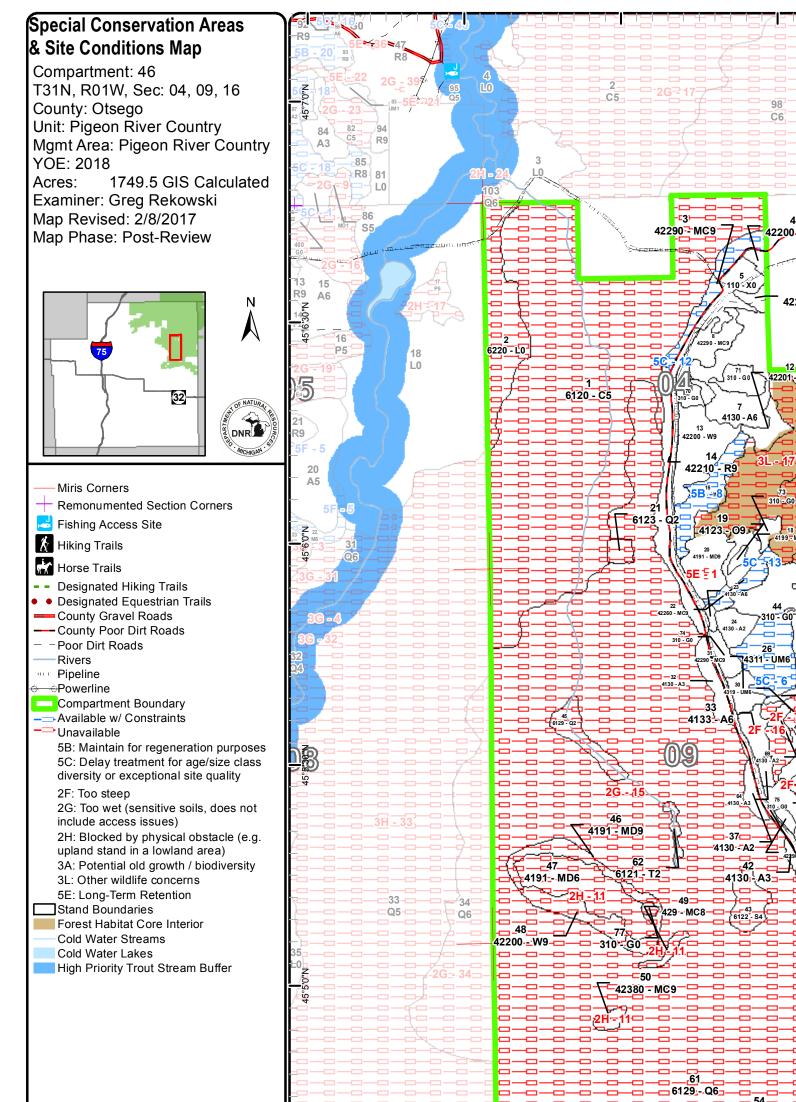
Stand Boundary Map

Compartment: 46 T31N, R01W, Sec: 04, 09, 16 County: Otsego Unit: Pigeon River Country Mgmt Area: Pigeon River Country YOE: 2018 Acres: 1749.5 GIS Calculated Examiner: Greg Rekowski Map Revised: 2/8/2017 Map Phase: Post-Review



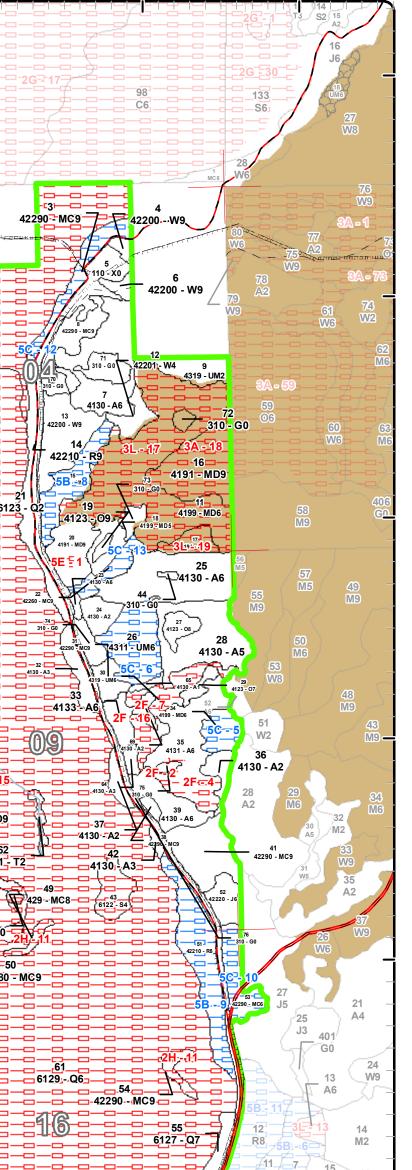
	Miris Corners
+	Remonumented Section Corners
	Fishing Access Site
Ŕ	Hiking Trails
R	Horse Trails
••	Designated Hiking Trails Designated Equestrian Trails County Gravel Roads County Poor Dirt Roads
	Poor Dirt Roads
	Rivers
	Pipeline
	Powerline
	Compartment Boundary
	Stand Boundaries
	412 - Oak Types
	413 - Aspen
	419 - Mixed Upland Deciduous
	422 - Natural Pines
	423 - Other Upland Conifers
	429 - Mixed Upland Conifers
	430 - Upland Mixed Forest
	612 - Lowland Coniferous Forest
	110 - Low Intensity Urban
	310 - Herbaceous Openland
	622 - Lowland Shrub

