

Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53039 Entry Year 2020 Acreage: 1,912 County Otsego Management Area: Pigeon River Country

Revision Date: 2018-05-26

Stand Examiner: Greg Rekowski

Legal Description:

T32N - R01W Sections 22, 23, and 24

Identified Planning Goals:

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

Soil and topography:

The majority of this compartment is upland with gently rolling terrain. Site quality varies considerably, reflected by a wide mix of soil types. The most common of these types are Leelanau loamy sands, Morganlake-Ossineke sands, Ossineke fine sandy loams, and East-Lake Rubicon sands. A thin area of lowland swamp conifer runs through the middle of the compartment and is characterized by Tawas-Lupton muck organic soil.

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

This compartment is entirely state-owned and is surrounded by state land on all sides.

Unique Natural Features:

Occurrences of wood turtle have been documented in this compartment by MNFI.

Archeological, Historical, and Cultural Features:

A historical site has been identified in this compartment.

Special Management Designations or Considerations:

None identified for this compartment.

Watershed and Fisheries Considerations:

Hardwood Creek travels through the long swamp conifer stand in the middle of the compartment. Lloyd Lake is located in section 24.

Wildlife Habitat Considerations:

A wildlife representative will be available for comment at the public Open House and will participate in the formal Compartment Review.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are not located in the area, but potential is considered to be good within the compartment. However, page 30 of the Concept of Management for the PRC says that extraction of surface minerals will rarely be allowed. This area was previously leased for Niagaran oil and gas development, and one active lease remains in Section 22, which is held by production. The Antrim Shale is present and has potential. In addition, there may be potential for additional Niagaran reef reservoirs. There is no known metallic mineral potential in this part of the state. 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:

The existing road system is adequate to serve recreational needs and to accomplish proposed cover type management prescriptions.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The High Country Pathway is a hiking trail and passes through the western half of the compartment. The Shore to Shore Trail is a horse trail and passes through Section 23, following Road 84.

Fire Protection:

Fire risk is generally low in the compartment due to the amount of hardwoods. Access is good, through both open and closed roads, if suppression efforts are needed.

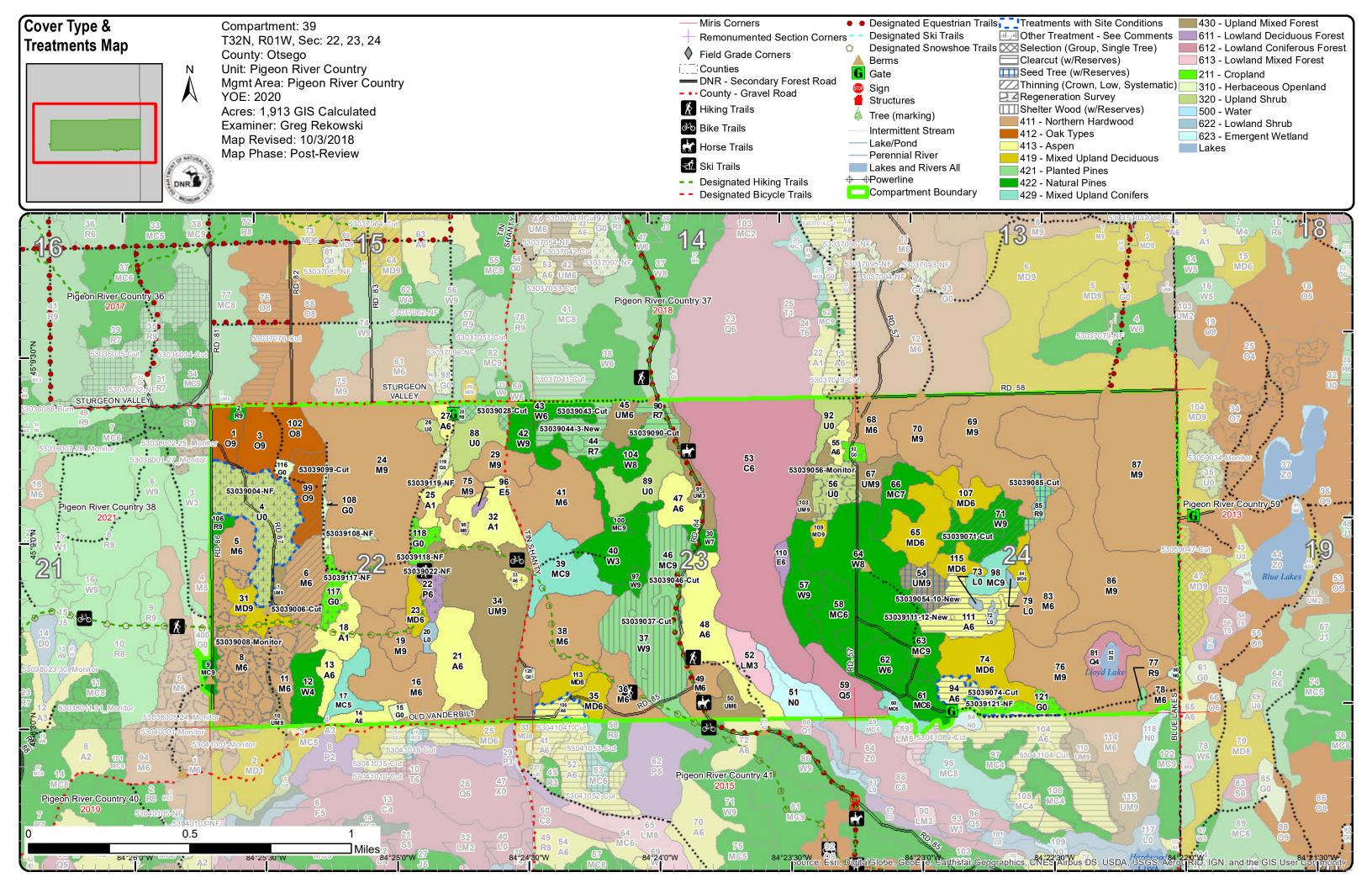
Additional Compartment Information:

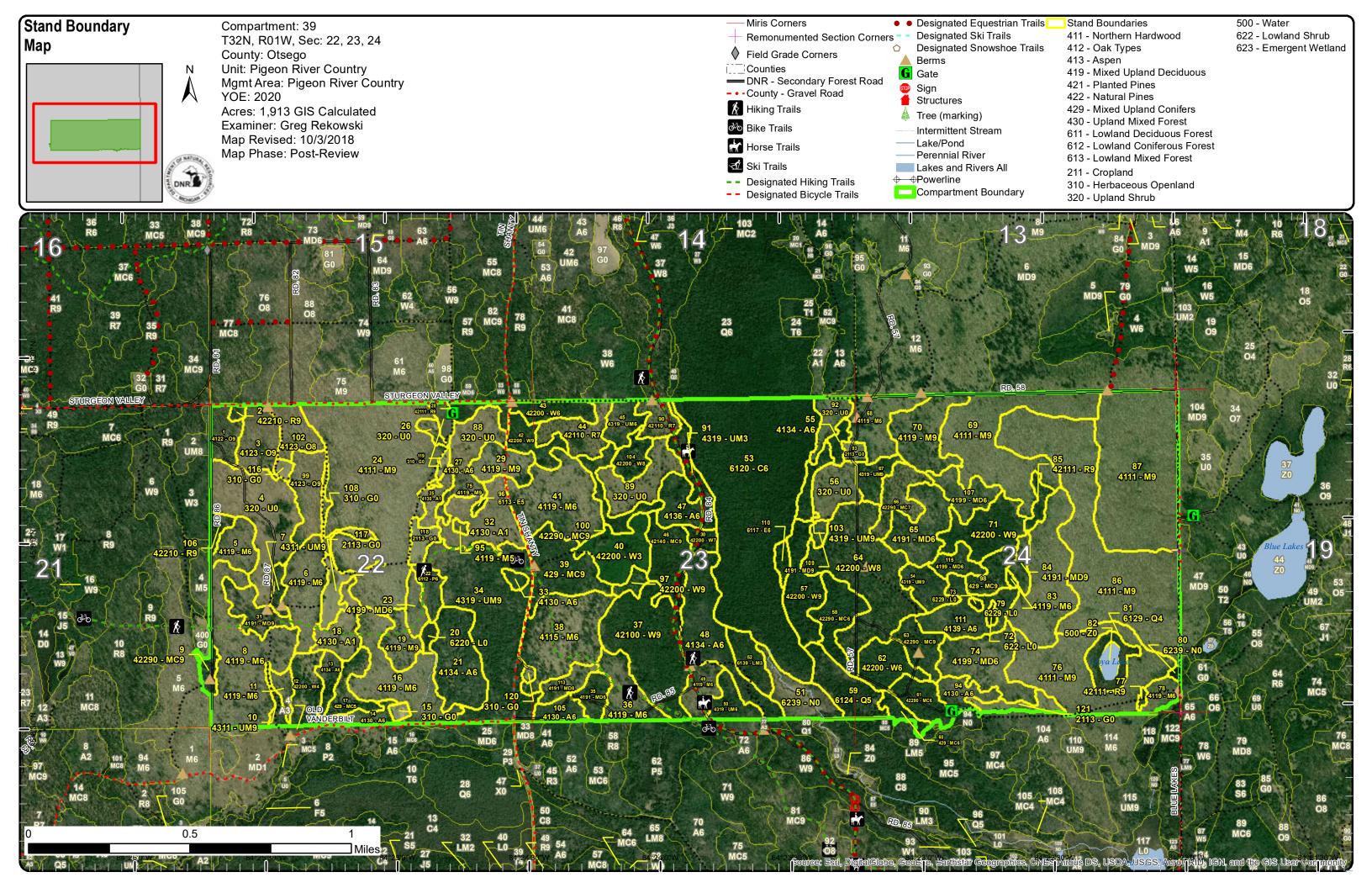
Elk browse continues to be a factor influencing successful tree regeneration in the compartment. Numerous cuts from the past 10 years have failed to achieve adequate aspen and hardwood regeneration.

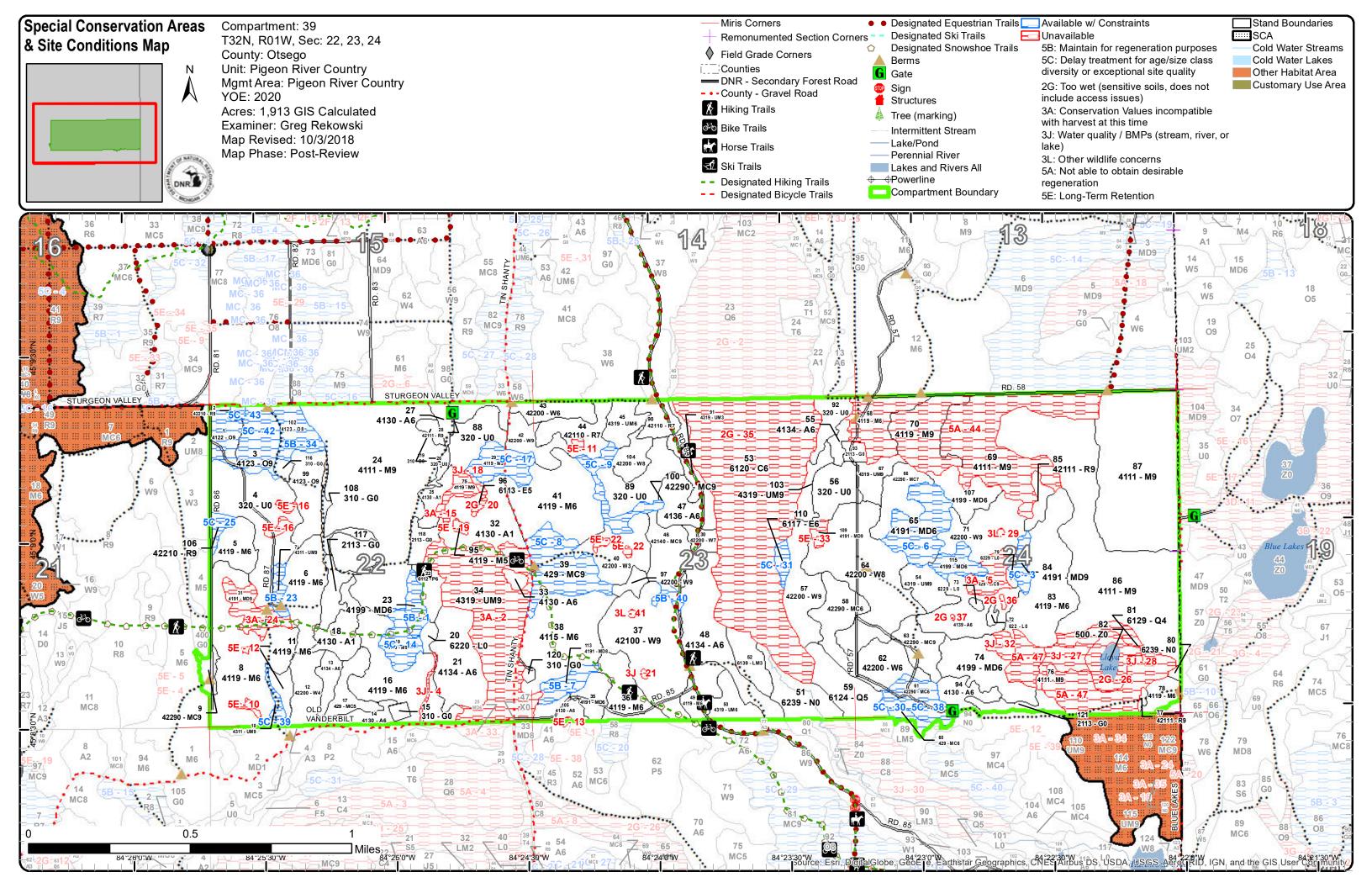
The following reports from the Inventory are attached:

