

Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 10 Entry Year 2015 Acreage: 1,626 County Cheboygan Management Area: Pigeon River Country

Revision Date: 08/21/2013

Stand Examiner: Richard McDonald

Legal Description:

T33N R01W Sec. 3, 10, 11, 14 and 15

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:

Flat to gently rolling terrain. Predominantly sandy soil types throughout the compartment of varying names and associations, except in lowland swamp types.

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

Solid state ownership throughout the compartment, as well as, throughout the surrounding area.

Unique Natural Features:

A representative from Michigan's Natural Features Inventory should be on hand at Compartment Review to give further detail regarding any unique natural features.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

This compartment borders the Dog Lake Special Management Area.

Watershed and Fisheries Considerations:

A couple of small creeks and drainages flow east to feed McMasters Creek which is a tributary to the Black River, a designated trout stream.

Wildlife Habitat Considerations:

Management in this compartment will provide early successional habitat for deer, woodcock, grouse and beaver and late successional habitat for black throated blue warbler and pileated woodpecker. Openings will be maintained or restored to provide habitat for elk and other species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till. Glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for clay/shale and cement products elsewhere in the State. There are no nearby gravel pits, but there should be good potential. This area was previously leased for oil and gas development. The Antrim Shale subcrops in this area and the Niagaran trend lies to the south and east. There is no oil and gas potential for known producing formations in this compartment.

Vehicle Access:

There is good access to most, if not all, of the compartment. Most of the roads, however, have been closed to wheeled motorized vehicles with virtually all those closures still intact.

Survey Needs:

None required.

Recreational Facilities and Opportunities:

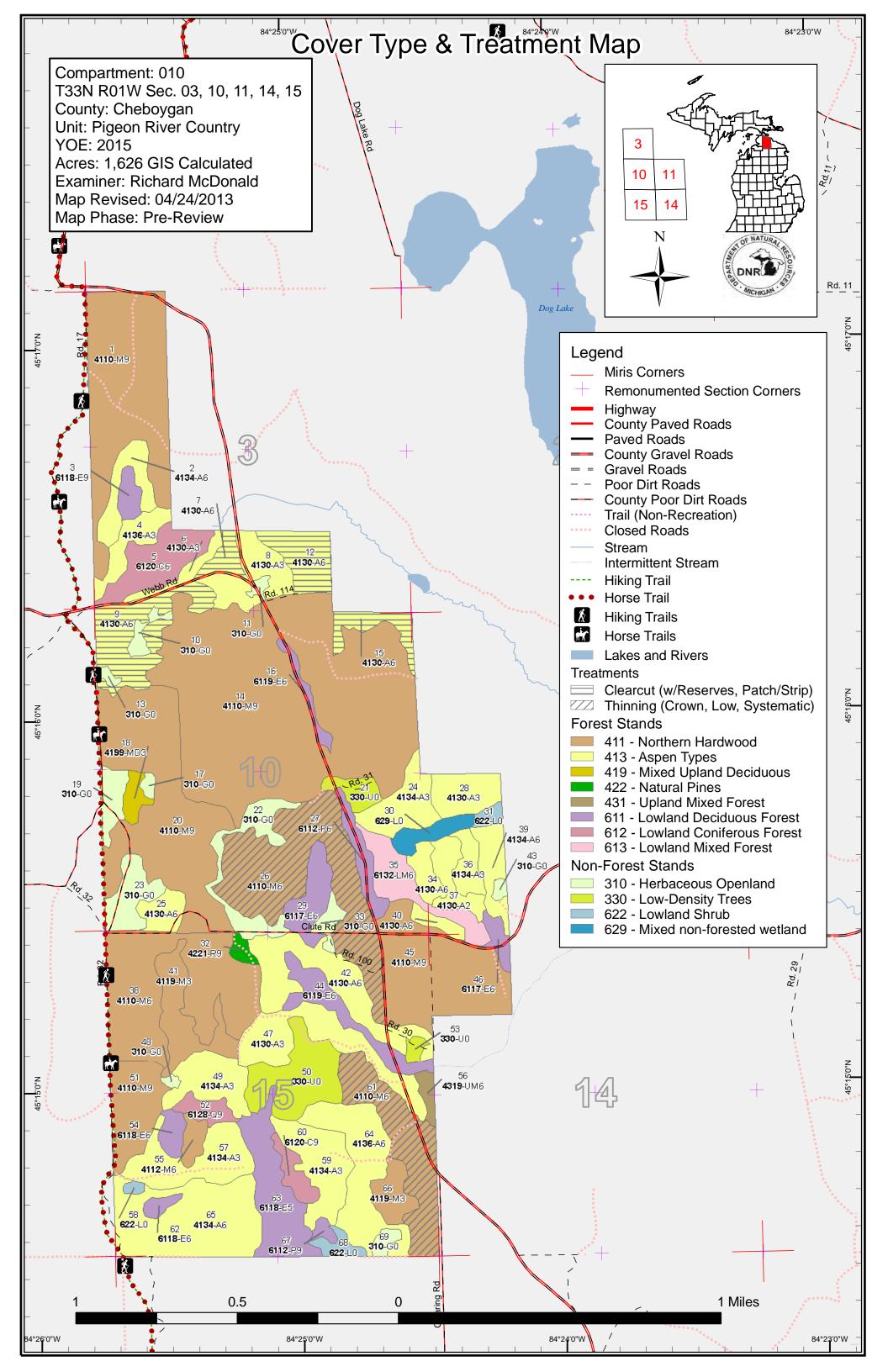
The Shore To Shore Horse Trail/Midland To Mackinaw Hiking Trail runs up along the west side of the compartment. Area is used extensively at periods of time throughout the year by offsite campers