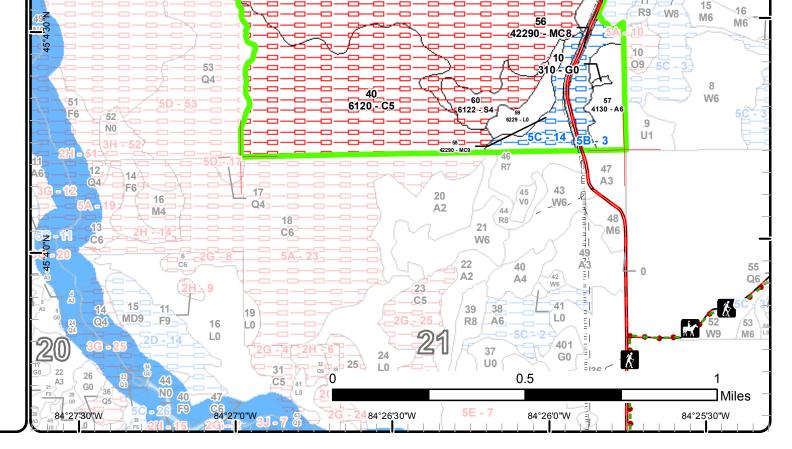




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Report 1 – Total Acres by Cover Type and Age Class

Pigeon River Country Mgt. Unit

Greg Rekowski : Examiner



Age Class

	Nor	KOPEST C	05 4	61.5 43	67 69 67	3 ¥	AL LO	ñ s	99 R		89 89 89 8	8° (8	710,00	Q	67 57 57 57	67.1.5. 1.5.9 1.5.9	100 EX	DX June	A LO LO
Aspen	0	23	0	21	61	39	0	0	0	0	0	0	0	0	0	0	0	0	144
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	355	0	0	0	0	0	355
Herbaceous Openland	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Jack Pine	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	3	8	0	0	0	0	0	5	771	0	0	0	0	0	787
Lowland Shrub	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	0	0	0	5	22	0	0	0	103	11	0	0	0	0	0	0	0	141
Natural Mixed Pines	0	0	0	0	0	10	0	0	0	16	27	23	3	0	0	0	0	0	79
Oak	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	0	0	7
Red Pine	0	0	0	0	0	0	0	0	0	21	0	11	0	0	0	0	0	0	32
Tamarack	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	8	0	0	0	13	0	16	12	0	0	0	0	0	0	0	49
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
White Pine	0	0	0	5	0	0	0	0	17	0	4	0	8	0	0	0	0	0	34
Total	92	23	0	34	71	85	0	13	17	182	56	39	1139	0	0	0	0	0	1751

Acres of Harvest



Year of Entry: 2018

Compartment 46 Total Compartment Acres: 1,749

Commercial Harvest - 76 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method

			Concentration of the second	Delection of C	n Clearcur	Need 120	iene, nood	Octor Contraction Octor	(enone)	ogrado Benego	100 (00)	Sec. Con
Aspen		31	0	0	0	0	0	0	0	0	31	[
Mixed Upland Deciduous		0	0	0	10	0	0	0	0	0	10	1
Natural Mixed Pines		0	0	0	0	0	7	0	0	0	7	
Red Pine		0	0	0	0	0	8	0	0	0	8	
White Pine		0	0	0	0	0	20	0	0	0	20	
	Total	31	0	0	10	0	35	0	0	0	76	

Proposed and Next Step Treatments by Method

		/.	ise use	Contraction of the second	outino	O Co	Contraction of the second	Costicide	os inition	No. Concert	10,000,000,000,000,000,000,000,000,000,	40°E
Current		76	0	0	0	0	0	15	0	2	93	
Next Step		0	0	0	0	0	0	41	0	0	41	
	Total	76	0	0	0	0	0	56	0	2	134	

S t	rigeon	River Co	ountry Mgt. Unit		Re	port 3	Treatme	ents		ment: 46 Entry: 2018	DNR DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4 5	53046004-Cut	1.8	42200 - Natural White Pine	Sawtimber Well	90	141- 170	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	Draft Field Boundary
			Site Condition to 100-110 square	-	on remo	oving the	smallest, supp	pressed stems. Avoid	d marking oak and	d aspen as mu	ch as
<u>Next S</u> Treatm											
<u>Accep</u> Regen											
<u>Other</u> Comm	nent:										
Propos	sed Start Date:	10/01	/2017								
65	53046006-Cut	1.6	42200 - Natural White Pine	Sawtimber Well	90	111- 140	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	Draft Field Boundary
			Site Condition to 100-110 square	-	on remo	oving the	smallest, supp	pressed stems. Avoid	d marking oak and	d aspen as mu	ch as
Next S	Step_										
Accep Regen											
<u>Other</u> Comm											
Propo:	sed Start Date:	10/01	/2017								
8 5	53046008-Cut	6.8	42290 - Natural Mixed Pine	Sawtimber Well	90	171- 200	Harvest	Crown Thinning	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
			Site Condition to 110-120 square ak and aspen as mu	feet. Focus		oving the	smallest, supp	pressed stems from	the poletimber an	d small sawlog	size classes.
<u>Next S</u> Treatm											
<u>Accep</u> Regen											
<u>Other</u> Comm		o thin strip	s at the north end o	of the stand	may ne	ed to be e	excluded due to	o short steep slopes	and proximity to	the oil and gas	structures.
	sed Start Date:	10/01	/2017								
13 5	53046013-Cut	16.7	42200 - Natural White Pine	Sawtimber Well	79	141- 170	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	Draft Field Boundary
		wn to 100	Site Condition	-	noving s	suppresse	ed trees from th	ne small poletimber	and small sawlog	size classes.	Do not cut any
<u>Next S</u> Treatm											
<u>Accep</u> <u>Regen</u>											
<u>Other</u> Comm		e the north	nern finger of the st	and if it is to	o thin to	operate	in.				
	sed Start Date:	10/01	/2017								