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







Report 1 – Total Acres by Cover Type and Age Class

Pigeon River Country Mgt. Unit

Greg Rekowski : Examiner



Age Class

	Nor				67 (8) 67 (8)		03-10 2.05	3 5	5 ⁶³		89 89 89 89 89 89 89 89 89 89 89 89 89 8	8° (9		62, ⁶²		/	Of the state	px Jrew	A A A A A A A A A A A A A A A A A A A
Aspen	0	41	0	0	89	6	31	0	0	0	0	0	0	0	0	0	0	0	167
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	141	0	0	0	0	141
Cropland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	17	0	0	10	0	0	0	0	0	0	0	0	0	0	27
Lowland Deciduous	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	4
Lowland Mixed Forest	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Marsh	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	0	0	0	0	0	7	18	0	25	34	0	18	0	0	0	0	0	0	102
Natural Mixed Pines	0	0	0	0	0	16	11	0	0	38	0	0	0	0	0	0	0	0	65
Northern Hardwood	0	0	0	0	0	0	0	0	19	244	368	99	0	0	0	0	0	0	730
Oak	0	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	51
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	18
Red Pine	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	37
Upland Conifers	0	0	0	0	10	5	0	0	0	33	0	0	0	0	0	0	0	0	48
Upland Mixed Forest	0	0	0	11	18	0	0	0	0	100	0	0	0	0	0	0	0	0	129
Upland Shrub	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	19	0	13	0	23	0	0	167	0	0	0	0	0	0	0	0	222
Total	152	41	19	21	147	34	89	10	45	725	368	117	0	141	0	0	0	0	1909

Acres of Harvest



Year of Entry: 2020

Compartment 39 Total Compartment Acres: 1,912

Commercial Harvest - 179 Harvests with Site Condition - 16 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method

			Centrul Control of Con	Delection Dato	n Clearcur	Cond Teo	Celle Mood	Olining Olining	Con Concernation	ogligge	10-10-10-10-10-10-10-10-10-10-10-10-10-1	AD SO
Aspen		20	0	0	0	0	0	0	0	0	20	
Mixed Upland Deciduous		8	0	0	0	0	0	0	0	0	8	
Northern Hardwood		2	0	0	0	0	22	0	0	0	24	
Oak		0	0	0	0	0	16	0	0	0	16	
Planted Mixed Pines		0	0	0	0	15	0	0	0	0	15	
Red Pine		21	5	0	5	0	0	0	0	0	31	
Upland Mixed Forest		6	0	0	10	0	0	0	0	0	16	
White Pine		3	0	0	0	42	21	0	0	0	66	
	Total	60	5	0	15	57	58	0	0	0	195	

Proposed and Next Step Treatments by Method

			Sources!	and	Outino o	Contraction of the second	in of the second	^{Costi} cióo	onio	N. Contraction	40 / 3	See
Current		195	0	0	0	0	0	61	0	79	334	
Next Step		0	24	24	0	0	0	161	0	0	209	
	Total	195	24	24	0	0	0	222	0	79	543	

S t	Piç	eon Rive	iver Country Mgt. Unit			Re	eport 3	Treatme	nts	•	tment: 39 Entry: 2020	OF NATURAL OF
a n d	Treatmei Name	t Acre	es	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
	53039_Out OE_1-Cu	:1		4119 - Mixed thern Hardwoods	Poletimber Well	93	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Field Boundar
		earcut all	aspen a	Site Condition: and red maple as seeded due to sta	well as all	pine un		•	up this stand with th	ne adjacent stand	to the south i	n Comp 41.
	<u>Step</u> Mo tments:	nitoring, N	Natural	Regen (Intermedi	iate)							
Rege	en:			of aspen with any								
	ment: -Re	gen chec	k at the	e appropriate inter		ition Wi	ll be any n	nix of species of	lominated by asper	1.		
	<u>53039_Out</u>	OfY (4319 - Mixed	Sawtimber	85	111-	Harvest	Clearcut with	413 - Aspen	Even-Aged	Field Bounda
Jah	OE-Cut itat Cut: N			Upland Forest Site Condition:	Well	otion	140 Volues		Retention			
	<u>cription</u> -Cl <u>:s:</u> hei	earcut all nlock clur	aspen, nps wit		e as well as er.	any sp	pruce or pi) inches DBH. Do n	ot cut any other s	species. If pres	sent, protect
	<u>Step</u> Mo tments:	nitoring, N	Natural	Regen (Intermedi	iate)							
Acce Rege	•	ll-stockec	d stand	dominated by as	pen with an	y additi	onal mix o	of species being	g acceptable.			
71	r -G											
	ment: asp	en, maple	e, and o	ith the adjacent cl conifers resulting ee years due to p	in at least a	n mediu	Im stocked	d stand.	step comments: -A	cceptable regene	eration will be	any mix of
	ment: asp	en, maple gen chec	e, and o	conifers resulting ee years due to p	in at least a	n mediu	Im stocked	d stand.	step comments: -A	cceptable regene	eration will be	any mix of
Com	<u>ment:</u> asp -Re	en, maple gen chec <u>ate:</u> 1	e, and c k at thr 10/1 /20	conifers resulting ee years due to p	in at least a possibility of	n mediu brows	Im stocked	d stand.	step comments: -A	cceptable regene	eration will be	any mix of Incomplete Proposal
Com Prop 4 Hab	<u>ment:</u> asp -Re osed Start I 53039004- New <u>itat Cut:</u> N cription	en, maple gen chec late: 1 I4- (e, and c k at thr 10/1 /20 0.0 320	conifers resulting ee years due to p 14	in at least a possibility of	n mediu brows	im stocked e impactin Unspec	d stand. g regen.		cceptable regene	eration will be	Incomplete
Com Prop 4 Hab Prese Spec	<u>ment:</u> asp -Re osed Start I 53039004- New <u>itat Cut:</u> N cription	en, maple gen chec late: 1 I4- (e, and c k at thr 10/1 /20 0.0 320	conifers resulting ee years due to p 14) - Upland Shrub	in at least a possibility of	n mediu brows	im stocked e impactin Unspec	d stand. g regen.		cceptable regene	eration will be	Incomplete
Com Prop 4 Hab Prese Spec Next Treat	ment: asp -Re osed Start I 53039004- New itat Cut: N cription ss: Step tments: ptable	en, maple gen chec late: 1 I4- (e, and c k at thr 10/1 /20 0.0 320	conifers resulting ee years due to p 14) - Upland Shrub	in at least a possibility of	n mediu brows	im stocked e impactin Unspec	d stand. g regen.		cceptable regene	eration will be	Incomplete
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2 om 2 rop 4 Hab 2 resu 3 Spec Next 1 reat Accee Accee Com	ment: asp -Re osed Start I 53039004- New itat Cut: N cription ss: Step tments: eptable en: f ment:	en, maple gen chec ate: 1 14- (0	e, and c k at thr 10/1 /20 0.0 320 <u>S</u>	conifers resulting ee years due to p 14) - Upland Shrub Site Condition:	in at least a possibility of Nonstocker	d 0	Im stocked e impactin Unspec ified	d stand. g regen. Harvest		320 - Upland Shrub	eration will be	Incomplete
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Com Prop 4 Hab Press Spec Next Treat Accee Rege Othe Com Prop 4 Hab Press Spec Next Treat	ment: asp -Re osed Start I 53039004- New itat Cut: N cription s: ptable en: f ment: osed Start I 53039004- itat Cut: N cription Bro s: step tments: spt	en, maple gen chec ate: 1 14- (0 0 NF 4(0 wse has 1	e, and c k at thr 10/1 /20 0.0 320 <u>S</u> 10/1 /20 0.1 320 <u>S</u> limited s	 conifers resulting ee years due to p 14 O - Upland Shrub Site Condition: O - Upland Shrub Site Condition: Site Condition: 	In at least a possibility of Nonstocker Nonstocker Nonstocker Long-Te	d 0 d 0 erm Re	Unspec ified Unspec ified Unspec ified etention cherry and	d stand. g regen. Harvest NonForestMgt d leatherwood.	ERROR Fruit Tree/Shrub Planting Increase diversity b	320 - Upland Shrub	of native shrut	Incomplete Proposal Draft Field Boundary
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Pigeon River Country Mgt. Unit **Report 3 -- Treatments** Compartment: 39 S Year of Entry: 2020 t а Treatment Stand BA Treatment Treatment Cover Type Acres Stand Size Age Approval n Name CoverType Density Age Range Type Method Objective Structure Status d 53039006-Cut 4119 - Mixed 411 - Northern Draft Field 6 21.8 Poletimber 102 111-Harvest Crown Thinning Uneven-Northern Hardwoods Well 140 Hardwood Aged Boundary Habitat Cut: No Site Condition: Prescription Crown thin to 80-90. Focus on thinning from the poletimber and small sawlog size classes. Cut all beech except leave large diameter wildlife trees and those that do not show any signs of BBD. Do not cut any red or white pine. No canopy gaps at this time due to the small timber. Mark Specs: around hemlock pockets (do not enter). Next Step Treatments: **Acceptable** Regen: Other Add trail specs for the High Country Pathway. Comment: Winter harvest to prevent damage to the adjacent G type which will need to be utilized for access and decking. Proposed Start Date: 10/1 /2019 47.7 Draft Field 8 53039008-4119 - Mixed Poletimber 102 81-110 Monitoring Natural Regen 411 - Northern Uneven-Northern Hardwoods Well (Re-Inventory) Hardwood Aged Boundary Monitor Habitat Cut: No Site Condition: Prescription Monitor regen gaps. Specs: Next Step Treatments: Acceptable Any mix of hardwood species. Regen: Percent to Treat = 100% Other Comment: Proposed Start Date: 10/1 /2021 53039022-NF 6112 - Lowland Poletimber 53 NonForestMgt Other - Specify 6112 - Lowland Even-Aged Draft Field 22 6.4 111-140 Aspen Well Aspen Boundarv Habitat Cut: No Site Condition: Prescription Non-commercial clearcut., preferably during the dormant season (fall/winter) to enhance sprouting and limit damage to wet soils. Cut all species except for any incidental cedar, hemlock, basswood, elm, or birch. Specs: Next Step Treatments: Acceptable Regeneration dominated by aspen with any other mix of species being acceptable. Regen: Protect the High Country Pathway from any damage, including blue-marked trees. Other Comment: Proposed Start Date: 10/1 /2019 53039028-Cut 42111 - Planted 88 141-4319 - Mixed Draft Field 28 5.2 Sawtimber Harvest Group Selection Even-Aged Red Pine, Mixed Well 170 Upland Forest Boundary Deciduous Habitat Cut: No Site Condition: Prescription Create canopy gaps (>66 feet in diameter) in areas with greater amounts of maple and aspen. Crown thin the remaining areas to a residual of 110 square feet. Retain large diameter trees. Do not cut hemlock. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable Any mix of conifers and deciduous species is acceptable in canopy gaps. Regen: Other Comment: Proposed Start Date: 10/1 /2019

	Pigeor	n River Co	ountry Mgt. Unit		Re	eport 3	Treatme	nts	Compart	ment: 39	ALOF NATURAL PLEASE
S t									Year of	Entry: 2020	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
33	53039033-NF	2.1	4130 - Aspen	Poletimber Well	58	81-110	NonForestMgt	Other - Specify	413 - Aspen	Even-Aged	Draft Field Boundary
		mmercial	Site Condition clearcut. Cut all sp	:	for an	y oak, he	mlock, or cedar.				Doundary
	<u>Step</u> tments:										
<u>Acce</u> Rege	0	eration do	minated by aspen v	with any othe	er mix o	f species	acceptable.				
<u>Othe</u> Com	<u>r</u> ment:										
Prop	osed Start Date	<u>:</u> 10/1	/2019								
37	53039037-Cut	42.0	42100 - Planted White Pine	Sawtimber Well	88	111- 140	Harvest	Shelterwood with Retention	42260 - Natural Pine, Mixed Deciduous	Two-Aged	Draft Field Boundary
	<u>s:</u> Retain - Prote - Utilize	all legacy ct patches retention	size white pine ove s of white and red p	of 30-40 squ er 26" DBH. I ine regenera sts and verna	Do not tion, ar	cut any o nd the oa	ak or hemlock. k and birch com	becies mix and focu ponent if possible. I ate a few more sma	Remove the rest of	of the understo	ry species.
	<u>Step</u> Monito tments:	ring, Natu	ral Regen (Re-Inver	ntory)							
<u>Acce</u> Rege		ocked sta	nd dominated by re	d and white	pine re	generatic	on with any other	r mix of species acc	eptable in the rer	naining amoun	t.
<u>Othe</u> Com	ment: - Add a	ippropriate iern treatn		84 and 85, a	as well	as the Hi	gh Country and	arification. Shore to Shore trail h Country Pathway		tand. Do not ci	oss either of
Prop	osed Start Date	<u>:</u> 10/1	/2019								
43	53039043-Cut	3.1	42200 - Natural White Pine	Poletimber Well	52	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
	<u>itat Cut:</u> No		Site Condition	_							
Prese Spec								does not have as m . Add chipping and l		bletimber. If pre	esent, retain
	<u>Step</u> SitePre tments:	ep, Trench	iing; Planting, Initia	al Plant; Mo	onitorin	g, Artificia	al Regen(1yr);	Monitoring, Artificial	Regen(3yr)		
<u>Acce</u> Rege	,	tocked sta	and of planted red p	ine. Any add	litional	mix of sp	ecies that seed	in will be acceptable	9.		
<u>Othe</u> Com	<u>r</u> ment:										
Prop	osed Start Date	<u>:</u> 10/1	/2019								
44	53039044-3- New	13.2	42110 - Planted Red Pine	Sawtimber Poor	88	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
		ut all spec	Site Condition		ket tha	at was cre	eated in the prev	ious harvest. Chipp	ing and low stum	p specs.	
Next		ep, Trench	ing; Planting, Initia	al Plant; Mo	onitorin	g, Artificia	al Regen(1yr);	Monitoring, Artificial	Regen(3yr)		
	ptable Fully-st	tocked sta	and of planted red p	ine.							
<u>Othe</u>											
Prop	osed Start Date	<u>:</u> 10/1	/2019								