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

Additional Compartment Information:

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

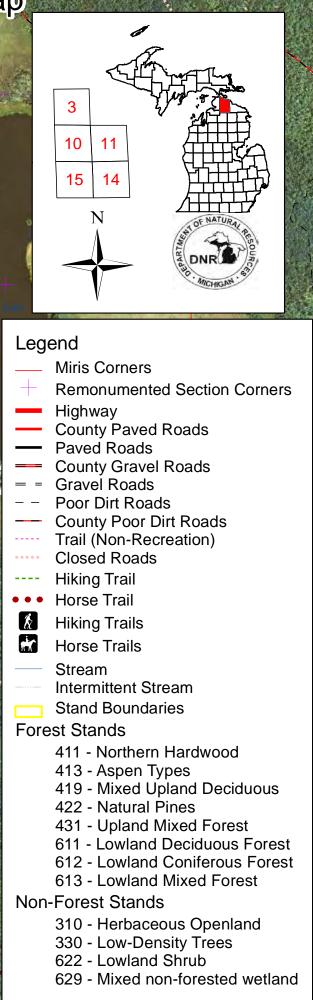
The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system

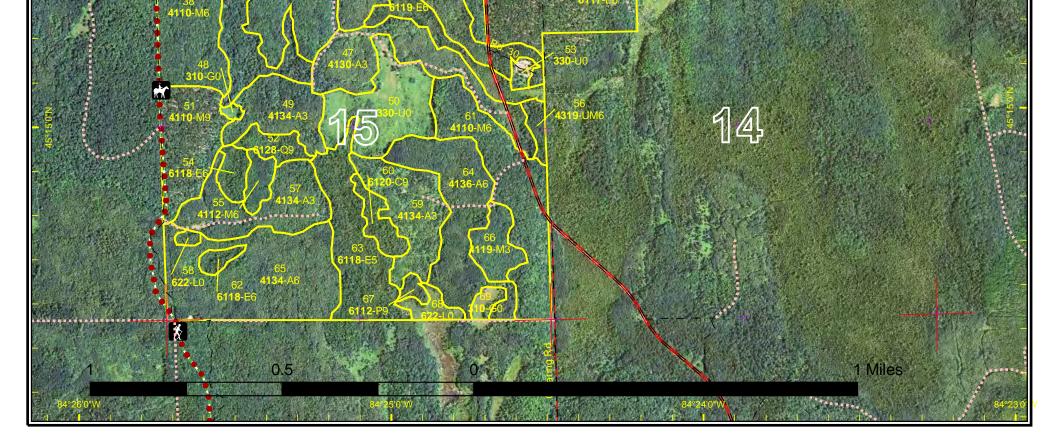


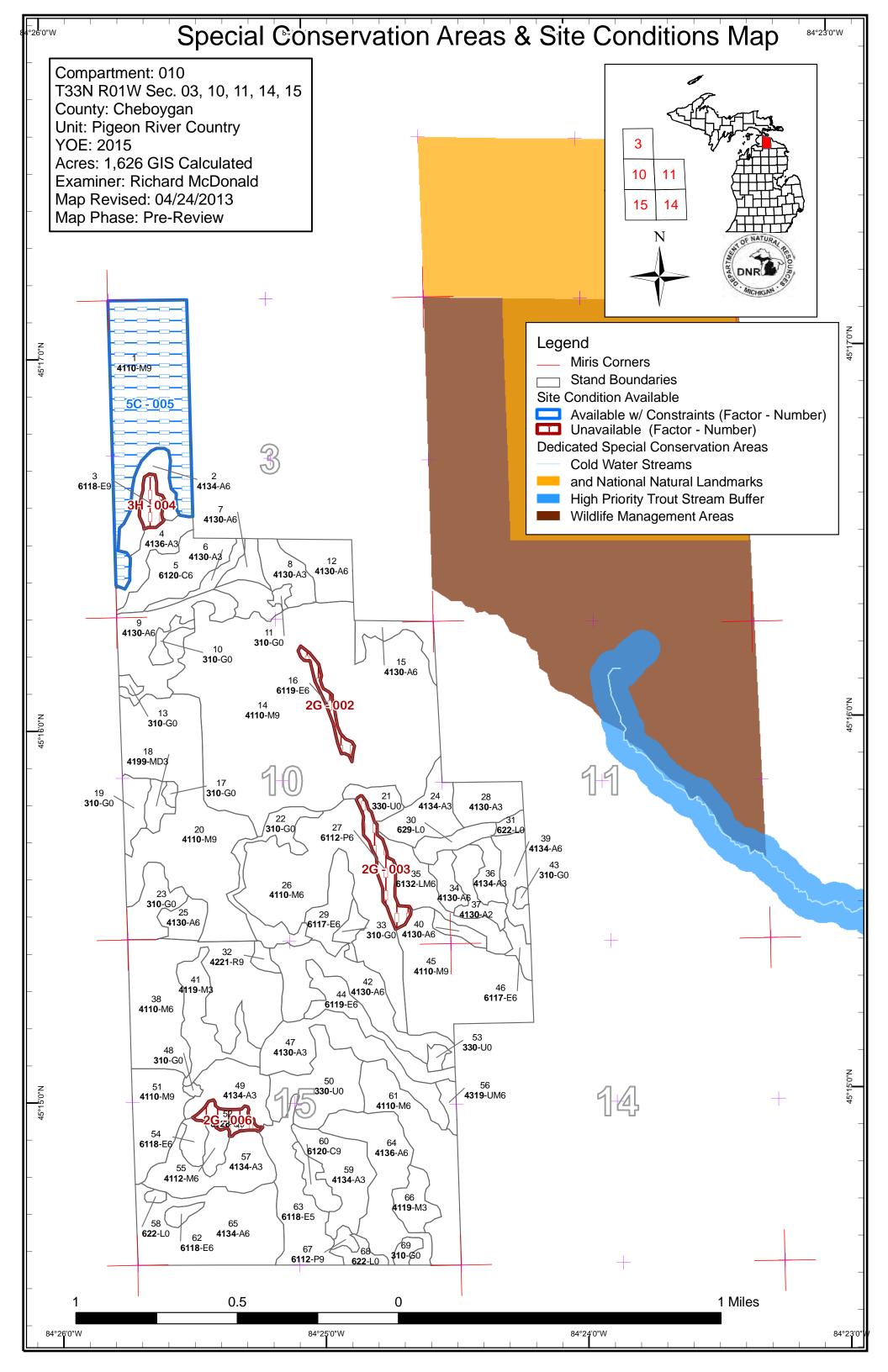
Compartment: 010 T33N R01W Sec. 03, 10, 11, 14, 15 County: Cheboygan Unit: Pigeon River Country YOE: 2015 Acres: 1,626 GIS Calculated Examiner: Richard McDonald Map Revised: 04/24/2013 Map Phase: Pre-Review