S t	Pige	on River Co	ountry Mgt. Unit		Re	eport 3	Treatme	ents	•	tment: 46 Entry: 2018	DF NATURAL HERDOURCE
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
14	53046014-Cu	it 8.1	42210 - Natural Red Pine	Sawtimber Well	⁻ 109	111- 140	Harvest	Crown Thinning	42141 - Planted Mixed Pine, Mixed Deciduous	Uneven- Aged	Draft Field Boundary
	itat Cut: No	down to 80	Site Condition		thinning	n tho omo	llost troos and	retain the largest or	and No other coo	cios bosidos r	d or white
Spec		should be c		e. Focus on	ummių	y ine sina	liest liees and	retain the largest of	les. No other sper		
	<u>: Step</u> tments:										
<u>Acce</u> <u>Reg</u> e	eptable_ en:										
<u>Othe</u> Com	e <u>r</u> Iment:										
<u>Prop</u>	osed Start Da	<u>e:</u> 10/01	1/2017								
20	53046020-Cı		4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	· 87	111- 140	Harvest	Seed Tree with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
			gnificant amounts c ral Regen (Interme		e whole	-tree skid	ding or chippin	ng of tops to encoura	age ground scarifi	cation, during	the fall months.
<u>Acce</u> <u>Reg</u> e		ist a mediur eration suc		th at least a	25% re	presentat	ion of oak. Any	y additional mix of sp	pecies will be acco	eptable in dete	rmining
<u>Othe</u> Com	er Some Iment:	e steep slop	bes but all should be	e workable.							
	Area	retention is	already in MIFI and	d is the nice	natural	pine pock	et in the interio	or of the stand.			
<u>Prop</u>	osed Start Da		1/2017								
33	53046033-Cı	t 4.8	4133 - Aspen, Mixed Pine	Poletimber Well	r 43	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
		ll trees exce ate clumps			, or blac	k spruce.	Leave 1-3 of t	the largest pine per a	acre. Mark to leav	ve some asper	near the pine
	<u>: Step</u> Monit tments:	oring, Natu	ral Regen (Interme	diate)							
<u>Acce</u> Rege		ist a mediui	m-stocked stand do	ominated by	aspen.						
<u>Othe</u> Com	er No ai iment:	ea retentior	n due to small size.								
D			er only harvest to he	elp alleviate b	prowsing	g impacts	to the BTA.				
	osed Start Da	e: 10/01	1/2017								



S t	Pigeo	n River C	ountry Mgt. Unit		Re	eport 3	Treatme	nts		tment: 46 Entry: 2018	DNR DNR
	eatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
35 5304	6035-Cut	17.5	4131 - Aspen, Oak	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
Habitat (Site Condition:								
Prescriptic Specs:	least).	Target the	ties except for any pi biggest and best qu larger aspen that h	uality trees a	as leav	e trees an	d mark more c	lumps in areas that a			
<u>Next Step</u> Treatment	-	ring, Natu	ral Regen (Intermed	iate)							
<u>Acceptabl</u> Regen:	e At leas	t a mediu	m-stocked stand dor	ninated by a	aspen v	with any a	dditional mix of	f species being acce	ptable.		
Other Comment		ion areas	have already been e	xcluded in t	he site	condition	s layer and rep	resent those slopes	and ridgetops th	at are too stee	o to harvest.
		ler a winte	er only harvest and le	aving slash	to try t	to alleviate	e the severe bro	owsing that will take	place on the BT	A, oak, and ha	dwoods.
Proposed	Start Date	<u>e:</u> 10/0	1/2017								
39 5304	16039-Cut	9.1	4130 - Aspen	Poletimber Well	43	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
Habitat (Prescription Specs:	on Cut all		Site Condition: except for any birch, of lo area retention due					5" DBH. Mark to leav	e some aspen n	ear the larger p	ine in order to
<u>Next Step</u> Treatment	-	ring, Natu	ral Regen (Intermed	iate)							
<u>Acceptabl</u> <u>Regen:</u>	e At leas	t a mediu	m-stocked stand dor	ninated by a	aspen v	with any a	dditional mix of	f species being acce	ptable.		
<u>Other</u> Comment		ler a winte	er only harvest due to	the likeliho	od of b	prowsing c	n the BTA.				
Proposed	Start Date	<u>e:</u> 10/0	1/2017								
	046055- Ionitor	4.8	6127 - Lowland Pine	Sawtimber Poor	109	51-80	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Two-Aged	Draft Field Boundary
Habitat (Prescription Specs:		regenerati	Site Condition: on survey protocols,	monitor su	ccess c	of regener	ation in the sta	nd.			
<u>Next Step</u> Treatment	-										
<u>Acceptabl</u> <u>Regen:</u>	e Black s	spruce reg	generation that meets	s the stockir	ng guid	elines. Pii	ne and red map	ble will be expected t	o be additional c	omponents.	
<u>Other</u> Comment	<u>.</u>										
Proposed	Start Date	<u>e:</u> 10/0	1/2027								
	046059- Ionitor	10.1	6229 - Mixed Iowland shrub	Nonstockee	0 b	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	Draft Field Boundary
Habitat (<u>Cut:</u> No		Site Condition:						·		
Prescription Specs:	<u>on</u> Using	regen surv	vey protocols, monito	or success of	of black	spruce re	egeneration.				
<u>Next Step</u> Treatment											
<u>Acceptabl</u> Regen:	e Black s	spruce reg	generation that meets	s the stockir	ng guid	elines. Pii	ne and red map	ble will be expected t	o be additional c	omponents.	
<u>Other</u> Comment	<u>:</u>										
Proposed	Start Date	<u>e:</u> 10/0	1/2027								