		-		
Pigeon	River	Country	Mgt.	Unit

Report 3 -- Treatments



S t a n Treatment Acres Stand				Ne		Heatine	1113	Year of	Entry: 2020	DNR MICHAN N	
n Trea	atment ame	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
46 53039	046-Cut	14.9	42140 - Planted Mixed Pine	Sawtimber Well	88	111- 140	Harvest	Shelterwood with Retention	42260 - Natural Pine, Mixed Deciduous	Two-Aged	Draft Field Boundary
Habitat C Prescription Specs:	n - Shelte Retain - Protec	all legacy ct patches	size white pine over	of 30-40 squer 26" DBH. I on as much	Do not o as pos	cut any oa sible, and	ak or hemlock. the oak, red p	pecies mix and focu ine, and birch comp large diameter trees	onent if it is feasi	ble.	er trees.
<u>Next Step</u> Treatments		ring, Natur	ral Regen (Re-Inve	ntory)							
<u>Acceptable</u> <u>Regen:</u>	_ Well sto	ocked star	nd dominated by re	d and white	pine wit	th any add	ditional mix of s	species acceptable i	in the remaining r	egeneration.	
Other Comment:	- Add a - An are	ppropriate ea of dens	-	34 which is a	lso the	Shore to	Shore trail.	carification. has been excluded	from the south er	nd.	
Proposed S 54 53039	9054-10-	10/17	/2019 4319 - Mixed	Sawtimber	88	111-	Harvest	Seed Tree with	4319 - Mixed	Two-Aged	Draft Field
	lew	10.2	Upland Forest	Well	00	140	Haivesi	Retention	Upland Forest	i wo-Ageu	Boundary
<u>Specs:</u>	(focus r some p or use r	mostly on vine in thes retention t	PB and SM) in the se clumps. Exclude o protect them.	areas where any wet de	e they a	re more c	ommon and ar	ality oak and pine. M e of better quality (n neter white pine that	nore in the easter	n half of the s	tand), include
<u>Next Step</u> Treatments		ring, Natur	al Regen (Re-Inve	ntory)							
Acceptable Regen:	_ Any mi	x of specie	es is acceptable wi	th the expec	tation th	at red ma	aple and white	pine will be the dom	inant regenerating	g species.	
<u>Other</u> Comment:	Use sa	le specs to	o encourage groun	d scarificatio	n.						
<u>comment.</u>	Add 2"	spec to kr	nock down all reger	neration. Pro	tect wh	ite oak sa	plings.				
Proposed S	Start Date:	10/1	/2019								
	39056- onitor	12.9 3	320 - Upland Shrub	Nonstocke	d 0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	Field Boundary
Habitat C Prescription Specs:		regen su	Site Condition		ully-sto	cked stan	d, come up wit	th alternatives to res	tore stocking to d	lesired levels.	
<u>Next Step</u> Treatments	<u>:</u>										
Acceptable Regen:	OI Rx c	comments	: Aspen, red maple	, oak and bi	rch as v	vell as wh	ite and red pin	e would be expected	d to regenerate in	this stand.	
<u>Other</u> Comment:											
Proposed S	Start Date:	10/1	/2027								
	071-Cut	20.7	42200 - Natural White Pine	Sawtimber Well	88	141- 170	Harvest	Crown Thinning	42200 - Natural White Pine	Even-Aged	Draft Field Boundary
Habitat C Prescription Specs:	<u>Crown</u>			cre. Focus th				mall sawlog size clas st in the interior of th			
<u>Next Step</u> Treatments	<u>:</u>										
Acceptable Regen:	-										
<u>Other</u> Comment:	Access	is possib	le via overgrown ro	ads from the	e north.	Utilize the	ese as opposed	d to putting in a new	road.		
Proposed S	Start Date:	10/1	/2019								

Pigeon River Country Mgt. Unit **Report 3 -- Treatments** Compartment: 39 S Year of Entry: 2020 t а Treatment Treatment Cover Type Treatment Acres Stand Size Stand BA Age Approval n Name CoverType Density Age Range Type Method Objective Structure Status d 53039074-Cut 8.0 4199 - Other Mixed Poletimber 75 81-110 74 Harvest Clearcut 413 - Aspen Even-Aged Field Boundary Upland Deciduous Well Habitat Cut: No Site Condition: Age-Class or Site Quality Prescription Clearcut with no area retention due to the small size of the stand. Leave all oak and any supercanopy pine. Leave any other rare species that may be present in the stand such as hemlock, red pine, birch, elm, or basswood. Specs: Next Step Monitoring, Natural Regen (Intermediate) Treatments: Acceptable At least a medium-stocked stand dominated by aspen. Any other mix of species will be acceptable in the remaining regeneration. Regen: -Winter cut recommended to help alleviate browse concerns. Other -This part of stand 74 is dominated by aspen and maple with a small oak and pine component. Out of year of entry proposed to group this stand Comment: with the stands to the south in Comp 41 that are being cut. Proposed Start Date: 10/1 /2014 53039085-Cut 4.5 42111 - Planted Sawtimber 88 111-Harvest Seed Tree 4191 - Mixed Draft Field 85 Two-Aged Red Pine, Mixed Well 140 Upland Boundarv Deciduous Deciduous with Conifer Habitat Cut: No Site Condition: Prescription Seed tree leaving 10-20 square feet per acre of the largest diameter red and white pine trees. Instead of area retention mark to leave a few clumps of trees scattered throughout. Retain hardwoods except for beech, ironwood, and ash. In specs, protect the few small areas with Specs: advanced sugar maple regeneration. Keep an eye out for stick nests and protect any that are found. Next Step Monitoring, Natural Regen (Intermediate) Treatments: Acceptable A fully-stocked mix of hardwood and conifer species is acceptable however any mix dominated by ironwood and beech will be considered unacceptable. Regen: Other Utilize old roads to the north/northwest as access. Avoid creating new roads. Comment: Get the operators to scarify as much as possible but this may be impractical since the harvest will be grouped with the adjacent roundwood thinning Proposed Start Date: 10/1 /2019 90 53039090-Cut 7.8 42110 - Planted Sawtimber 88 1-50 Harvest Clearcut 4211 - Planted Even-Aged Draft Field Red Pine Red Pine Poor Boundary Habitat Cut: No Site Condition: Prescription Clearcut all species, no retention. Add chipping and low stump specs. Add horse trail specs as Road 84 is a route on the Shore to Shore Trail. Specs: Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(1yr) Treatments: Acceptable Fully-stocked stand of planted red pine. Regen: Other Comment: Proposed Start Date: 10/1 /2019 53039093-NF Unspec 310 -Draft Field 93 2.7 2113 - Forage Crops Nonstocked 0 NonForestMgt Other - Specify Herbaceous ified Boundarv Openland Habitat Cut: No Site Condition: Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast. Specs: Next Step Treatments: Acceptable Regen: Other Comment:

Proposed Start Date: 10/1 /2019

Pigeon River Country Mgt. Unit S t a n Treatment Acres Stand					Re	eport 3	Treatmer	nts	•	ment: 39 Entry: 2020	DIR DIRACHER COURCE
n Trea	atment ame	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
99 53039	9099-Cut	15.6	4123 - Red Oak	Sawtimber Well	- 88	111- 140	Harvest	Crown Thinning	4123 - Red Oak	Even-Aged	Draft Field Boundary
Habitat C Prescription Specs:	<u>n</u> Thin do		Site Condition square feet. Focus ntain large diamete	on removing			ms from the pole	etimber and small	sawlog size class	es, as well as a	any heavily
Next Step	<u>s:</u>										
<u>Acceptable</u> <u>Regen:</u>	<u>}</u>										
<u>Other</u> Comment:											
Proposed S	Start Date	<u>:</u> 10/1	/2019								
108 5303	9108-NF	4.7	310 - Herbaceous Openland	Nonstocke	d	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
Habitat C Prescription Specs:		mow, plar	Site Condition	_	ntain op	ening. P	lanting of hard a	nd soft mast.	·		
<u>Next Step</u> Treatments	<u>s:</u>										
<u>Acceptable</u> <u>Regen:</u>	<u>)</u>										
<u>Other</u> Comment:											
Proposed S	Start Date	<u>:</u> 10/1	/2019								
111 5303 I	9111-12- New	19.8	4139 - Aspen, Mixed Deciduous	Poletimber Well	r 50	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
Habitat C			Site Condition	-							
Prescription Specs:	somew pine bu	hat from v	ention. Protect all w what is shown on th all legacy size trees swood.	e treatment	layer. T	hese are	as will serve as i	retention. Mark to I	leave red oak in cl	umps. Cut red	and white
<u>Next Step</u> Treatments		ring, Natu	ral Regen (Intermed	diate)							
<u>Acceptable</u> <u>Regen:</u>	_ ,	ocked sta ered a fail	ind of aspen with ar ure.	ny additional	mix of	species b	eing acceptable	. Regeneration les	s than the aspen	stocking guide	lines will be
<u>Other</u>	Round	wood harv	est in winter month	s to protect	the soils	s from da	mage.				
Comment:	Add br	ush pile sp	pec and mark some	cut and lea	ve trees	s for drum	nming logs.				
	Utilize	the existin	g road network with	nin the stand	l for ma	in skid tra	ails and access t	he stand via the cl	osed road from th	e west/northwe	est.
Proposed S	Start Date	<u> </u>	/2019								

Pigeon River Country Mgt. Unit S t a n Treatment Acres Stand					Re	eport 3	Treatmen	ts	Compartment: 39 Year of Entry: 2020		OF NATURAL PRODUCT
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
117	53039117-NF	8.2 2 ⁻	113 - Forage Crops	Nonstocke	b	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
	S:		Site Condition: t, burn and/or herbio he High Country Pat			•	-		·	ary).	
	<u>Step</u> tments:										
<u>Acce</u> Rege	<u>ptable</u> en:										
	ment:		2040								
	osed Start Date	-						<u> </u>			
118	53039118-NF	5.3 2	113 - Forage Crops	Nonstocke	d	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
		mow, plant	Site Condition: t, burn and/or herbio	cide to mair	ntain op	ening. P	lanting of hard a	nd soft mast.			
	<u>Step</u> tments:										
<u>Acce</u> Rege	ptable_ en:										
<u>Othe</u> Com	<u>r</u> ment:										
Prop	osed Start Date	<u>:</u> 10/1 /:	2019								
119	53039119-NF	1.9 3	310 - Herbaceous Openland	Nonstocke	b	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
		mow, plant	Site Condition: t, burn and/or herbio	cide to mair	ntain op	ening. P	lanting of hard a	nd soft mast.	·		
	<u>Step</u> tments:										
<u>Acce</u> Rege	ptable_ en:										
	ment:										
	osed Start Date	<u>:</u> 10/1 /2	2019								
120	53039120-NF	1.0 3	310 - Herbaceous Openland	Nonstocke	b	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
		mow, plant	Site Condition: t, burn and/or herbio	cide to mair	ntain op	ening. P	lanting of hard a	nd soft mast.			
	<u>Step</u> tments:										
<u>Acce</u> <u>Reg</u> e	ptable_ en:										
	ment:										
<u>Prop</u>	osed Start Date	<u>:</u> 10/1 /:	2019								

S t	Pigeor	River Co	ountry Mgt. Unit		Re	eport 3	Treatmer	nts	•	tment: 39 Entry: 2020	DRR NATURIC
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
121	53039121-NF	6.2 2	2113 - Forage Crops	Nonstocke	d	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
		mow, plar	Site Condition: ht, burn and/or herbio	ide to mai	ntain op	bening. F	Planting of hard a	nd soft mast.			
	<u>Step</u> tments:										
<u>Acce</u> <u>Reg</u> e	ptable en:										
<u>Othe</u> Com	<u>r</u> ment:										
Prop	osed Start Date		/2019								

Total Treatment Acreage Proposed:

334.1

Pigeon River Country Mgt. Unit

Compartment: 39 Year of Entry: 2020

Greg Rekowski : Examiner

Availability for Management

Total	Acres	Acres Avail	Acres		Domina	nt Site	e Cono	dition	S			
Acres	Available	With Condition	Not Available		5B	5C	2G	ЗA	3J	3L	5A	5E
167	166	0	1	Aspen			1		0			0
141	0	0	141	Cedar			141					
22	22	0	0	Cropland								
11	11	0	0	Herbaceous Openland								
6	6	0	0	Lowland Aspen/Balsam Poplar								
27	17	0	10	Lowland Conifers			10					
4	0	3	1	Lowland Deciduous		3	1					
10	10	0	0	Lowland Mixed Forest								
5	5	0	0	Lowland Shrub								
16	16	0	0	Marsh								
103	41	46	17	Mixed Upland Deciduous	13	33		11	3			2
66	43	21	1	Natural Mixed Pines		21						1
730	555	21	154	Northern Hardwood		21		5	10		136	3
51	16	36	0	Oak	11	25						
17	15	3	0	Planted Mixed Pines	3							
37	32	5	1	Red Pine		5						1
48	10	29	9	Upland Conifers		29		9				
128	52	7	69	Upland Mixed Forest	4	3		69				
95	92	0	3	Upland Shrub								3
3	3	0	0	Water								
222	220	0	2	White Pine					0	1		1
1,912	1,334	171	408	Total Forested Acres	31	140	152	94	14	1	136	11
	70%	9%	21%	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.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Manage for hardwoo	ods using standard selection/	thinning te	echniques. Stand does no	t meet BA criteria at this tir	ne.	