10

Stand Boundary Map







Report 1 – Total Acres by Cover Type and Age Class

eon River Country Mgt. Unit Richard McDonald : Examiner

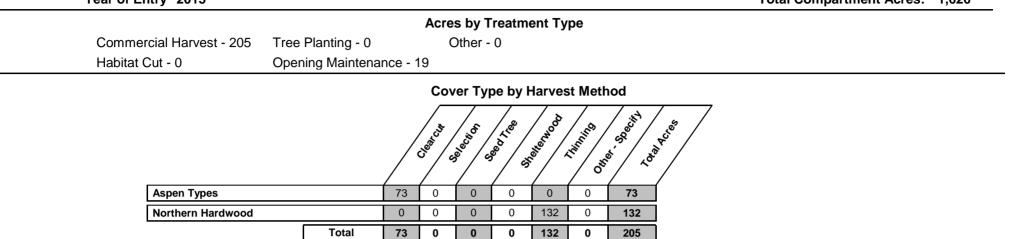
Compartment 010 Year of Entry 2015



Age Class

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Aspen	23	38	129	202	93	0	0	0	0	0	0	0	0	0	485	
Cedar	0	0	0	0	0	0	0	0	0	26	0	8	0	0	34	
Herbaceous Openland	65	0	0	0	0	0	0	0	0	0	0	0	0	0	65	
Low-Density Trees	45	0	0	0	0	0	0	0	0	0	0	0	0	0	45	
Lowland Aspen/Balsam Poplar	0	0	0	0	0	11	0	2	0	0	0	0	0	0	14	
Lowland Conifers	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7	
Lowland Deciduous	0	0	0	22	41	0	0	20	0	11	0	3	0	0	97	
Lowland Mixed Forest	0	0	0	0	0	0	0	22	0	0	0	0	0	0	22	
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
Mixed Upland Deciduous	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6	
Northern Hardwood	0	0	25	12	0	6	0	0	0	783	0	0	0	0	826	
Red Pine	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	
Upland Mixed Forest	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4	
Total	152	38	160	235	134	17	4	44	3	828	0	11	0	0	1626	





S t		Pigeon	River Cour	ntry Mgt. Unit	Repo			ents Prescri ing Factor	bed	Compartment: 010 Year of Entry 2015	UNR DNR
a n d		atment ame	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	53010	0007-Cut	6.9	4130 - Aspen	High Density Pole	43	81-110	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
Prese Spec			this stand. or visual pu		ped piece th	at has ro	oads on two	sides. There is	no need for retent	tion in this small of star	nd unless
<u>Othe</u> Com	er Iments:	If, howev	ver, aspen i		generating du	ie to ove	er-browsing	or other environ	mental factors and	acceptable as regenera I leads to more of an u Management Plan.	
<u>Next</u> Step:		Upon ha success.	•	letion of this stand, a	a regeneratio	n survey	will be con	ducted within 4-	5 years of that con	npetion date to determine	ine regenertion
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9	53010	0009-Cut	35.0	4130 - Aspen	High Density Pole	42	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
Pres Spec		_ Clearcut	with reserv	ves. One to two uncu	ut islands and	d a few l	arger diamt	er trees to fall a	nd leave.		
<u>Com</u>	ments:	type, this	s is accepta	s unsuccessful in reg able to wildlife divisio	n as it contrib	outes to	vards the o	verall goals of th	at type in the Elk N	Management Plan.	
<u>Com</u> <u>Next</u> Step: Propo	<u>iments:</u> s: <u>sed</u> Date:	type, this	s is accepta	able to wildlife divisio	n as it contrib	outes to	vards the o	verall goals of th	at type in the Elk N		ine regenertion
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Pigeon River Country Mgt. Unit

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 010 Year of Entry 2015



a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
26	53010026-Cut	86.2	4110 - Sugar Maple Association	High Density Pole	95	81-110	Harvest	Crown Thinning	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription. Thin the stand using sound hardwood marking principles. By using "best tree in place" method identify crop trees and open them up by cut two Specs: nearest competitors. Thin stand down to 80-100 sq. ft. while maintaining species diversity throughout the stand. Other EAB occurs throughout the stand, therefore all White Ash should be removed from the stand. Comments:

<u>Next</u> Due to lack of desireable species in either seed, seedling or sapling form there will not be an emphasis on regeneration at this stage of hardwood Steps: development. This stand should be allowed to mature further before regeneration is a concern.