S t	Pigeon	River C	ountry Mgt. Unit		Re	eport 3	Treatmer	nts	•	tment: 46 Entry: 2018	OF RATURE HANDING
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
72	53046072-NF	1.5	310 - Herbaceous Openland	Nonstocke	d	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
Pres Spec	<u>cs:</u>	lant, brus	Site Condition Sh, burn, or herbicide	-	ı openiı	ng. Plant	hard and/or soft	mast.			
	<u>t Step</u> tments:										
<u>Acce</u> <u>Reg</u> e	eptable_ en:										
<u>Othe</u> Com	er iment:										
Prop	osed Start Date:	10/0	1/2017								
4	Total Treatme Creage Propose		92.8								

Pigeon River Country Mgt. Unit

Compartment: 46 Year of Entry: 2018

Greg Rekowski : Examiner

Availability for Management

Total	Acres	Acres Avail	Acres	D	omina	nt Site	Con	ditions	5				
Acres	Available	With Condition	Not Available		5B	5C	2F	2G	2H	ЗA	3L	5A	5E
143	137	0	6	Aspen		0	6					0	
355	0	0	355	Cedar				355					
46	45	0	1	Herbaceous Openland			0		1				
6	6	0	0	Jack Pine									
786	5	0	781	Lowland Conifers				781					
37	10	0	27	Lowland Shrub				27					
21	0	0	21	Lowland Spruce/Fir				21					
140	15	6	119	Mixed Upland Deciduous		6			32	20	66		1
79	27	49	3	Natural Mixed Pines	10	39			3			0	
7	7	0	0	Oak									
32	11	21	0	Red Pine	21								
2	0	0	2	Tamarack				2					
4	0	0	4	Upland Conifers					4				
49	8	29	12	Upland Mixed Forest	12	16	12			0			
9	9	0	0	Urban									
34	26	0	8	White Pine					8				
1,749	306	105	1,339	Total Forested Acres	43	61	19	1,185	49	20	66	0	1
	17%	6%	77%	Relative Percent									

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site Dominant Site No. Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1 Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
2 Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						

Pigeon River Country Mgt. Unit

Report 4 – Site Conditions

Compartment: 46

Greg Rekowski : Examiner

Year of Entry: 2018

3	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Pigeon River Country Mgt. Unit

Report 4 – Site Conditions

Compartment: 46 Year of Entry: 2018

Greg Rekowski : Examiner

9	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
C	omments:						
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	49	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
C	omments:						
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
C	omments:						
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						

Pigeon River Country Mgt. Unit Greg Rekowski : Examiner			F	Report 4 – Site Cor	nditions	ns Compartment: 46 Year of Entry: 2018		
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1,185	Unspecified	Unspecified	Unspecified	Unspecified	
(Comments:							
16	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified	
(Comments:							
17	Unavailable	3L: Other wildlife concerns	61	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: Awaiting MNFI field	d survey. Stand is part of the Ti	n Shanty D	HA.				
18	Unavailable	3A: Potential old growth / biodiversity	20	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: No treatment due t	o the large component of hemic	ock. This s	tand is also part of the T	in Shanty DHA.			
19	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: Awaiting MNFI field	d survey. Stand is part of the Ti	n Shanty D	HA.				



Report 5 – 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.

SCA Name SCA Category Detail Type Recommendation Acres

Comments

Compartment: 46 Year of Entry 2018



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish spect conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish spec year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	ies (e.g., slimy sculpin) to persist from ese conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high o communities are ecologically and socially significant in their effe as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well

Pigeon River C	ountry	Mgt.	Unit
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Report 7 – Forested Stands

DIR NATURAL PLANA

S t	Pigeon River Country	v Mgt. Unit		Report 7	 Forested 	Stands Compartment: 46 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Medium	246.7	115	81-110	Poor quality stand with a lot of declining cedar, quite a bit of it is already dead. Green's Creek flows north through the middle of the stand. The few decent pockets of remaining cedar seem to be concentrated closer to the creek. The scattered cedar blowdown along with the thick alder and fir understory makes this a difficult stand to navigate through. Black spruce and tamarack become more dominant in the far NE corner. Did not visit that half of the stand west of the creek, from the imagery it appears very poor quality with a decrease in stocking as well. Average ba/acre from 11 plots = 105 square feet. Trace of white pine, balsam poplar, red maple, and quaking aspen. Too wet and poor quality to ever consider management here.
3	42290 - Natural Mixed Pine	Sawtimber Well	9.3	109	81-110	 Thin stand that is on a transition to the Black River swamp. May have been thinned at one point as the large pine overstory is somewhat variable. Spruce and fir has primarily filled in the more open spots. Trace of cedar along the west edge. Average ba/acre from 8 plots = 106 square feet. Scattered clumps of 2-3 small posts in the north half. These are labeled "MW" which must be monitoring wells for the adjacent processing facility.
4	42200 - Natural White Pine	Sawtimber Well	1.8	90	141-170	XL sized white pine more common in the north half. Stocking increases with more suppressed white pine poletimber in the south half. Pocket of white pine regen along the road. Trace of jack pine and paper birch. Average ba/acre from 3 plots = 157 square feet.
6	42200 - Natural White Pine	Sawtimber Well	2.3	90	111-140	West finger of stand is behind a fence that encloses the adjacent gas processing facility. Road running east-west splits the stand. Average ba/acre from 3 plots = 137 square feet.
7	4130 - Aspen	Poletimber Well	21.0	37	81-110	Stand cut in 1980 by Champion. Aspen regenerated quite well except for a 2-3 acre area in the northern part which is now quite open except for some white pine filling in. Diameters tend to vary a little bit with a few pockets of smaller stems. Rolling terrain. Trace of red oak and red pine. Average ba/acre from 8 plots = 100 square feet. Stand will be ready to harvest in ten years.
8	42290 - Natural Mixed Pine	Sawtimber Well	6.8	90	171-200	Stand does not appear that it has been thinned before. A lot of smaller, suppressed white pine poletimber that are the same age as the larger trees in the stand. Oak is primarily in the central portion of the stand. Average ba/acre from 8 plots = 171 square feet.
9	4319 - Mixed Upland Forest	Sapling Medium	7.6	24	Immature	Previous OI stand comments below are still applicable. Only aspen is in the far western end. Browse pressure is pretty severe in this stand, there really isn't an understory at all. I think literally every red maple stem has been damaged by elk. The white pine in the denser pockets is decent quality but the remainder is somewhat open grown. Scattered open areas due to browse which are now degraded with mostly moss and bracken fern.
						OPIC - FMD: 2006 THIS STAND WAS TYPED AS AN A1 STAND BUT THERE REALLY ISNT NOT ANY ASPEN IN IT. WHITE PINE HAS SEEDED IN AND THERE IS SOME RED MAPLE STUMP SPROUTS IN THE STAND. THERE IS A LITTLE PATCH OF A3 ON THE VERY WESTERN TIP OF THE STAND.