		ountry Mgt. Unit owski : Examiner		Report 4 – Site Coı	nditions	Compartment: 39 Year of Entry: 2020	I
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	69	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Unique stand with	a 50/50 mix of upland and lowla	nd. Pit an	d mound topography pre	esent. Heavy component of	hemlock.	
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Thin when the adja	acent hardwood stand to the eas	t is thinne	ed. No final harvest due t	to the intense elk browse p	ressure in the area.	
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: This site condition	protects an intermittent stream.	lt is visibl	e on 98DOQ imagery.			
5	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: High quality stand	of natural pine with a hemlock c	omponen	t. Has never been thinne	ed before. Large vernal poc	l in north half.	
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

				Report 4 – Site Cor	nditions		
Pigeon River Country Mgt. Unit Greg Rekowski : Examiner					Compartment: 39 Year of Entry: 202		
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
13	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						

				Report 4 – Site Cor	nditions		
		ountry Mgt. Unit owski : Examiner				Compartment: 39 Year of Entry: 202	
15	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Surrounded by reco unmanaged.	ent cuts on three sides, and cut	off from t	he adjacent hardwood st	and due to a drainage. Thi	s stand is a good candidate	e to leave
16	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: These areas were	retention pockets for the harves	in stand	4.			
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Wet drainage/verna	al pool complex travels through	his area.				
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Compartment: 39

Greg Rekowski : Examiner

Pigeon River Country Mgt. Unit

Year of Entry: 2020

21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Vernal pool, protec	t with 1/2-1 chain buffer when s	urround	ding treatment is set up.			
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
23	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
24	Unavailable	3A: Conservation Values incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Hemlock dominate	d stand, High Country Pathway	runs th	rough, stick nest present.			
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments:						

Conditions	
Compartment: 39 Year of Entry: 2020	
Unspecified Unspecified	Unspecified
opography, lower BA, and smaller trees. A portion of this appears e lake. Expect the shape of this to change after the treatment lines	
Unspecified Unspecified	Unspecified
Unspecified Unspecified	Unspecified
Unspecified Unspecified	Unspecified
Unspecified Unspecified	Unspecified
tive Unspecified Unspecified ude	Unspecified
ed yellow birch, elm, and maple mixed in.	
u	Unspecified Unspecified

Pigeon River Country Mgt. Unit

Report 4 – Site Conditions

Compartment: 39

Greg Rekowski : Examiner

Year of Entry: 2020

33	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: This area serves as	retention for stand 56 which w	as recent	ly cut.			
34	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	141	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Wetland/lowland shi	rub pocket.					
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Wetland/vernal pool						
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
	018 1·23·58 PM - Page						DO

	Bigoon Biyor C	ountry Mgt. Unit		Report 4 – Site Con	ditions	Compartment: 39	
	_	owski : Examiner				Year of Entry: 202	20
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
40	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Area of dense rege	eneration with a wet drainage rur	nning thr	ough the middle.			
41	Unavailable	3L: Other wildlife concerns	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stick nest						
42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stands 1 and 3 we	re prescribed for a clearcut in th	e 2020 \	′OE but the proposal was	terminated due to concerr	ns over browsing.	
43	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Consider leaving th	nis stand as long term retention o	due to its	s small size.			
44	Unavailable	5A: Not able to obtain desirable regeneration	94	Unspecified	Unspecified	Unspecified	Unspecified
		osed to harvest these stands Ou eration. Agree with these concer					concerns about

	-	[.] Country Mgt. Unit Rekowski : Examiner		Report 4 – Site Co	lations	Compartment: 39 Year of Entry: 2020	
desirable regeneration	47 Unavailabl	e 5A: Not able to obtain desirable regeneration	42	Unspecified	Unspecified	Unspecified	Unspecified

browse and regeneration. Agree with these concerns. Do not prescribe until deer and elk browse issues are resolved.



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: 39 Year of Entry 2020



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.

Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxyg stocked trout populations and those of other coldwater fi year to year. Coldwater streams in Michigan typically pro contributions of groundwater to their stream flows. Such designated as trout resources by Fisheries Order 210.	sh species (e.g., slimy sculpin) to persist from ovide these conditions due to substantial

S t	Pigeon River Country	∕ Mgt. Unit		Report 7	– Forested	Stands Compartment: 39 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4122 - Oak, Pine	Sawtimber Well	9.4	81	51-80	Moderate quality oak that sits on a slight west-facing slope. Site quality is not as great as the adjacent oak stands to the east. Stand was last cut by Georgia Pacific in 1992 as part of the Section 22 Pine sale, #53-008-90-01. All aspen, birch, jack pine, and mixed hardwoods were removed. Somewhat irregular stocking due to the species removal harvest, a few areas of lower BA are mixed in throughout. Variable diameters on the pine with a couple large, XL-sized trees present. Average ba/acre from 7 plots = 80 square feet.
						06/15/2018 Stand proposed for a clearcut at Pre-review but decided to cancel the treatment due to browse concerns.
2	42210 - Natural Red Pine	Sawtimber Well	1.4	88	141-170	Stand was cut by Georiga Pacific in 1992 as part of the Section 22 Pine sale, #53-008-90-01. All aspen, birch, jack pine, and mixed hardwoods were removed except for oak, and some orange-marked red and white pine were cut. Residual red pine is high quality. Unsure if this is planted as there are some trees that appear of natural origin and the orientation doesn't align in rows everywhere. Average ba/acre from 3 plots = 163 square feet.
3	4123 - Red Oak	Sawtimber Well	15.1	81	81-110	Moderate to high quality oak on a transitional site. East half of the stand is on hardwood soils while the west half declines somewhat. Stand last cut in 1991 by AJD as part of Section 22 Oak sale, #53-007-90-01. All species except oak were removed. Harvested volumes were primarily basswood, maple, birch, and aspen. Stocking is somewhat variable due to the species removal harvest. A few clumps of pine at the south end. Sparsely stocked area at the far south end adjacent to the G type. Overall, average ba/acre from 9 plots = 83 square feet. Small opening at the northeast corner which is a popular camping area.
						06/15/2018 Stand proposed for a clearcut at Pre-review but decided to cancel the treatment due to browse concerns.
5	4119 - Mixed Northern Hardwoods	Poletimber Well	10.8	86	81-110	Moderate to low quality, small diameter hardwoods with a component of larger oak and pine. The east half of the stand lies on a slight east-facing slope and has decent quality hardwoods. The remainder of the stand is not as good and has a lot of small red maple stems. Old OI notes indicate a partial harvest took place here in 1968 which may explain the amount of small stems. Although rare, there is some advanced oak regeneration which is now in the poletimber size class. Average ba/acre from 8 plots = 105 square feet. Do not manage using even-aged techniques due to the browse pressure. Let grow some more and look at thinning next entry.
6	4119 - Mixed Northern Hardwoods	Poletimber Well	21.9	102	111-140	Hardwood stand dominated by poletimber of varying quality and stocking. Center of the stand sits on a slight north-south running ridge with gentle slopes running down on each side. Quality and stocking is best in the east half, while it seems to decline somewhat in the west half, with red maple and beech becoming more of a component. A few scattered clumps of hemlock here and there. Most beech appears to have BBD. No ash. Pine is almost exclusively along the far east and west edges. Trace of bigtooth aspen. Average ba/acre from 10 plots = 115 square feet. High Country Pathway runs east-west through the southern end.

S t	Pigeon River Country	Pigeon River Country Mgt. Unit			– Forested	Stands Compartment: 39 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
7	4311 - Pine, Aspen Mix	Sawtimber Well	3.8	88	81-110	 Stand seems to alternate between clumps of aspen and white pine. Old notes indicate a partial harvest took place, and besides the white pine being left, there were also a few larger aspen and hardwoods that were not cut. White pine is wolfy and not great quality, although there are some very large diameters. A few patches of decent advanced hardwood regeneration is present, mostly underneath the white pine clumps, but there is also a lot of ironwood regeneration mixed in. Average ba/acre from 5 plots = 100 square feet.
8	4119 - Mixed Northern Hardwoods	Poletimber Well	50.0	102	81-110	Stand thinned in summer of 2018, 4 Corner Hardwoods (#53- 010-15-01) bought by Precision. All ash and the majority of beech removed and the rest of the stand was thinned using hardwood selection techniques. Some large gaps are being created in areas heavy to beech.
9	42290 - Natural Mixed Pine	Sawtimber Well	4.3	88	81-110	This stand is split down the middle by Road 86. White pine is mostly on the west side of the road and is very poor quality. East of the road is mostly red pine which is pretty low quality as well with quite a bit of variation in diameters (there are a few XL- sized trees mixed in). Hardwoods scattered throughout, including a couple nice black cherry in the west half. Trace of jack pine. Average ba/acre from 6 plots = 110 square feet. The red pine was likely planted but I doubt the white pine was, due to it's sporadic stocking.
10	4311 - Pine, Aspen Mix	Sawtimber Well	3.2	88	81-110	Stands sit in somewhat of a small valley. An old road runs north- south through the middle for the entire length of the stand. Some big diameter white pine but some of it has very poor form. Aspen and hardwoods tend to vary in diameter with smaller stems more common the further north you go. Average ba/acre from 6 plots = 110 square feet. Small acreage for management, especially with the road running right through the middle.
11	4119 - Mixed Northern Hardwoods	Poletimber Well	4.2	80	81-110	 Stand of small diameter hardwoods that wasn't included with the adjacent harvest to the north and west. Not the greatest hardwood quality, the white pine is nice though. Average ba/acre from 5 plots = 110 square feet. Do not consider even-aged management due to the extreme browse pressure in the area, look to the adjacent stand to the east for evidence of that.
12	42200 - Natural White Pine	Poletimber Poor	13.2	36	51-80	 Stand cut in 1982 by Champion as part of 1-22 Aspen, #53-023-80-01. Primary species harvested were aspen, paper birch, and mixed hardwood. Based on past OI notes the aspen and hardwood component was wiped out of the stand by browse. Even now there is evidence of very heavy browse on almost any deciduous species present including beech and sweetfern (the exception is cherry). As a result the stand is very poor quality with a lot of open grown stems. There are a few patches with denser stocking along the edges of the stand but those are the only places of decent stem quality. A few larger red and sugar maple were left over from the original harvest. Spruce/fir component is mostly along the southeastern edge adjacent to stand 13. Average ba/acre from 9 plots = 57 square feet.

S t	Pigeon River Country		Report 7	– Forested	Stands Compartment: 39 Year of Entry: 2020	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	4134 - Aspen, Spruce/Fir	Poletimber Well	6.0	36	81-110	Stand cut in 1982 by Champion as part of 1-22 Aspen, #53-023- 80-01. Primary species harvested were aspen, paper birch, and mixed hardwood. Aspen regenerated well as compared to the adjacent stands that were cut at the same time. This stand sits in somewhat of a valley and a small drainage runs north-south disappearing at the south end. Trace of sugar maple and white spruce. Average ba/acre from 6 plots = 88 square feet. Will be ready for a final harvest next entry.
14	4130 - Aspen	Poletimber Well	5.6	36	51-80	Stand cut in 1982 by Champion as part of 1-22 Aspen, #53-023- 80-01. Primary species harvested were aspen, paper birch, and mixed hardwood. Aspen came back well in this stand. A couple small areas that have a nice white pine/red pine component. Northeastern part of the stand has most of the hardwoods. Average ba/acre from 5 plots = 74 square feet. Diameters are too small to consider a final harvest at this point.
16	4119 - Mixed Northern Hardwoods	Poletimber Well	33.3	86	81-110	Pretty nice hardwood stand although stocking and quality tend to vary considerably. Largest diameters and best stocking is in the central part of the stand. Diameters decline considerably in the northern finger of the stand as well as the far southeastern end. An intermittent stream runs north/south through the eastern part of the stand originating from the L type stand to the north and travels south all the way to Old Vanderbilt Road (see 98 imagery). Stand last had a light selection harvest by Frank Barnby in 1980. Average ba/acre from 14 plots = 101 square feet. Stand will be ready for a thinning next entry. Protect intermittent stream with a 1/2-1 chain buffer on each side.
17	429 - Mixed Upland Conifers	Poletimber Medium	9.9	36	51-80	Stand cut in 1982 by Champion as part of 1-22 Aspen, #53-023- 80-01. Primary species harvested were aspen, paper birch, and mixed hardwood. This is a hardwood quality site but browse has eliminated most aspen and hardwood regeneration with the exception of a few pockets. There is an old elk exclosure in the central part of the southern half, the majority of the fencing has now fallen over. However the effectiveness of the exclosure is easily apparent as there is red maple and sugar maple regeneration in addition to fully-stocked aspen poletimber. The remainder of the stand is now dominated by conifers with a good representation of natural red pine, however overall stocking is not great and quality is quite low due to the open nature of the stand. Average ba/acre from 9 plots = 78 square feet.
18	4130 - Aspen	Sapling Poor	12.2	7	Immature	Stand cut as part of "Taxidea Mix" (#53-024-10-01), bought by AJD, roundwood harvest summer 2011. Regeneration failure because stocking levels fall below minimum guidelines for aspen. In general the south half of the stand has decent regeneration but the north finger of the stand is very poorly stocked and has been impacted by severe browsing. Unsure how much of the aspen will actually survive. Grass/sedge is starting to take over the understory in large portions. Wet drainage in south part of stand. Regen survey results; quaking aspen 1160 tpa, ironwood 180 tpa, white pine 100 tpa, beech 20 tpa, red maple 40 tpa. Aspen and white pine are the only species above the 3 foot threshold at this point to be in the overstory coverage. Black cherry is also present but will not be a merchantable tree.