Proposed Start Date: 10/01/2014

s t

61 53010061-Cut 45.9 4110 - Sugar Maple High 90 111-140 Harvest **Crown Thinning** 4110 - Sugar Maple Cmpt. Review Association Density Association Proposal Pole Prescription Thin the stand using sound hardwood marking principles. By using "best tree in place" method identify crop trees and open them up by cut two nearest competitors. Thin stand down to 80-100 sq. ft. while maintaining species diversity throughout the stand. Specs: <u>Other</u> EAB occurs throughout the stand, therefore all White Ash should be removed from the stand. Comments: Due to lack of desireable species in either seed, seedling or sapling form there will not be an emphasis on regeneration at this stage of hardwood <u>Next</u> development. This stand should be allowed to mature further before regeneration is a concern. Steps: Proposed Start Date: 10/01/2014 NF 53010022-19.0 3102 - Grass Mowina 3102 - Grass Cmpt. Review 22 Non-Forest Management Proposal

NonFor

Prescription Wildlife opening has been mowed in the recent past.

Specs:

Awaiting Wildlife Biologist confirmation on treatment method. <u>Other</u>

Comments:

<u>Next</u> Steps:

Proposed

Unspecified Start Date:

> **Total Treatment** Acreage Proposed: 223.5

S t	Pigeon	River Count	ry Mgt. Unit	Report 4		eatment imiting	Compartment: 010 Year of Entry 2015	AND NATURAL RECOURSES		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Type!							
Preso Spec	<u>cription</u> <u>s:</u>									
<u>Other</u> Comr										
<u>Next</u> Steps	<u>s:</u>									
<u>Propo</u> Start	<u>osed</u> <u>Date:</u> #Type!									
<u>Limiti</u>	ng Factor									
A	Total Treatme creage Propose									

Pigeon River Country Mgt. Unit

Richard McDonald : Examiner

Compartment 010 Year of Entry 2015

Availability for Management

	/ an		managonnonie					
485 485 Aspen 485 Image: Constraint of the cons	Total	Acres	Acres	D	omina	nt Site	e Con	ditions
3434Cedar3414211Lowland Aspen/Balsam Poplar21177Lowland Conifers7978611Lowland Deciduous8662222Lowland Mixed Forest22166Mixed Upland Deciduous61826826Northern Hardwood7329433Red Pine3144Upland Mixed Forest41	Acres	Available	Not Available		No	5C	ЗH	2G
14211Lowland Aspen/Balsam Poplar21177Lowland Conifers7978611Lowland Deciduous8662222Lowland Mixed Forest22766Mixed Upland Deciduous61826826Northern Hardwood7329433Red Pine3144Upland Mixed Forest41	485	485		Aspen	485			
7 7 Lowland Conifers 7 7 97 86 11 Lowland Deciduous 86 6 5 22 22 Lowland Mixed Forest 22 7 7 7 6 6 Mixed Upland Deciduous 6 7 7 7 826 826 Northern Hardwood 732 94 7 7 3 3 Red Pine 3 7 7 7 4 4 Upland Mixed Forest 4 7 7	34	34		Cedar	34			
97 86 11 Lowland Deciduous 86 6 5 22 22 Lowland Mixed Forest 22 6 6 Mixed Upland Deciduous 6 826 826 Northern Hardwood 732 94 3 3 Red Pine 3 4 4 Upland Mixed Forest 4	14	2	11	Lowland Aspen/Balsam Poplar	2			11
2222Lowland Mixed Forest2266Mixed Upland Deciduous6826826Northern Hardwood7329433Red Pine344Upland Mixed Forest4	7		7	Lowland Conifers				7
66Mixed Upland Deciduous6826826Northern Hardwood7329433Red Pine344Upland Mixed Forest4	97	86	11	Lowland Deciduous	86		6	5
826 826 Northern Hardwood 732 94 3 3 Red Pine 3 4 4 Upland Mixed Forest 4	22	22		Lowland Mixed Forest	22			
3 3 Red Pine 3 4 4 Upland Mixed Forest 4	6	6		Mixed Upland Deciduous	6			
4 4 Upland Mixed Forest 4	826	826		Northern Hardwood	732	94		
	3	3		Red Pine	3			
1,497 1,467 30 Total Forested Acres 1,373 94 6 24	4	4		Upland Mixed Forest	4			
	1,497	1,467	30	Total Forested Acres	1,373	94	6	24
98% 2% Relative Percent		98%	2%	Relative Percent				