S t	Pigeon River Country	^v Mgt. Unit		Report 7	– Forested	Stands Compartment: 46 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
11	4199 - Other Mixed Upland Deciduous	Poletimber Well	61.1	86	111-140	 -Very diverse stand that doesn't appear to ever have been thinned before. Varying quality and size throughout. Oak, pine, and hemlock display the best growth, not the best site quality for other hardwoods like maple and basswood. Possibly a two-aged stand? The oak and pine may have come in first followed by the maple, beech, and hemlock. Hemlock appears healthy and patches are mostly in the northern and southeastern parts of the stand. Average ba/acre = 115 sq. ft. -Rolling terrain with a few steep slopes. -Very heavy use by deer and elk which has resulted in a barren understory in most spots, even leatherwood is being browsed.
12	42201 - Natural White Pine, Mixed Deciduous	Poletimber Poor	4.8	27	1-50	Stand was cut as part of Oilfield Pines (#53-005-89-01), bought and cut by Gary Haskill. Poor stocking, previous notes browsing eliminated the aspen and hardwoods besides red maple. Most of the red maple stems have been damaged by elk. White pine open grown for the most part, a little better quality in the denser pockets.
13	42200 - Natural White Pine	Sawtimber Well	16.7	79	141-170	Stand was thinned in 1991 as part of Oilfield Pines sale, bought and cut by Gary Haskill. A lot of nice stems, albeit rather small due to the high density. Average ba/acre from 5 plots = 164 square feet.
14	42210 - Natural Red Pine	Sawtimber Well	10.7	109	111-140	A stand of very large pine along the Black River swamp edge. Species removal harvest as part of 1989 timber sale Oilfield Pines, bought and cut by Gary Haskill. As a result, stocking is somewhat variable, especially in the far southern end of the stand which has a much lower BA. Pockets of red pine regeneration along the swamp edge in the north part of the stand. Aspen regen is mostly at the south end. Red maple understory is heavily browsed. Average ba/acre from 10 plots =127 square feet. Manage this stand on a long rotation due to the swamp and travel influence.
15	4310 - Pine, Oak Mix	Sawtimber Medium	12.2	90	51-80	Stand was cut in 1991 as part of the Oilfield Pines sale, bought and cut by Gary Haskill. Sale notes said a thinning but looks like most everything was cut except for pine and oak. Some smaller aspen, maple, and birch scattered around. Series of relatively steep ridges and valleys. All appear operable. Stocking increases in the far north end, this part may not have been cut. Average ba/acre from 4 plots = 75 square feet.
16	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	19.8	86	141-170	2006 THERE ARE MANY PATCHES OF HEMLOCK 2 TO 6 INCHES IN DIA. THE HEMLOCK LOOKS PRETTY GOOD, THE PORKIES HAVENT KILLED THE TOPS YET.2015 The hemlock is still healthy. Diverse stand with a variety of diameters. Some areas heavy to sawtimber, while hemlock patches are primarily poletimber. Barren understory. Very heavy use by deer and elk at time of inventory. Trace of red pine and sugar maple. Average ba/acre = 145 sq. ft. This stand is part of the Tin Shanty DHA and no management will take place within this stand.
17	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.7	86	111-140	Diverse stand that hasn't been managed before. Average ba/acre = 137 sq ft. Stand is part of the Tin Shanty DHA.

S t	Pigeon River Country	Mgt. Unit		Report 7	– Forested	Stands Compartment: 46 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4199 - Other Mixed Upland Deciduous	Poletimber Medium	4.9	37	51-80	BTA mostly in one clone at the NE end. Remainder of stand is primarily red maple stump sprouts, most of which have been damaged by elk. There is a nice representation of oak stump sprouts in the northern part of the stand. A few scattered residual oak and pine. Average ba/acre from 5 plots = 72 square feet.
19	4123 - Red Oak	Sawtimber Well	1.1	86	81-110	Stand lies on top of a ridgeline. The oak is not very high quality. Average ba/acre from 3 plots = 90 square feet.
20	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.7	87	111-140	Mixed stand with a few steep ridges and valleys as you head northeast. Oak quality declines sharply depending on aspect and steepness of the slopes. Aspen is most prevalent along the east and west edges and much of it is showing signs of decay. Scattered pockets of natural pine throughout with a good proportion of small, overtopped red pine. Average ba/acre from 8 plots = 112 square feet. Browse will be an issue if a harvest is prescribed here.
21	6123 - Lowland Fir	Sapling Medium	2.6	35	Immature	Cut by Wildlife Division in the winter of 1981-82 to feed deer. Stand has not regenerated all that well and has a lot of alder, although there is a nice representation of paper birch. The fir almost appears stagnant in spots. The aspen doesn't look very healthy either as there are several that are dead. Didn't see any black spruce during the walkthrough but I'm guessing there is some in here.
22	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.5	87	141-170	Stand thinned in 2013 as part of 7 Stand Mix, #53-006-10-01, bought by Tulgetska. Aspen is primarily in the southern part of the stand. Northern half is dominated by nice pine. Thin middle part of the stand lies on a steep slope and was not included in the thinning. Trace of hemlock. Average ba/acre from 5 plots = 144 square feet.
23	4130 - Aspen	Poletimber Well	1.0	43	81-110	Diameters vary quite a bit on the aspen. Trace of paper birch. Average ba/acre from 3 plots = 83 square feet.
24	4130 - Aspen	Sapling Medium	4.9	4	Immature	Stand cut in 2013 by Tulgetska, 7 Stand Mix, #53-006-10-01, roundwood job. Small retention area left directly adjacent to the well pad. The stand regenerated well initially but the browse is heavy in spots, seems to increase as you get farther away from the well pad. Red maple stump sprouts have been nailed the hardest but the bigtooth is being wiped out in a few spots as well. Residual oak averages 10 square feet per acre.
25	4130 - Aspen	Poletimber Well	24.8	37	1-50	Stand clearcut in 1980 by Champion. Regenerated well. Rolling terrain. Trace of red pine. Average ba/acre = 89 square feet. Diameters are still small, consider harvesting in ten years.
26	4311 - Pine, Aspen Mix	Poletimber Well	16.3	82	141-170	Densely stocked stand with not much of an understory. Roughly even mix of aspen and pine. The patches of pine are of natural origin and are nice quality. Rolling terrain with a few steep slopes at the southern end. Average ba/acre from 7 plots = 163 square feet. Manage for pine and oak, let the aspen senesce.
27	4123 - Red Oak	Sawtimber Medium	3.8	86	51-80	Stand had everything but oak removed in Oil Hills Aspen sale (53-018-88-01). Red oak is pretty nice quality. Average ba/acre from 3 plots = 63 square feet.