S t	Pigeon River Country		Report 7	– Forested	Stands Compartment: 39 Year of Entry: 2020	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4119 - Mixed Northern Hardwoods	Sawtimber Well	9.7	102	111-140	Very nice stand of hardwoods that doesn't appear to have been thinned before. Large diameter trees are present. Some porcupine damage to the hemlock as some of it appears unhealthy. A nice vernal pond exists in the northern portion of this stand. The High Country Pathway meanders throughout. Average ba/acre from 6 plots = 140 square feet. Do not manage at this time.
21	4134 - Aspen, Spruce/Fir	Poletimber Well	26.2	36	51-80	Stand cut in 1982 by Champion as part of 1-22 Aspen, #53-023- 80-01. Primary species harvested were aspen, paper birch, and mixed hardwood. Resulting regeneration is nearly pure aspen and fir with little overstory or understory diversity. Several open areas mixed in throughout that did not regenerate well. Some wet ground is mixed in as well, this seems to be primarily in the north half. Trace of tamarack and red pine at the south end where the landing and haul road were located. Average ba/acre from 11 plots = 76 square feet. Stand should be ready for a final harvest next entry.
22	6112 - Lowland Aspen	Poletimber Well	6.4	53	111-140	A good portion of this stand is wet, imagery shows somewhat of a north/south drainage pattern. The NE corner and far southern end are very wet. Western and northwestern portions transition up to higher ground. A few larger, older trees are mixed in, must have been missed when the stand was originally cut. Trace of hemlock. Average ba/acre from 8 plots = 115 square feet. Due to the wet soils and small acreage, a non-commercial cut would probably be best here.
23	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.2	86	81-110	Stand had all the aspen removed at one point. Hardwoods are moderate quality but still quite small for a thinning. Long and narrow north-south running drainage along the northwestern edge of the stand (see 98DOQ imagery), a few small yellow birch are mixed in here. Remainder of the stand is gently rolling with a few elongated small ridges. Trace of red oak. Average ba/acre from 6 plots = 110 square feet. High Country Pathway travels through a large portion of the stand. Let the stand grow some and then manage for hardwoods.
24	4111 - S.Maple, Hard Mast Association	Sawtimber Well	113.3	86	81-110	Nice hardwood stand that was last harvested in 1992 by Gary Haskill in the Section 22 Tri-Block sale, #53-009-90-01. All aspen, birch, and ironwood were removed as well as some marked hardwoods. As a result of the species removal, residual BA's are quite variable, and tend to be lowest along the eastern and western edges, and highest in the interior. Many areas are due to be thinned but as of this time the stand averages only 107 square feet from 22 plots. High quality, large diameter oak throughout, although most prevalent in the NW corner. Red and white pine are mostly along the edges. East half of stand is on a gentle east facing downslope. Middle of the stand is on a slight ridgetop. Evidence of high elk use. Should be ready for a thinning next entry.

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Report 7 – Forested Stands

Compartment: 39 Year of Entry: 2020 OF NATURA

t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4130 - Aspen	Sapling Poor	5.9	7	Immature	 "Taxidea Mix" (#53-024-10-01) harvested summer 2011. AJD, roundwood job. Stand fails regeneration standards for an aspen management objective. Deer and elk browse is having a significant effect on the southern 2/3rds of the stand. Most species are showing heavy browse damage. Majority of the bigtooth aspen is either dead or close to it. The far northern 1/3rd of the stand has a clump of quaking aspen that surpassed the browse and is now 10-20 feet tall. Encroachment of grass and sedge in heavily browsed areas. Likely another U type at next inventory cycle. What to do here? Cut volumes were 18 mbf basswood, 3 cords sugar maple, 15 cords red maple, 23 cords basswood, 8 cords white pine, 13 cords ironwood, 71 cords aspen. 05/31/2016 Regen Survey Results - BTA 733 TPA (4.5'), QA 233 TPA (2.5'), IW 300 TPA (2'), BW 67 TPA (1'), RO 67 TPA (1.5').
27	4130 - Aspen	Poletimber Well	3.8	36	51-80	Stand cut in 1982 by Champion as part of 1-22 Aspen, #53-023- 80-01. Regeneration came back well here. Nice component of sugar maple regeneration is present, especially in the northwestern part of the stand, some oak is present as well. Average ba/acre from 5 plots = 70 square feet.
28	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	5.2	88	141-170	Stand was put up as part of Screaming Pine (#53-021-10-01) but this unit was never cut and was dropped from the sale. Nice red pine although there tends to be some variability in diameters. Far west end of the stand is almost pure red pine, the remainder has scattered aspen and white pine mixed in. Site appears to be somewhat of a transition between hardwoods and lower quality soils. There used to be a component of jack pine but that is now all dead. Average ba/acre from 8 plots = 160 square feet.
29	4119 - Mixed Northern Hardwoods	Sawtimber Well	11.6	102	111-140	Nice hardwood stand with some big diameters. Looks to me like a second age class of large, old trees is present. Quality and stocking decline somewhat east of Tin Shanty Road, this is where the beech and ironwood understory pick up. Most overstory beech showing signs of BBD. Stand was last thinned in 1991. Thin next entry when the adjacent stand 41 to the south is ready. Protect the large hemlock pocket in the southeast corner. Current average ba/acre from 9 plots = 133 square feet. Trace of red pine.
30	42200 - Natural White Pine	Sawtimber Poor	4.1	88	51-80	Stand of supercanopy white pine (including some very large trees) with a well developed understory. The balsam fir and white pine regeneration is approaching poletimber size while the remaining species are mostly still saplings. Stand was last cut in 1992 by Alan Lamberson as part of the Mile Long Pine sale, #53-020-90-01. All species were cut except for unmarked red and white pine, and all hemlock, red oak, and white oak. Stand sits on an upland/lowland transition. Trace of residual cedar and hemlock. Average ba/acre from 6 plots = 63 square feet. Road 84 travels through the middle of the stand.

S t	Pigeon River Country		Report 7	– Forested	Stands	Compartment: 39 Year of Entry: 2020	DR	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	A MICHIGAN
31	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.1	102	141-170	hemlock mixed in thro to be much larger decrease at the far does not appear ve porcupine damage damage to younger m All ash dead from EAI the NW part of the sta	tocked hardwood stand with pr ughout. Diameters on the hard in the northwest part of the sta southeastern end. Some of the ry healthy. I suspect it's likely a e to the crowns as I noticed po aple saplings. BBD on most o 3. Large stick nest in a 16" sug nd. High Country Pathway trav half. Average ba/acre from 6 j square feet.	lwoods tend and and e hemlock a result of ckets of f the beech. gar maple in vels through
32	4130 - Aspen	Sapling Poor	22.8	7	Immature	roundwood job. Scatte a nice job of laying d Cut volumes were 9 i basswood, 5 mbf pap red maple, 8 cords ba b -Regen failure. Dee impact on the stan sprouted have been sugar maple, basswo the stand but these s the regeneration. So that even after 6 ye Sedge and grass en areas. Black cherry al more than shrub qualit have made it past the Tin Sha -05/31/2016 Regen S (7'), WA 150 TPA (2'')	-024-10-01), cut summer 201- ered wet ground throughout, of own slash. Rutting impacts ve mbf sugar maple. 6 mbf red m er birch, 77 cords sugar maple sswood, 17 cords beech, 137 irch, 179 cords aspen. r and elk browse have had a s nd. Any deciduous species that hit the hardest. Significant cor ood, and paper birch were harv, pecies have mostly been elimi me seedlings are present but ears they are no more than 1-2 croachment in the most heavil bundant in spots but it will not ty. A few clumps of QA here are browse, seem to be most pre inty Road. What to do here? Survey - QA 633 TPA (4.5'), B ⁵ , RM 250 TPA (2.5'), PB 17 T TPA (2'), BF 17 TPA (4'), RO 1	berators did ry minimal. aple, 6 mbf , 139 cords cords paper significant it stump nponent of rested from nated from it's notable feet tall. y browsed be anything nd there that valent near TA 50 TPA PA (1'), BE
33	4130 - Aspen	Poletimber Well	2.1	58	81-110	few areas of wet grou oak. Average ba/acre to manage comm	and in 1960, objective was to nd in the east half. Trace of ce from 3 plots = 110 square fee ercially on it's own. Another W I treatment would be best here	dar and red t. Too small LD non-
34	4319 - Mixed Upland Forest	Sawtimber Well	69.0	85	111-140	numerous pockets of mix but dominated by hardwoods tend to var both upland and low component of some of to EAB. Hemlock appe pine, yellow birch, sp use. Average ba/ad	st have a perched water table wet ground throughout. Diver hemlock and red maple. Diam y quite a bit. Cedar componer land areas. Black ash used to the wet pockets but it is now ears healthy for the most part. bruce, and elm. Very heavy de cre from 16 plots = 123 square to sensitive soils and the spec	se species eters on the it is found in be a large all dead due Trace of red er and elk i feet. No
35	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.3	49	81-110	the stand, most of th are a few patches of Scattered log-size to these were mostly point red maple and sugation component is best in of the stand. The regenerated and is	a mixed bag of species. Road e hemlock is south of the road nice young hardwood regener rees were left from the previou he, oak, and hemlock but there r maple sawlogs present as w the southwest corner and nort ere is a small amount of red oa now in the poletimber/small sa spruce. Average ba/acre from square feet.	and there ation here. s harvest, e are some ell. Aspen hern edges ak that wlog size

S t	Pigeon River Country		Report 7	– Forested	I Stands Compartment: 39 Year of Entry: 2020	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	4119 - Mixed Northern Hardwoods	Poletimber Well	15.6	93	81-110	Moderate quality hardwood stand dominated by red maple. Quality is best in the interior of the stand but declines along the edges as cover types start to transition. The far south end transitions to more of a red maple/aspen/birch type. There are some very large white pine in this part of the stand. Some areas along the south and west look like they may have had a partial harvest at one point as there are some clumps of smaller stems. This includes a small percentage of red oak ingrowth which are now in the poletimber/small sawlog size classes. Northeast corner of stand has a small wet area with white pine in it. Average ba/acre from 8 plots = 98 square feet. Stand may potentially be ready for a thinning next entry. The High Country Pathway passes through the middle of the stand.
37	42100 - Planted White Pine	Sawtimber Well	45.5	88	111-140	Stand was cut in 1992 by Alan Lamberson as part of the Mile Long Pine sale, #53-020-90-01. All species cut except for red and white pine, hemlock, red oak, and white oak. Residual stand is very high quality, lots of big diameters and very tall trees. The red pine component tends to be somewhat clumpy and is not uniform throughout. Regeneration is mostly white pine, fir and undesirable hardwoods. There are some nice patches of white pine regeneration present. In many areas the hardwood understory is below 5 feet due to the high browse pressure. One large stick nest found and there are likely more as this is good goshawk habitat. Vernal pool on the southwest side of the stand (see OFS layer). Rolling terrain. Average ba/acre from 12 plots = 117 square feet. Retain the residual supercanopy trees indefinitely after harvest and manage for a mixed pine stand in the future.
38	4115 - Y.Birch, Hemlock NH	Poletimber Well	37.8	93	81-110	Royal Hardwoods, #53-012-10-01, sale cut in the winter of 2012- 13 by Tulgestka. Quite a bit of damage when the producer first started, but got much better as the sale went on. Hemlock pockets are scattered throughout and the marker went around most of these. High Country Pathway travels through the stand and BA was left a little higher around this. This is a definite regeneration failure as several canopy gaps were made but deer and elk browse has been extremely heavy, even the beech and striped maple show signs of heavy browse damage. A few small areas around the G type stand were excluded from the harvest, this is where most of the fir is located. A thin strip of hemlock, fir, and cedar is adjacent to Tin Shanty Road and there is a little bit of wet ground mixed in. Most beech shows sign of BBD. Average ba/acre from 12 plots = 105 square feet.
39	429 - Mixed Upland Conifers	Sawtimber Well	24.5	88	111-140	Nice mixed species stand with some large diameter white pine present. Red pine component is mostly in the north half. Hardwoods and aspen are intermixed throughout but most common along the east/northeast edges. Hemlock pockets scattered throughout but more common along the south stand line. Far southern finger may have a little bit of seasonally wet ground. Trace of white spruce. Average ba/acre from 9 plots = 138 square feet. The High Country Pathway passes through the southwestern portion of the stand.