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

Site No.		Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	2G: Too wet (sensitive soils, does not include access issues)	5				
C	Comments:						
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	11	3G: Other Influence zones - See comments			
	Comments: Travel influence cor						
	ravel influence cor	ridor					

untry Mat Unit

Report 5 – Site Conditions

Pigeon River Country Mgt. Unit

Richard McDonald : Examiner

Compartment 010 Year of Entry 2015

Delay treatment for ze class diversity or ptional site quality	94	
ze class diversity or	94	
Too wet (sensitive , does not include access issues)	7	
	, does not include	, does not include



Report 6 – 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



Report 7 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservation Area	а Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Habitat Area	An area that provide some specific need for the life cycle of wild and Waterfowl Production Areas, deer wintering complexes in le openings and savannas. Habitat areas are distinct from critical endangered or threatened species (such as Kirtland's warbler of general in nature, are not primarily associated with threatened of covered by species recovery plans that are developed in coope	owland conifer communities, grassland habitat designated for recovery of or piping plover areas) in that they are more or endangered species, and are not

S t	Pigeon River Countr	y Mgt. Unit		Report 8	– Forested	Stands Compartment: 010 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	High Density Log	94.3	95	111-140	Stand was thinned in 1996-7. EAB and BBD are infecting trees throughout the stand. No mortality yet.
2	4134 - Aspen, Spruce/Fir	High Density Pole	15.3	44	51-80	Old habitat cut for winter deer browse surrounding a pocket of cedar/red maple. Hold off treatment of this stand until surrounding hardwoods is cut again.
3	6118 - Lowland Deciduous with Cedar	High Density Log	6.0	92	111-140	Not real low, but has springs flowing out most of the year. Good winter wildlife cover.
4	4136 - Aspen, Mixed Conifer	High Density Sapling	13.5	24		
5	6120 - Lowland Cedar	High Density Pole	26.1	98	81-110	Small cedar swamp with springs that drain out and flow into to form the McMaster's Creek.
6	4130 - Aspen	High Density Sapling	6.5	31		Strip cut along swamp for winter browse.
7	4130 - Aspen	High Density Pole	6.9	43	81-110	Nice pole stand on Webb/Osmun corner
8	4130 - Aspen	High Density Sapling	23.1	6		Stand was cut in 2006. Regeneration has been very successful.
9	4130 - Aspen	High Density Pole	35.0	42	81-110	Nice pole stand.
12	4130 - Aspen	High Density Pole	19.4	43	81-110	Good site Aspen. Quality hardwoood understory, however, there is a good percentage of Ash with some signs of EAB infection.
14	4110 - Sugar Maple Association	High Density Log	266.1	95	81-110	Nice hardwood. Thinned in 2009-10
15	4130 - Aspen	High Density Pole	11.3	43	81-110	Part of a larger contiguous stand that includes stand 13 and crosses over into comp. 11.
16	6119 - Mixed Lowland Deciduous Forest	High Density Pole	5.4	95	81-110	Low, drainage along Osmun Road in the middle of a hardwood stand with a vernal pond on the north end.
18	4199 - Other Mixed Upland Deciduous	High Density Sapling	5.6	24		
20	4110 - Sugar Maple Association	High Density Log	107.8	95	81-110	This stand was thinned in 2001-02. EAB occurs throughout the stand, but not mortality found yet. White Ash is a very small component of the stand, not worthy of any attempts at salvage.
24	4134 - Aspen, Spruce/Fir	High Density Sapling	20.5	24		
25	4130 - Aspen	High Density Pole	9.3	35	51-80	