S t	Pigeon River Country	y Mgt. Unit		Report 7	– Forested	Stands Compartment: 46 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	4130 - Aspen	Poletimber Medium	20.7	25	Immature	Stand cut as part of Oil Hills Aspen sale, cut by K&R Logging. The aspen is just reaching merchantability while the red maple is lagging behind. Sporadic stocking with several open areas, old OI notes indicate browse pressure was high. Browse pressure is still high as many witch hazel stems are badly damaged. Oak residual is most prevalent in the SW portion of the stand. Rolling terrain. Trace of paper birch, sugar maple, and red pine.
29	4123 - Red Oak	Sawtimber Poor	2.2	96	1-50	Stand had everything except oak cut as part of the Oil Hills Aspen sale (#53-018-88-01).
30	4319 - Mixed Upland Forest	Poletimber Well	12.7	69	111-140	For the most part this stand lies on steep side slopes or ridge tops. Variable mix of species with some scattered clumps of pure pine. Trace of hemlock and beech. Average ba/acre from 11 plots = 138 square feet.
31	42290 - Natural Mixed Pine	Sawtimber Well	4.1	90	111-140	Aspen component primarily near the road and also NE part of the stand. Variable diameters on the pine. The red pine is a bit younger than the largest white pine. Average ba/acre from 4 plots = 120 square feet. Thin in ten years.
32	4130 - Aspen	Sapling Well	5.5	4	Immature	Stand cut in 2013 by Tulgetska, 7 Stand Mix, #53-006-10-01, roundwood job. Aspen is regenerating very well. Hawthorn as well as red oak saplings were protected. Trace of white pine and quaking aspen residual trees.
33	4133 - Aspen, Mixed Pine	Poletimber Well	4.8	43	81-110	Clump of larger QA at the north end that is poor quality. Trace of black spruce. Average ba/acre from 4 plots = 88 square feet.
34	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.4	85	81-110	North half of stand is well stocked with nice hardwoods. South half of stand becomes less well-stocked and starts to transition to more of an oak-red maple type. Large aspen mixed in, quite a bit on the east edge that should be maintained. Average ba/acre from 3 plots = 90 square feet.
35	4131 - Aspen, Oak	Poletimber Well	23.7	44	81-110	Old OI notes indicate all aspen down to 4 inches was cut out of this stand in the early 1970's, likely some red maple was cut as well. Scattered large aspen are mixed in throughout. Site quality increases as you head north and east, with hardwoods increasing in these areas. Pine is mostly concentrated on the steep slopes and ridge tops. Oak is present throughout, although there are a few areas of almost pure oak and little aspen. Average ba/acre from 12 plots = 104 square feet. Browsing will be an issue here if cut, similar stands to the east have been cut and have had most species suffer significant browse.

S t	Pigeon River Country	/ Mgt. Unit		Report 7	– Forested	Stands	Compartment: 46 Year of Entry: 2018	OF NATURAL PLAN
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	A. MICHIGAN .
36	4130 - Aspen	Sapling Medium	4.2	4	Immature	roundwood job. Not cut due to steep slop 35. Heavy browse o actually alive. Will cal of the aspen is elimi happened to the ad take over, red maple	y Tulgetska, 7 Stand Mix, #53-0 all of the original treatment bou bes, those portions are now a p in the regeneration, not sure ho l it an A2 for now but wouldn't o nated in the coming years, sim jacent stand to the east. If cher e and white pine will likely be th variable but averages about 10 per acre.	Indary was art of stand w much is loubt that all ilar to what ry doesn't e resulting
						SLOPES. TO NOT	THIS STAND HAS SOME FAIR CUT THE OAK. IF THIS STAN AVE TROUBLE REGENERATII BROWSING.	ND IS CUT
37	4130 - Aspen	Sapling Medium	3.1	4	Immature	roundwood job. At thi	y Tulgetska, 7 Stand Mix, #53- s point the stand has not reger Il along the swamp edge.	
38	42290 - Natural Mixed Pine	Sawtimber Well	1.3	90	111-140	fir. Average ba/acre serve well as a visua	r-quality. Trace of black spruce from 3 plots = 113 square feet al buffer when the adjacent asp cut. No management.	. Stand will
39	4130 - Aspen	Poletimber Well	9.1	43	81-110	vary on the aspen w small. There is also must have been left older stems are w amount of very large jack pine, balsam fil	erate west-facing slope. Diame ith some areas where the stem o a small component of larger a from the previous harvest. Mo ery poor quality with a lot of rot. white and red pine in the stan r, black spruce, and paper birch from 5 plots = 110 square feet.	s are quite spen that st of these . A small d. Trace of
40	6120 - Lowland Cedar	Poletimber Medium	108.1	115	51-80	significant amount of in these spots. Sou where the cedar is	at is in decline with many areas cedar mortality. The fir unders utheastern corner is really the c s healthy and of decent quality. from 8 plots = 80 square feet.	tory is thick only place
41	42290 - Natural Mixed Pine	Sawtimber Well	15.0	90	81-110	well-stocked poletimb supercanopy. Previ species removal ha variability. Average b of paper birch, bals smaller pine continue	d. Ranges from well-stocked sa er to well-stocked saplings with ious records show a jack pine a rivest in 1973, which is the reas a/acre from 7 plots = 84 square am fir, white spruce, and red or to grow and then thin when the ches the appropriate level.	n a scattered and aspen son for the e feet. Trace ak. Let the
42	4130 - Aspen	Sapling Well	1.1	4	Immature		y Tulgetska, 7 Stand Mix, #53-(bb. Average height about 3-3.5	
43	6122 - Black Spruce	Poletimber Poor	7.6	83	1-50			