S t	Pigeon River Country		Report 7	– Forested	Stands	Compartment: 39 Year of Entry: 2020	OF NATURAL PRODUCE	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	. MICHIGAN .
40	42200 - Natural White Pine	Sapling Well	18.9	17	Immature	clearcut as part of Pi AJD. Records inc January and February left. Browse has elin the stand. The few understory are still be regeneration has bee entire portion of the s pine regeneratic component of natural the white pine but I t Should be a very nice	nixed pine/hardwood/aspen sta ne Island Block, #53-010-00-07 licate it was cut by a shortwood y of 2001. Two small retention i ninated almost all deciduous sp ironwood and beech that show eing heavily browsed. However en excellent and is very dense tand I walked through. May be on I've ever seen. There is also red pine. Some weevil damag hink the dense stocking will he e stand in the future. Trace of v red maple. Rolling terrain.	I, bought by d crew in islands were becies from y up in the r, white pine through the the thickest a nice e noticed on lp correct it.
41	4119 - Mixed Northern Hardwoods	Poletimber Well	36.0	99	81-110	Dominated by pol diameter cull/wildlif eastern half. Old no place here in 1966 following that harvest along the southern eo maple/pine type. P Some areas are he There is a small are road that looks sea located. Gently rolling Average ba/acre fro need of a TSI to get next entry. Do not m the intense browse	ardwood stand but relatively lov etimber but there are quite a fe e trees as wel. Best stem quali- otes indicate a heavy partial ha base of the small aspen clones reg- and are scattered throughout. dge start to transition to more of ockets of hemlock scattered th avy to beech, most appear to f ea in the southwest corner adja sonally wet and is where most g terrain. 2-3 old logging roads om 11 plots = 109 square feet. rid of the poor poletimber, shou anage using even-aged technic pressure in the area, as evider jacent stand to the west.	ew larger ty is in the rvest took generated A few areas of an oak/red roughout. nave BBD. cent to the of the fir is are present. Stand is in ald be ready gues due to
42	42200 - Natural White Pine	Sawtimber Well	10.2	88	141-170	you move south it tra white pine and pocke Trace of beech and nests were found. A	r of the stand looks like planted ansitions to a natural stand with ets of hemlock and hardwoods bigtooth aspen in the overstory verage ba/acre from 9 plots = uality stand that should be left of for the time being.	n very large intermixed. v. Two stick 156 square
43	42200 - Natural White Pine	Poletimber Well	9.4	52	81-110	Jack Pine sale. Al removed as well as result the stand is tw is some variation in o pine regeneration wa Red pine tends to b the east half of the s Trace of paper birch	v George Kimball as part of the l jack pine, aspen, and hardwo s some marked red and white p o-aged. White pine came back diameters as I'm guessing adva s protected when the stand wa e in clumps and seems more p stand. Far eastern end is more , beech, balsam poplar, and wh acre from 8 plots = 102 square	ods were bine. As a well. There anced white s harvested. revalent in of an MC9. nite spruce.

S t	Pigeon River Country Mgt. Unit			Report 7	– Forested	Stands Compartment: 39 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	42110 - Planted Red Pine	Sawtimber Poor	14.1	88	1-50	Stand harvested as part of Screaming Pine (#53-021-10-01), whole-tree harvest by Randy Nash, cut in the spring of 2014. One retention pocket left. Sale cut volumes were 51 mbf white pine, 143 mbf red pine, 104 cords white pine, 71 cords red pine. Scattered leave trees left, average ba/acre from 6 plots = 35 square feet.
						Regeneration is sparse at this point and appears to be primarily red maple, beech, and ironwood, most of which is only about 1-2 feet tall and heavily browsed. Stand prescription comments call for scarification.
						Original OI Rx comments: Scarify the stand after cutting if harvest doesn't do it. RED AND WHITE PINE AS WELL AS SOME ASPEN AND RED MAPLE WOULD BE EXPECTED TO REGENERATE THE STAND.
45	4319 - Mixed Upland Forest	Poletimber Well	8.5	36	51-80	Stand cut in 1982 as part of the sale Hardwood Trail Block, bought by Rhinold Schleben, cut by Tom Catalano. All species cut except for oak and hemlock, a few larger aspen and white pine were left, mainly along the western edge. White pine as well as red and sugar maple have regenerated well. Most of the sugar maple stump sprouts are still in the sapling size class so I'm guessing the current poletimber were small trees that were not cut during the original harvest. Many areas are heavy to red maple saplings and as the stand continues to grow it will increase in prevalence in the canopy. Rolling terrain with a few steep slopes. Average ba/acre from 7 plots = 71 square feet.
46	42140 - Planted Mixed Pine	Sawtimber Well	17.5	88	111-140	Very nice mixed pine stand. Diameters tend to be larger in the east/northeast part of the stand. Many of the larger trees appear to be of natural origin. Stand was last cut in 1992 by Alan Lamberson as part of the Mile Long Pine sale, #53-020-90-01. All species were cut except for unmarked red and white pine, hemlock, and red oak. Regeneration came back well to white pine and there isn't nearly as much of a hardwood component as the W9 stand to the south. Areas with lower stocking have some nice patches of other species regeneration as well. Average ba/acre from 9 plots = 120 square feet. Drainage at the far south end which forms a small pond next to the road. Retain the residual supercanopy trees indefinitely after harvest and manage for a mixed pine stand in the future.
47	4136 - Aspen, Mixed Conifer	Poletimber Well	11.4	37	81-110	Stand clearcut in 1982 as part of the sale Hardwood Trail Block, bought by Rhinold Schleben, cut by Tom Catalano. All species cut except for oak and hemlock and a few supercanopy red and white pine. Resulting stand is highly variable. Aspen clones are mostly in the northwest and southeast quarters of the stand. A large vein of hemlock runs north-south through the middle of the stand and not much is growing underneath it. Southwest corner of the stand has a lot of the white pine component. Average ba/acre from 7 plots = 110 square feet. Stand should be ready for a final harvest next entry.
48	4134 - Aspen, Spruce/Fir	Poletimber Well	32.6	36	111-140	Good looking stand of young aspen poletimber. Some areas heavy to fir. Stand was clearcut in 1982 as part of the sale Hardwood Trail Block, bought by Rhinold Schleben, cut by Tom Catalano. Trace of paper birch and black spruce poletimber as well as a few scattered log-size hardwoods (sugar maple, basswood, elm, hemlock). A couple patches of residual cedar were left as well. Stand transitions to wet ground along the east edge. Rolling terrain with an east-facing aspect and a series of ridges and valleys. Average ba/acre from 13 plots = 117 square feet. Stand will be ready for a final harvest next entry.

S t	Pigeon River Country Mgt. Unit			Report 7	– Forested	Stands Compartment: 39 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	4119 - Mixed Northern Hardwoods	Poletimber Well	10.0	96	81-110	Mediocre hardwood stand. A lot of smaller maple stems with a component of larger oak and pine. Some clumps of hemlock mostly at the north end. Steeper slopes present at the north end as well. Some areas may have had a partial harvest when the adjacent stands to the east were cut. Average ba/acre from 8 plots = 105 square feet. No management at this time.
						Intersection of Roads 84 and 85 in this stand, the Shore-to- Shore Horse trail passes through as well.
50	4319 - Mixed Upland Forest	Poletimber Well	9.1	36	111-140	Stand cut in 1982 as part of the sale Hardwood Trail Block, bought by Rhinold Schleben, cut by Tom Catalano. All species cut except for oak and hemlock. A few scattered residual hardwoods were left as there are a couple larger paper birch, basswood, and sugar maple mixed in (but overall rare). The eastern edge of the stand lies on a steep side slope. The remainder is on top of a ridge and flat. Aspen component is best in the southeast and southwest portions of the stand. Average ba/acre from 8 plots = 116 square feet.
52	6139 - Mixed Lowland Forest	Sapling Well	9.9	26	Immature	Stand cut in 1992 by James Burkhart in the Hardwood Creek Southwest sale, #53-021-90-01. Volumes harvested were as follows: 59 cords and 17 mbf of cedar, 53 cords and 3 mbf of spruce, 7 cords of fir, 9 cords of aspen, and 6 cords of mixed hardwood. A few areas of patchy stocking but for the most part the stand has regenerated well, with the exception of cedar, which is now absent from the stand. Nice representation of paper birch. Harvest lines went very close to Hardwood Creek which was likely the cause for the subsequent beaver flooding of stand 51.
53	6120 - Lowland Cedar	Poletimber Well	141.2	128	141-170	Large swamp conifer stand of varying quality. Some areas of low quality and trees that appear stagnant. Other areas of dense stocking and high quality cedar and spruce. Cedar is for the most part healthy and not much decline was noticed. Hardwood Creek meanders throughout the stand. Understory is mostly sphagnum and Labrador tea. Average ba/acre from 13 plots = 158 square feet. Quite a bit of deer and elk activity throughout the stand.
54	4319 - Mixed Upland Forest	Sawtimber Well	10.2	88	111-140	Nice natural pine stand with a large component of red maple. Similar to adjacent stands in the area, this stand had a partial harvest in 1968. Somewhat variable composition as there are a few areas with more hardwoods than pine. Some large diameter, old trees are present, mostly white and red pine. White pine poletimber is mostly low quality and overtopped. Trace of balsam fir, white spruce, and jack pine in the overstory. Average ba/acre from 7 plots = 117 square feet. Central and northeastern part of the stand sits on somewhat of a knob, the remainder is mostly flat or on a slight side slope.
55	4134 - Aspen, Spruce/Fir	Poletimber Well	3.6	38	111-140	Pretty good diameters for aspen of this age. Fir is a large component of the canopy, however a lot of it has blown over. Stand sits on somewhat of a ridge overlooking lower ground to the west. Trace of upland cedar on the far western edge. Average ba/acre from 6 plots = 133 square feet. Stand should have been cut when the adjacent stand to the west was, as it is very small to manage on it's own. It is still young though and will hold for many years.

S t	Pigeon River Country		Report 7	– Forested	I Stands Compartment: 39 Year of Entry: 2020	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	42200 - Natural White Pine	Sawtimber Well	19.6	88	111-140	Very nice natural stand with a variety of white pine diameters including some very large trees. Heavy balsam fir understory is starting to recruit into the overstory. A few natural canopy gaps have been created from blowdown. White pine has a lot of lichen growing on it. Trace of red oak and paper birch. There may be a little bit of wet ground along the west edge where the stand transitions into the swamp. Average ba/acre from 10 plots = 127 square feet.
58	42290 - Natural Mixed Pine	Poletimber Well	15.8	48	81-110	Conifer dominated stand of moderate to high quality poletimber. Variety of sizes of white pine as the previous harvest must have left some scattered residual. Fir seems to increase in canopy percentage further south. Mostly flat terrain. Average ba/acre from 5 plots = 86 square feet. Let the white pine grow for several more entries.
59	6124 - Lowland Spruce- Fir	Poletimber Medium	17.4	37	51-80	Stand cut by Champion in 1981. Old OI notes indicate there was some beaver damage along the west side of the stand which likely reduced the aspen abundance. Mix of upland hummocks and lowland. Lot of nannyberry, although heavily browsed in areas. A few very wet areas that are poorly stocked. Some scattered larger red maple are mixed in, more so in the far north end. Average ba/acre from 6 plots = 80 square feet.
60	429 - Mixed Upland Conifers	Poletimber Well	4.8	47	111-140	Aspen more dominant in the W/NW half, quality and abundance decrease in the rest of the stand. A couple of larger jack pine, white pine, and red pine are scattered throughout. A lot of porcupine damage on the jack pine. Stand lies at the base of a small ridge. Mostly upland but there may be a few small areas of seasonally wet ground. Average ba/acre from 4 plots = 118 square feet.
61	42290 - Natural Mixed Pine	Poletimber Well	11.4	57	111-140	Stand was cut in 1961, a scattered residual of larger red and white pine were left. Pretty decent stand of poletimber although quite a few of the jack pine have broken tops and are dead. As a a result of that there is a good amount of smaller coarse woody debris. Some porcupine damage to the jack pine, more so along the west/southwest line. Oak, maple, and bigtooth aspen mostly along the northeast edge. Trace of paper birch. Flat terrain. Average ba/acre from 7 plots = 121 square feet. Let grow and manage for the white pine.
62	42200 - Natural White Pine	Poletimber Well	13.9	57	81-110	Stand was cut in 1961 with a scattered residual of larger white pine and red pine left. Came back nicely to white pine. Fir component seems to increase along the southwest side. Although rare, there is a component of overstory white oak. Trace of paper birch, bigtooth aspen, and white spruce. Flat terrain. Average ba/acre from 6 plots = 110 square feet. Let this stand continue to grow and then thin.
63	42290 - Natural Mixed Pine	Sawtimber Well	11.1	88	81-110	Somewhat variable stand that tends to alternate between patches of dense MC9 and other areas where white pine poletimber is dominant. Old OI notes indicate a partial harvest took place here in 1968 which is the year of origin for the smaller timber. East side of stand is on a slight slope. Hardwoods pick up along the east line. Average ba/acre from 7 plots = 103 square feet. Retain until the second age class matures.

S t	Pigeon River Country		Report 7	– Forested	Stands	Compartment: 39 Year of Entry: 2020	DNR DNR	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	A MICHIGAN .
64	42200 - Natural White Pine	Sawtimber Medium	54.9	88	81-110	bought by Hydrol quite heavily. Site q go, as such so doe	as part of Kerr Mason Pine, #53- ake, cut by Precision. Some area uality increase the further north a so the quality of white pine. Trees th half. Average ba/acre from 11 square feet.	as thinned and east you s tend to be
						white pine. Leave red pine as well	8 thin and do group selection to a most of aspen for wildlife. Whit as aspen and some hardwoods ected to regenerate the stand.	te jack and
65	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	20.9	88	141-170	pine tends to be cl south half of the overall in the south have been partiall stems. Maple most stems in the south oak and hemlock. feet. Let the map manage using an u	d of natural pine and mixed hard umpy in nature and is more prev stand. Denser stocking and bett th half. North half has a few area y harvested as there are pockets ly moderate quality but there are . Series of small N-S ridges. Tra Average ba/acre from 8 plots = - ole component grow a little more neven-aged or two-aged approar diversity and large diameter trees	alent in the er quality s that may s of smaller some nicer ce of white 159 square and then ch, retaining
66	42290 - Natural Mixed Pine	Sawtimber Poor	13.1	88	1-50	017-10-01, bought residual damage to maple and bee Evidence of heav wasn't much scarifid will seed in. Howe see if regen will res ba/acre from 5 p	of Kerr Mason Pine in summer of by Hydrolake, cut by Precision. C the pine. Current regeneration is the with a little white pine and bal by browse on the deciduous spec- cation that took place so I doubt ver, let the stand go a couple mo- spond and then do a regen surver lots = 44 square feet. There is a in the north-central part of the st	Quite a bit of s mostly red Isam fir. cies.There any red pine ore years to ey. Average bowl-like
							dead oak in the stand, mostly ne onsult with Forest Health Special this is oak wilt.	
67	4319 - Mixed Upland Forest	Sawtimber Well	7.8	88	111-140	large white pine are OI notes indicate a is evident with sor percentage of oak t now in the poletime more prevalent in th 127 square feet. manage using an	al pine and other mixed species. present. Red maple is moderate partial harvest was done here in ne areas of smaller stems. There hat regenerated following that ha per/small sawlog size classes. Fin ne north half. Average ba/acre fro Let the maple grow some more uneven-aged or two-aged approa- diversity and the large white pine	e quality. Old 1969 which e is a small arvest and is r understory om 6 plots = and then ach. Retain
68	4119 - Mixed Northern Hardwoods	Poletimber Well	17.7	73	111-140	salvage beech and Wildlife over conce	osed to harvest these stands Ou d thin remaining trees. Proposal erns about browse and regenera s. Do not prescribe until deer and issues are resolved.	rejected by tion. Agree
						poletimber, recor aspen component most of this car opening. Beech be stand, most have B A lot of the large wildlife trees. West	ate quality hardwoods with a lot of ds indicate it was heavily cut in 7 is what regenerated following th h be found along the edges of the ecomes heavy in the northeast fi BD although I did notice a few w er beech have significant rot and of the road has a lot of smaller s average ba/acre from 10 plots = 1 feet.	1968. The at harvest, e G type nger of the ithout scale. are good stems and is