S t	Pigeon River Country	Mgt. Unit		Report 7	– Forested	Stands Compartment: 46	ATURAL PLESOURCE
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	HIGAN .
45	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	7.7	41	1-50	This is possibly an unproductive stand. The cedar is small ar stunted, and is not new ingrowth. The tamarack and spruce regeneration appears to be decent quality. Age an estimate because of the small stems. Green's Creek flows through th stand. Cedar mortality at the north end as it looks like there some flooding ongoing in this area.	e e ne
46	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.9	99	81-110	Stand lies on a transition to the surrounding swamp and has few wet areas intermixed. Quite a unique stand with some ve large red maple mixed in. Hemlock at the northwestern end the stand is short and stubby with a lot of porcupine damage the tops. Trace of quaking aspen and spruce. Average ba/ac from 10 plots = 105 square feet.	ery of to
47	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	21.5	47	81-110	Stand cut by Wildlife Division in winter of 1969-70. There has been quite a bit of balsam fir mortality and blowdown. Asper seems to be more prevalent along the north line. A few ver large red maple scattered here and there. Trace of white spru ironwood, and hemlock. Average ba/acre from 10 plots = 88 square feet.	n y Ice,
48	42200 - Natural White Pine	Sawtimber Well	8.4	119	141-170	Very nice natural white pine stand with a component of hemle and upland cedar. Stand sits on a gradual slope which goes down to the swamp. Limited understory for the most part. Tra of paper birch, quaking aspen, and black spruce. Average ba/acre from 6 plots = 157 square feet.	s ace
49	429 - Mixed Upland Conifers	Sawtimber Medium	2.1	119	51-80	Stand lies on a thin ridge. May have been cut at the same tin as the larger stand to the west as there are many open area throughout the stand. Some very large white pine. Cedar mos along the edges. Average ba/acre from 5 plots = 64 square fe	as stly
50	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	2.1	119	111-140	Stand is upland but is not elevated much higher than the surrounding swamp. A few very large red maple. Average ba/acre from 4 plots = 125 square feet.	
51	42210 - Natural Red Pine	Sawtimber Medium	20.9	89	81-110	Stand last cut in Lost Cabin Spruce sale (#53-039-88-01), bought by Michael Bruning. The sale was a species remova harvest with some marked red and white pine as well. Most the volume was spruce, fir, red maple, and aspen. Residua stocking is highly variable as a result of the species remova Highest stocking is in the central part of the stand. Stocking low at both the north and south ends, with aspen regeneratic being mostly in the south end. The north end has pockets of nice white pine and black spruce poletimber which are filling the gaps. Diameters tend to vary on the red and white pine, w some large XL-sized trees mixed in. Trace of balsam fir and paper birch. Average ba/acre from 8 plots = 86 square feet	al of II. is on of in vith d
52	42220 - Natural Jack Pine	Poletimber Well	6.0	43	51-80	Some scattered log-size red and white pine. Quite a few jac pine have broken tops and are now dead. Trace of balsam f and black spruce. Average ba/acre from 4 plots = 78 square feet.	fir
53	42290 - Natural Mixed Pine	Poletimber Well	10.0	43	111-140	Stand had an aspen and jack pine species removal harvest the past. The residual supercanopy is mostly large red pine w a little white pine and averages about 30 square feet. The remainder of the stand is poletimber. Trace of black spruce a balsam fir. Average ba/acre from 6 plots = 122 square feet	vith Ind

S t	Pigeon River Country	/ Mgt. Unit		Report 7	– Forested	Stands	Compartment: 46 Year of Entry: 2018	DR NATURAL RESOURCE
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	B. MICHIGAN
54	42290 - Natural Mixed Pine	Sawtimber Well	3.0	119	141-170	the Black River sw before due to some	pine stand sitting on an upland i vamp. Almost appears as if it ha open areas as well as the lack o age ba/acre from 5 plots = 170 s	s been cut of diversity in
55	6127 - Lowland Pine	Sawtimber Poor	4.8	109	51-80	(#53-014-13-01), bo the volume cut was I maple, and balsam closer to the west I top of slash. A few s occurrences of ruttin	y-February of 2016 as part of Su bught by Precision. Roundwood black spruce with only a few pap fir mixed in. Wet stand especiall ine. Operators did a great job of small areas where they sunk in a g. Average ba/acre of the pine r plots equals 53 square feet.	job, 99% of per birch, red y as you get staying on a little but no
56	42290 - Natural Mixed Pine	Sawtimber Medium	10.4	83	111-140	stocked supercanop half is lower stocke and jack pine. Ope with mostly white areas with less of maple poke up a	scribe. South half of stand has a y of large white pine and red pin d and dominated more by super in areas throughout the stand ha pine, and have reached poletimin f a supercanopy. Sporadic aspe bove the white pine understory. from 8 plots = 114 square feet.	e. The north canopy red ave filled in ber size in n and red
57	4130 - Aspen	Poletimber Well	15.2	36	51-80	aspen is just reachi than the bigtooth. A the edges. Trace of	well following harvest in 1981. T ng merchantability and is quite a few small pockets of pure white red pine and paper birch. Heavy erstory. Average ba/acre from 7 square feet.	a bit smaller e pine along y browse on
58	42290 - Natural Mixed Pine	Sawtimber Well	13.9	109	111-140	and jack pine are i ground starts to in	stand with some big diameter tre mostly in the north finger of the s itermix in the far western portion er birch. Average ba/acre from 7 square feet.	stand. Wet
60	6122 - Black Spruce	Poletimber Poor	13.2	84	51-80		ly pretty nice quality but stocking rstory. Average ba/acre from 4 p square feet.	
61	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	771.1	115	111-140	general, the south which is pretty nice separate tamarack become much mo Trace of quaking as most part this stand only exception wou the largest upland and blown dow understory. Comme for this stand with t strips along the east for the majority, and Snowshoe hare trac were deer, coyote, a good health. A fe significant. Easte tamarack a few year	nifer stand of varying size and of half of the stand has most of the quality. This could almost be typ stand in the future. Cedar and b ore prevalent in the north half of pen, red maple, and balsam pop d is relatively easy to navigate the ld be the area adjacent to and s island stand. This area has a lot in cedar along with a thick fir an rcial management opportunities he exception of maybe a few sm ern edge. The ground is wet and Green's Creek flows through thicks were abundant during field i and elk sign. Majority of the stan w areas of localized cedar declir rn larch beetle was observed kil rs prior but at this time it has not blem. Average ba/acre from 35 square feet.	e tamarack bed out as a lack spruce the stand. blar. For the irrough. The urrounding of stunted d alder do not exist all 1-2 acre d hummocky e north half. hventory as d appears in he but not ling some progressed

S t	Pigeon River Count	ry Mgt. Unit		Report 7	– Forested	Stands Compartment: 46 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
62	6121 - Tamarack	Sapling Medium	2.0	31	Immature	Green's Creek flows through the stand. Old beaver activity and cedar blowdown opened this stand up and it is now filling in with primarily tamarack. There is a small pocket of exotic phragmites in the north part of the stand. At this time it hasn't expanded much into surrounding areas and would be very manageable to treat with herbicide.
64	4130 - Aspen	Sapling Well	1.6	4	Immature	Stand cut in 2013 by Tulgetska, 7 Stand Mix, #53-006-10-01, roundwood job. Stand has regenerated well and is an A3 at this point however elk are browsing the bigtooth aspen quite heavily, so a lower stocked stand is probable next entry.
65	4130 - Aspen	Sapling Poor	1.1	4	Immature	Stand cut in 2013 by Tulgetska, 7 Stand Mix, #53-006-10-01, roundwood job. The sale boundary connected with stand 69 to the south but they couldn't make it up a steep slope which now separates the two stand boundaries. Heavy elk browse on everything that is sprouting back. Likely that in 10 years this will be a nonforested stand.
69	4130 - Aspen	Sapling Medium	1.8	4	Immature	Stand cut in 2013 by Tulgetska, 7 Stand Mix, #53-006-10-01, roundwood job. Aspen has sprouted back well but is being browsed hard, difficult to tell how much is alive at this point. Red maple stump sprouts have mostly been eliminated. Good chance of being nonforested in ten years. Some moderate slopes in this stand.

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Stand	Cover Type	Acres	Managed Site	General Comments:
2	6220 - Alder/willow	26.5	No	Did not visit this stand but from the imagery it appears to be an alder jungle.
5	110 - Low Intensity Urban	8.9	No	OIL AND GAS PRODUCTION FACILITIES.
10	310 - Herbaceous Openland	0.5	No	Old landing.
44	310 - Herbaceous Openland	0.5	No	Looks like this may have been an old landing.
59	6229 - Mixed lowland shrub	10.1		Stand cut in January-February of 2016 as part of Super Spruce (#53-014-13-01), bought by Precision. Roundwood job, 99% of the volume cut was black spruce with only a few paper birch, red maple, and balsam fir mixed in. Wet stand especially as you get closer to the west line. Operators did a good job of staying on top of slash. A few areas where they sunk in but only one area of rutting which exceeded the guidance, located directly along the west line in the north half. Some scattered white pine and red pine closer to the east boundary.
70	310 - Herbaceous Openland	3.5	No	Active well site.
71	310 - Herbaceous Openland	4.9	No	Active well site.
72	310 - Herbaceous Openland	1.5	No	Old well site.
73	310 - Herbaceous Openland	2.5	No	WELL SITE
74	310 - Herbaceous Openland	3.6	No	WELL SITE
75	310 - Herbaceous Openland	0.9	No	Open area on a steep west-facing slope. Old notes say this was possibly an old ski hill? Excellent view from the top of the slope. Can see a large portion of the Black River swamp as well as the old Tyrolian Hills ski area to the west. Being used frequently by snowmobilers as a hill climb.
76	310 - Herbaceous Openland	27.1	No	Tin Shanty and Lost Cabin Roads. Pipeline is a part of this stand as well. It starts along the west side of Tin Shanty Road and then moves to the east side on Lost Cabin Road.
77	310 - Herbaceous Openland	0.8	No	Old notes indicate this opening was created in 1980 by Wildlife Division and treated with the herbicide Amdon.