S t	Pigeon River Country	/ Mgt. Unit		Report 7	– Forested	Stands Compartment: 39 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	4111 - S.Maple, Hard Mast Association	Sawtimber Well	54.4	88	111-140	08/13/2018 Variance was proposed to harvest these stands Out- of-YOE to salvage beech and thin remaining trees. Proposal rejected by Wildlife over concerns about browse and regeneration. Agree with these concerns. Do not prescribe until deer and elk browse issues are resolved.
						Old OI notes indicate this stand was heavily cut in during the late 60's. It has recovered from that past cutting and is now a high quality stand for the most part. There are a few areas of lower stocking and smaller stems scattered here and there, most notably in the finger that extends east. Site quality starts to decline in the south/southwest portions of the stand and transitions to more of a pine/oak/red maple type. A few areas are heavy to beech and BBD was noticed on about 1/2 of them. A few of the younger ash appear alive but all of the larger ash are dead from EAB. Gently rolling terrain. A few small areas of old blowdown. Trace of white pine and hemlock. Evidence of heavy browse in some areas, as there is a distinct line of 2-3 feet tall ironwood and beech. A couple of old roads travel through the stand. Average ba/acre from 13 plots = 111 square feet.
70	4119 - Mixed Northern Hardwoods	Sawtimber Well	22.1	88	111-140	08/13/2018 Variance was proposed to harvest these stands Out- of-YOE to salvage beech and thin remaining trees. Proposal rejected by Wildlife over concerns about browse and regeneration. Agree with these concerns. Do not prescribe until deer and elk browse issues are resolved.
						Old OI notes indicate this stand was heavily cut in during the late 1960's. This is evident more in the south half where there are areas of smaller stems mixed in. The remainder of the stand is a mixed bag of everything. There are a few nice pockets of oak and hardwoods, more so along the east and west edges. Beech becomes dominant in the north half, noticed BBD on most. Quite a few large diameter beech wildlife trees. Pockets of hemlock throughout, some porcupine damage was noticed. Trace of white oak at the south end. Rolling terrain. Site quality decreases the further south you go and transitions to more of a pine-oak type. A couple of old roads travel throughout. Average ba/acre from 9 plots = 120 square feet.
71	42200 - Natural White Pine	Sawtimber Well	21.0	88	141-170	A nice stand of white pine. Even though no sale records exist it appears as if this has been thinned before. No planting records found for this stand although I'm betting it's likely planted. Trace of white oak. Hardwoods are mostly along the edges. Large stick nest found in the central portion, unsure if active, assuming it's goshawk. Heavy deer and elk use. Average ba/acre from 9 plots = 143 square feet.
74	4199 - Other Mixed Upland Deciduous	Poletimber Well	25.3	75	81-110	A diverse stand that is a mixed bag of pretty much everything. Hardwood quality is only mediocre although there are a few pockets of nicer poletimber in the central part of the stand. Some nice pockets of pine as well, more so in the south half. Small aspen clones are scattered throughout, which regenerated after the stand was heavily cut in 1968. A large drainage/vernal pool complex is present in the northeast end. Trace of elm. Site quality decreases along the south and west ends. Gently rolling terrain. An old road cuts north-south through the eastern half. Average ba/acre from 7 plots = 91 square feet per acre. Let this stand grow and manage for mixed hardwoods/oak/pine.

S t	Pigeon River Country	v Mgt. Unit		Report 7	– Forested	Stands Compartment: 39 Year of Entry: 2020	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	HIGAN . S
75	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.0	102	111-140	Nice, diverse hardwood stand with big diameters. Stand was thinned when the adjacent stand to the northeast was, a we drainage/vernal pool complex separates the stands along th northeastern boundary. Cuts have taken place on the remain sides of this stand which along with the small acreage does make management very feasible here. Far southern end of t stand is wet with mostly paper birch and small maple. BBD of most of the beech. Average ba/acre from 5 plots = 136 squa feet.	et ne ing n't he on
76	4111 - S.Maple, Hard Mast Association	Sawtimber Well	50.0	93	111-140	08/13/2018 Variance was proposed to harvest these stands 0 of-YOE to salvage beech and thin remaining trees. Proposa rejected by Wildlife over concerns about browse and regeneration. Agree with these concerns. Do not prescribe un deer and elk browse issues are resolved.	al
						Nice stand of hardwoods that hasn't been thinned for a while ever. There is a large seep/vernal pool/drainage complex in t west/northwest part of the stand. Part of this seems to go do to the lake, another finger drains south into the maintained wildlife opening. Pit and mound topography is evident in the wet areas and stocking and diameters are much lower. An o railroad grade runs north-south at the far eastern end. Old roa are present throughout. A few larger ash may be hanging on Trace of hemlock, white pine, elm, and yellow birch. The hemlock is unhealthy and has a lot of porcupine damage. Average ba/acre from 14 plots = 116 square feet.	the wn se old ads n.
77	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	0.9	88	111-140	Small stand of large diameter red pine. Old notes indicated the 40 was planted with red pine by the CCC but this is the only pocket that survived. Some of the ash are hanging on. Trace white pine, BAM, and red maple. Average ba/acre from 3 plot 140 square feet.	y e of
78	4119 - Mixed Northern Hardwoods	Poletimber Well	6.1	82	81-110	Moderate quality hardwood stand, oak displays the best grow Site quality seems to decline the further east you travel. Star was heavily cut during the late 60's and is the source of the smaller aspen. Trace of red pine, white pine, and hemlock. Average ba/acre from 5 plots = 96 square feet.	nd e
81	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	9.7	60	1-50	Sparsely stocked stand surrounding Lloyd Lake. There used be a much larger component of cedar but it is mostly dead no It looks like this stand periodically floods dependent on the wa levels of Lloyd Lake. The portion of the stand that extends ea is mostly a wetland and stops at an old railroad grade. Tamarack is more dominant on the north and east sides of th stand. The west side has most of the birch and maple, includ some nice yellow birch regeneration. In addition to the alder a cattails, sphagnum and leatherleaf are widespread at the grou level. Average ba/acre from 9 plots = 28 square feet.	ow. ater ast he ling and
83	4119 - Mixed Northern Hardwoods	Poletimber Well	37.2	93	81-110	For the most part this is a high quality northern hardwood poletimber stand. Diameters tend to vary quite a bit, with sor areas where the stems are quite small. Most beech has BBD. ash is dead from EAB, although it was a minor component t start with. Relatively flat throughout. Several vernal pools ar present. Trace of red pine and hemlock. Some areas with a barren understory. Several old roads appear to meander through this stand. Average ba/acre from 9 plots = 107 squa feet. Stand should be ready for a thinning next entry.	me . All to re a

S t	Pigeon River Country	∕ Mgt. Unit		Report 7	– Forested	Stands Compartment: 39 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
84	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	4.9	88	111-140	Nice stand of oak and pine that seems to be a transition between the hardwoods to the east and pine dominated stands to the west. A few small patches of hemlock, more so in the north half. Areas of smaller red maple are mixed in, possibly two- aged. Dense white pine understory in spots. Trace of white oak. Average ba/acre from 5 plots = 112 square feet.
85	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	4.5	88	111-140	Nice stand of pine that appears to have been planted as the red pine is oriented in rows. More white pine at the south end. Old OI notes indicate this stand was thinned at some time although the year is not given. Larger hardwoods mixed in along the edges. Advanced hardwood regen is mixed in, most is undesirable ironwood and ash but there are a few small pockets of sugar maple. Trace of white oak and paper birch. A small area of blowdown in the center. Average ba/acre from 5 plots = 150 square feet.
86	4111 - S.Maple, Hard Mast Association	Sawtimber Well	102.7	93	81-110	High quality northern hardwood stand with some large diameter trees. Last thinned in 2003 by Watson Forest Products in the sale Lloyd Lake Hardwoods, #53-013-01-01. BA's tend to vary somewhat as some areas were thinned heavier than others. Some old blowdown in the thin middle part of the stand. Ash used to be about 10 square feet of basal area but it is now all dead and mostly on the ground. Thick understory of undesirable species. Heavy deer and elk use. Average ba/acre from 15 plots = 94 square feet. Stand won't be ready for a thinning for another 20 years.
87	4111 - S.Maple, Hard Mast Association	Sawtimber Well	79.0	93	81-110	Stand cut in 1992 by AJD in the sale Meridian Line Hardwoods, #53-003-90-01. Selection harvest, primarily pulpwood removed. Nice looking stand with some high quality oak. Stand was evaluated in 2013 during the ash and beech initiative, QD was collected at that time and is reflected in the canopy and BA numbers. Stand was not salvaged as there was only about 10 square feet of white ash and limited beech. The ash was primarily in the southern half of the stand and with all of it being dead, the BA now averages about 100 square feet from 12 prism plots. Stand should be ready for a thinning next entry.
90	42110 - Planted Red Pine	Sawtimber Poor	7.8	88	1-50	 Stand harvested in spring of 2014, Screaming Pine (#53-021-10-01), cut by Randy Nash, whole-tree harvest. Cut volumes were 18 mbf white pine, 64 mbf red pine, 54 cords white pine, 38 cords red pine. OI Rx comments: Red and white pine as well as red maple and possibly some oak would be expected to regenerate the stand. Scattered leave trees were left and residual ba/acre from 6 plots = 32 square feet. Regeneration up to this point is not looking very good but more seedlings are showing up as compared to stand 89 to the south.
						 It passes as a mixed stand (>600 TPA) due to the red maple seedlings which are mostly along the west side of the stand. Browse is definitely occurring as most deciduous species are still only about a foot tall after 4 years of growth. Deer and elk appear to be using the stand a lot. Heavily scarified landing and skid trails have some red pine seeding in. Regen survey results from 6 1/100th acre plots (average height in parentheses): white pine 150 TPA (1'), red maple 583 TPA (1'), beech 133 TPA (1.5'), ironwood 17 TPA (2'), red pine 17 TPA (1'), white spruce 17 TPA (1').

S t	Pigeon River Country	/ Mgt. Unit		Report 7	– Forested	Stands Compartment: 39 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
91	4319 - Mixed Upland Forest	Sapling Well	10.6	26	Immature	Stand was cut in 1992 by Alan Lamberson as part of the Mile Long Pine sale, #53-020-90-01. Stand regenerated well to a wide mix of species. Aspen is not uniform throughout, occurs in a few scattered clumps. Supercanopy of white pine includes some very large trees and tends to be more numerous in the part of the stand that is west of the road. A few large red pine and hemlock were left as well. Stand sits on an upland/lowland transition.
94	4130 - Aspen	Poletimber Well	8.5	50	81-110	Stand is currently under contract as part of the Amoebic Aspen timber sale, #53-013-15-01, bought by Precision. Stand was set up out-of-YOE and was approved through the Chapter 7 variance procedure.
95	4119 - Mixed Northern Hardwoods	Poletimber Medium	1.1	70	1-50	Stand of small, poor quality hardwoods. Wet ground interspersed throughout. A lot of blowdown and coarse woody debris, most of which appears to be from old aspen. A few of the small white ash may be hanging on. Average ba/acre from 3 plots = 40 square feet. Stand serves as retention for the surrounding stand that was cut.
96	6113 - Lowland Maple	Poletimber Medium	0.9	70	51-80	Small, wet stand dominated by red maple. Most trees are on the perimeter of the stand as there is a very wet drainage running through the middle. There used to be some black ash in this wet part but it is now all dead. Nice component of healthy yellow birch on the west/northwest side. Trace of white pine and basswood. Average ba/acre from 4 plots = 80 square feet.
97	42200 - Natural White Pine	Sawtimber Well	3.4	88	141-170	Small W9 stand with a component of small diameter hardwoods. Did not have a species removal like the adjacent stands to the east did. Trace of hemlock. Average ba/acre from 4 plots = 158 square feet. No management at this time.
98	429 - Mixed Upland Conifers	Sawtimber Well	8.8	88	141-170	Exceptional stand of natural white pine with a nice hemlock component. Very tall trees. Vernal pool/depression in the north end. I don't think this stand has ever been managed and it should remain unmanaged. Average ba/acre from 7 plots = 169 square feet.
99	4123 - Red Oak	Sawtimber Well	15.6	88	111-140	High quality oak on a hardwood site. Stand last cut in 1991 by AJD as part of Section 22 Oak sale, #53-007-90-01. All species except oak were removed, mostly hardwoods, paper birch, and aspen. Stocking tends to vary somewhat due to the species removal. Pine component is mostly on the far eastern and western edges. A small north-south running ridge travels through the center of the stand with slight slopes on each side. Average ba/acre from 8 plots = 113 square feet.
100	42290 - Natural Mixed Pine	Sawtimber Well	9.9	88	111-140	Long narrow stand that wasn't included as a part of any of the adjacent harvests. White pine appears natural but there are a few pockets dominated by red pine that must have been planted. A few small aspen clones at the far northeast end. Hardwood understory picks up in the area adjacent to stand 41, evidence of heavy browse, even on the ironwood and beech. Trace of hemlock and sugar maple. Average ba/acre from 7 plots = 126 square feet. The long, narrow shape of the stand and the fact it is situated between recently cut stands will make management here difficult. Leave as is for now and in the future manage for big trees and on a longer rotation.

S t	Pigeon River Country	^v Mgt. Unit		Report 7	– Forested	Stands Compartment: 39 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
102	4123 - Red Oak	Sawtimber Medium	11.0	88	51-80	High quality oak stand. Stand was last cut in 1991 by AJD as part of Section 22 Oak sale, #53-007-90-01. All species except oak were removed, primary harvested volumes were basswood, sugar maple, paper birch, and bigtooth aspen. Residual stocking is variable due to the species removal harvest. Regeneration in the south half of the stand is dominated by ironwood but as you move north closer to the road there are some nice pockets of red and sugar maple regeneration. Average ba/acre from 7 plots = 74 square feet.
103	4319 - Mixed Upland Forest	Sawtimber Well	6.2	88	111-140	High quality natural stand that sits on a side slope running down to the swamp. Some very large diameter white pine are present. Trace of white spruce, sugar maple, white oak, and hemlock. Average ba/acre from 7 plots = 120 square feet. Very similar stand to the north was recently harvested with
						inadequate results due to browse. As a result do not manage this stand at this time.
104	42200 - Natural White Pine	Sawtimber Medium	8.0	88	81-110	Stand was cut in 1992 by Alan Lamberson as part of the Mile Long Pine sale, #53-020-90-01. All species cut except for red and white pine, hemlock, and red oak. A few scattered hardwoods were left as well. Residual stand has a supercanopy of massive trees, notably the white pine. Regeneration has come back well to white pine. Areas of heavy browse on the beech and ironwood understory. Rolling terrain with some steep slopes. Average ba/acre from 7 plots = 101 square feet. Retain the supercanopy trees and manage for a multi-aged white pine stand.
105	4130 - Aspen	Poletimber Well	6.2	49	81-110	Stand is currently set-up for a clearcut and is part of the sale Boreal Mix, #53-012-015-01, bought by Precision. Trace of hemlock, spruce, and paper birch.
106	42210 - Natural Red Pine	Sawtimber Well	3.4	88	111-140	Old notes indicate stand had a partial harvest in 1992. Some of the more open areas following the harvest are still visible and have filled in with regeneration. The remainder of the stand is well-stocked with sawtimber, however there is some variation in diameters with a component of large, XL-sized trees present. Oak is more prevalent in the north half of the stand. Average ba/acre from 4 plots = 128 square feet.
107	4199 - Other Mixed Upland Deciduous	Poletimber Well	11.4	50	81-110	Stand was cut in 1968 leaving most oak and pine according to old OI notes. A few larger maple and aspen were left here and there as well. Maple quality is only mediocre. A few small clones of aspen mixed in. Decent amount of oak regenerated, more so in the west/northwest part of the stand. Trace of white spruce, balsam fir, and beech. Average ba/acre from 8 plots = 106 square feet. Let the younger age class grow another entry or two and then manage using even-aged techniques.
109	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	2.2	81	81-110	Small little oak/maple knob that was not included as part of the adjacent Kerr Mason Pine sale (#53-017-10-01). This area was left as retention for the clearcut unit to the north (stand 56). Average ba/acre from 3 plots = 103 square feet.

S t	Pigeon River Country	v Mgt. Unit		Report 7	– Forested	Stands Compartment: 39 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
110	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	3.1	81	111-140	Stand is on an upland/lowland transition, can't tell exactly how wet it is due to the snow. Old notes indicate a winter deer cut was done here in 1970 but they left a scattered residual which would explain the variety of diameters that are present. Some very large trees are mixed in, mostly white pine but also a couple XL size paper birch and red maple. Average ba/acre from 4 plots = 118 square feet.
111	4139 - Aspen, Mixed Deciduous	Poletimber Well	20.3	50	111-140	Diverse stand with numerous wet areas mixed in throughout. With the exception of stands 72 and 73, these areas are too small to map out on their own. Some of the wet areas appear to be connected by drainages. Old OI notes indicate this stand had a harvest in 1968. Looks like everything was cut except for most oak and pine as well as scattered larger hardwoods. A small amount of red oak regenerated and is in the poletimber size class. Some scattered inclusions of a red maple/paper birch/red oak cover type. The white pine component is mostly in the west end. Larger trees seem to be concentrated around the wetlands, including some very large white pine, as it looks like these areas were protected during previous harvest operations. Trace of cedar, balsam poplar, beech, white oak, elm, white spruce, red pine, hemlock, and basswood. Although largely overgrown, there is an old road system in this stand. Average ba/acre from 16 plots = 123 square feet. Heavy deer and elk use throughout.
113	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	7.1	100	51-80	Two-aged stand with a supercanopy of large hemlock, oak, hardwoods, and white pine. The second age class is starting to recruit into the overstory and has a nice representation of hardwood regeneration. Retain the overstory trees and manage for the understory hardwoods. Average ba/acre from 5 plots = 80 square feet.
115	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.8	53	111-140	Somewhat different composition than surrounding stands of the MD type. This stand is dominated by mostly red maple and paper birch and does not have as much pine. Aspen occurs in a few spots, mostly the west end, but is not common throughout. A second age class of larger, older trees is mixed in (mostly pine and oak). A couple pockets of hemlock are in the middle of the stand. A few small, wet depressions are present. Trace of white spruce and sugar maple. Average ba/acre from 7 plots = 124 square feet.



Stand	Cover Type	Acres	Managed Site	General Comments:
4	320 - Upland Shrub	40.1		07/09/2018 Decided not to trench and plant during a meeting attended by FRD and WLD personnel.
				Stand harvested as part of Screaming Pine (#53-021-10-01), whole-tree harvest by Randy Nash, unit was cut in winter of 2014. Cut volumes were 61 mbf white pine, 150 mbf red pine, 215 cords white pine, 108 cords red pine. Some red oak were left as residual trees, all of these are in the north half of the stand. Regeneration is very sparse up to this point. The best is found in the north half but is mostly below 2 feet and being heavily browsed. All stump sprout regeneration appears dead. The south finger has little to no regeneration and has a heavy component of black cherry. Pine has seeded into a few spots throughout the stand but they are limited in nature. Regen survey results from 14 1/100th acre plots: white pine 64 TPA (2.5'), red pine 50 TPA (1'), red maple 364 TPA (1'), beech 279 TPA (1'), ironwood 250 TPA (2'). Red oak residual = 8 square feet per acre.
				OPIC - FMD: 2008 UNDERSTORY IS A MIXED BAG OF U (SOME OF IT LEATHERWOOD), M1, W1, AND SOME OAK. FAIRLY HEAVY BROWSING. LEAVE ONE TO 3 ACRES FOR RETENTION. THERE MAY BE SOME ASPEN COME INTO THIS STAND WHEN CUT. WILL CONVERT TO U, PINE, M AND ASPEN.
15	310 - Herbaceous Openland	1.8	No	Active oil well site, Corwith 3-22B. There is a small structure on the south end of the pad as well.
20	6220 - Alder/willow	2.3	No	Very wet stand with a dense coverage of alder. Quite a bit of red maple and elm are present but they appear somewhat stagnant, likely due to the amount of water. Black ash used to be a moderate component but is now all dead due to EAB. This stand appears to be the source of an intermittent stream that flows south through stand 16 (see 98DOQ imagery).
26	320 - Upland Shrub	2.5	No	Stand cut in 1982 by Champion as part of 1-22 Aspen, #53-023-80-01. Very heavy browsing in the past has wiped out almost all regen. A few clumps of residual hardwoods scattered throughout. White pine is now slowly filling in.
51	6239 - Mixed Emergent Wetland	15.4	No	Hardwood Creek flows through the stand and was formerly flooded by beavers which killed most of the trees. Water levels have now subsided and the stand is starting to fill back in. A couple cedar are still hanging on here and there. An old elevated blind is at the southeast end of the stand, near the creek.
56	320 - Upland Shrub	12.9		Stand cut in 2015 as part of Kerr Mason Pine, #53-017-10-01, bought by Hydrolake, cut by Precision. Roundwood job. A lot of very large white pine were cut out of this stand as well as some oak, red pine, and birch. Scattered white pine, red pine, oak, and hemlock left.
				Regeneration has struggled due to the lack of scarification and the impacts of browsing. Best regen is along the north and east edges. The deciduous component is mostly along the eastern edge and near the road, it is being heavily browsed in all other areas, all stump sprouts appear dead. Little to no regen in the central and southern parts of the stand, sedge/grass appears to be taking over some of these areas. Regen survey results from 6 1/100th acre plots: white pine 267 TPA (2'), fir 50 TPA (2.5'), beech 217 TPA (2'), red maple 267 TPA (2.5'). This technically passes as a mixed stand but it does not look good. White pine may continue to seed in here over the years, evaluate at next inventory cycle.
				Old OI Rx Comments: LEAVE THE SOUTH ARM AS RETENTION AND AN ISLAND OR TWO IN THE MAIN PART OF THE STAND. CUT OAK IN THE MAIN PART OF THE STAND Aspen, red maple, oak and birch as well as white and red pine would be expected to regenerate in this stand.
72	622 - Lowland Shrub	1.2	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
73	6229 - Mixed lowland shrub	0.8	No	The edges of this lowland stand are not well defined as water seems to drain out to the north and west.
79	6229 - Mixed lowland shrub	0.8	No	Did not venture far into this stand. Edge call.
80	6239 - Mixed Emergent Wetland	0.8	No	
82	500 - Water	3.0	No	Lloyd Lake which is spring feed with no distinct inlet or outlet.
88	320 - Upland Shrub	13.5		Stand cut as part of Screaming Pine, cut by Nash in the spring of 2014. Scattered pockets of advanced hardwood regeneration were left. Poor looking regeneration that is being heavily impacted by deer and elk. Some aspen has sprouted but not sure how much of it is alive at this point due to the browsing. The remainder of the regeneration is beech and black cherry, both of which are also being browsed. What to do here? This is a hardwood quality site. Fence? Plant?
89	320 - Upland Shrub	18.0		Stand harvested as part of Screaming Pine (#53-021-10-01), whole-tree harvest by Randy Nash, Cut in early summer of 2014. Cut volumes were 158 mbf white pine, 99 mbf red pine, 159 cords white pine, 40 cords red pine. Scattered leave trees are primarily white pine with a few red pine, red oak, and hemlock mixed in. Average residual ba/acre from 8 plots = 10 square feet. OI Rx comments: "Do not cut Hemlock or Oak. Expect aspen, red maple as well as red, white pine to reproduce in the stand." Regeneration up to this point is very poor and is a failure by our standards. A few patches of white pine regen are present but most of these appear to be advanced regen that wasn't cut during the harvest. Heavy browse is occurring on all deciduous species even ironwood and beech, both deer and elk appear to be using the stand a lot. Many areas are converting to a grass/sedge mix. Regen survey results from 8 1/100th acre plots (average height in parentheses): white pine 338 TPA (2'), red maple 13 TPA (1'), beech 100 TPA (1.5'), ironwood 100 TPA (1.5'), red pine 13 TPA (1').
92	320 - Upland Shrub	8.0		 Stand cut as part of Kerr Mason Pine, about 10 sq ft of residual oak, mostly in NE end. Bought by Hydrolake, cut by Precision. Lot of birch cut out of this stand. A few of the residual oak are dead, will have to monitor to ensure it's not oak wilt. Regeneration up to this point is very poor and being heavily impacted by deer and elk. No sign of any stump sprouts. All aspen shows browse damage, at this point not sure how much of it is alive. Even some of the balsam is being browsed. Regen survey results from 8 1/100th acre plots (height in parentheses): bigtooth aspen 188 TPA (2'), quaking aspen 300 TPA (1.5'), white pine 13 TPA (6"), balsam fir 125 TPA (1.5'), beech 38 TPA (2'). OI Rx Comments: Do not cut Oak or Hemlock. Acreage on this stand may not be what is coded. Hard to tell where sale line will run. Aspen, red maple, and soft wood species would be expected to reproduce in this stand
93	2113 - Forage Crops	2.7	Yes	Abandoned well pad. This stand was planted with saplings and shrubs from the surrounding area by wildlife in an attempt to return the site to its natural condition. However now it has been reverted back to a food plot. The western 1/3rd of the stand has not been planted and has a few cords of leftover wood from when this was used as a landing for the adjacent harvest to the south.



Stand	Cover Type	Acres	Managed Site	General Comments:
108	310 - Herbaceous Openland	4.7	No	Not a managed wildlife opening. The north, thin part of the stand is essentially just an old closed road. Then eastern finger is more of an opening and has some patches of white pine.
116	310 - Herbaceous Openland	1.9	No	Abandoned well pad. Does not appear to be a managed opening. Lot of spotted knapweed.
117	2113 - Forage Crops	8.2	Yes	The majority of this is a managed wildlife opening with the exception of the small finger which extends to the northeast.
118	2113 - Forage Crops	5.3	Yes	Managed wildlife opening.
119	310 - Herbaceous Openland	1.9	No	Open area that is not managed as a food plot. Fenced exclosure on the west side with shrubs that were planted by WLD Division.
120	310 - Herbaceous Openland	1.0	Yes	Small trail at the south end that needs to be bermed off.
121	2113 - Forage Crops	6.2	Yes	Managed wildlife opening.