S t	Pigeon River Country Mgt. Unit		Report 8	– Forested	Stands Compartment: 010 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4110 - Sugar Maple Association	High Density Pole	86.2	95	81-110	
27	6112 - Lowland Aspen	High Density Pole	11.3	52	51-80	Narrow strip of mature aspen, lowland hardwood, and conifer along Osmun Road. Not real desireable timber, leave for visual management reasons.
28	4130 - Aspen	High Density Sapling	16.6	12		Reproduction is spotty
29	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	16.2	33	51-80	
32	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	3.2	81	51-80	Pocket of Red Pine with mixed hardwood. Maintain for diversity.
34	4130 - Aspen	High Density Pole	8.0	33	51-80	Small pocket of emerging pole stand. Somewhat wet ground.
35	6132 - Mixed Lowland Forest with Cedar	High Density Pole	21.6	75	81-110	Highly variable stand as far as species composition. Water does drain through stand.
36	4134 - Aspen, Spruce/Fir	High Density Sapling	8.9	19		Area of blowdown with regeneration of different age classes. Age is an estimate.
37	4130 - Aspen	Medium Density	12.5	12		Regeneration is spotty due possibly to wet ground.
38	4110 - Sugar Maple Association	High Density Pole	84.3	90	111-140	Fairly decent hardwood. This stand has potential, but needs to be thinned.
39	4134 - Aspen, Spruce/Fir	High Density Pole	13.2	39	51-80	Nice young pole stand with heavy fir understory. Part of a larger stand (comp11) to the east. Manage with that stand.
40	4130 - Aspen	High Density Pole	4.9	45	51-80	Old wildlife cut along swamp edge. Small acreage.
41	4119 - Mixed Northern Hardwoods	High Density Sapling	25.4	20		Scattered residual red pine left after last cut. Red Plne stand had a heavy hardwood understory, so we removed most of the Red Pine to encourage the hardwood underneath.
42	4130 - Aspen	High Density Pole	40.6	33	51-80	Nice developing pole stand
44	6119 - Mixed Lowland Deciduous Forest	High Density Pole	19.6	75	51-80	
45	4110 - Sugar Maple Association	High Density Log	69.7	95	81-110	Good hardwood recently thinned in 2012. EAB throughout residual ash.

S t	Pigeon River Countr	y Mgt. Unit		Report 8 -	- Forested	Stands Compartment: 010 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	5.5	37	51-80	Real wet drainage. EAB infecting Black Ash.
47	4130 - Aspen	High Density Sapling	36.3	25		
49	4134 - Aspen, Spruce/Fir	High Density Sapling	21.9	33	1-50	Good emerging pole stand with thick fir component on the edge of lowland.
51	4110 - Sugar Maple Association	High Density Log	28.7	95	81-110	Nice quality hardwood that was selectively cut in 2011/12.
52	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	7.0	90	81-110	This stand has about a 20% cedar component.
54	6118 - Lowland Deciduous with Cedar	High Density Pole	6.1	47	51-80	Wet swamp hardwood
55	4112 - Maple, Beech, Cherry Association	High Density Pole	6.0	50	51-80	Relative high spot surrounded by low ground.
56	4319 - Mixed Upland Forest	High Density Pole	4.2	62	51-80	Part of a larger swamp to the east. Any management should be with that stand.
57	4134 - Aspen, Spruce/Fir	High Density Sapling	30.8	24		Good Aspen regeneration bordering lower ground. Heavier conifer component on the east half of the stand.
59	4134 - Aspen, Spruce/Fir	High Density Sapling	27.8	24		
60	6120 - Lowland Cedar	High Density Log	7.9	114	200+	Nice cedar stand. Access is not real good, but workable
61	4110 - Sugar Maple Association	High Density Pole	45.9	90	111-140	Moderate quality hardwood, but is in need of treatment to thin. Most hardwoods in compartment have been thinned. EAB starting to spend throughout the stand.
62	6118 - Lowland Deciduous with Cedar	High Density Pole	3.3	113	51-80	Low, wet pocket within an aspen stand
63	6118 - Lowland Deciduous with Cedar	Medium Density Pole	34.9	42	51-80	Most trees are residual trees left after a past cut. Poor quality trees for the most part with heavy understory of red maple, ash and areas of lowland shrubs.
64	4136 - Aspen, Mixed Conifer	High Density Pole	41.5	38	51-80	Resembles early succession hardwood stand except with heavier Aspen component in the north half.
65	4134 - Aspen, Spruce/Fir	High Density Pole	61.0	38	1-50	Nice emerging pole stand. Heavier fir component in the east half.

S t	Pigeon River Countr		Report 8	- Forested	Stands Compartment: 010 Year of Entry: 2015	RESOURCE	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	<i>/%</i>
66	4119 - Mixed Northern Hardwoods	High Density Sapling	11.6	38		This stand was once part of stand 67, but has regenerated back to nearly all hardwood with a minor component of aspen.	_
67	6112 - Lowland Aspen	High Density Log	2.5	77	51-80	Wet aspen stand between beaver pond and swamp hardwood.	_

Compartment: 010

Year of Entry: 2015

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Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
10	3103 - Rubus-Fern	4.3	No	Unspecified	
11	3105 - Mixed Upland Herbaceous	2.0	No	Unspecified	
13	3105 - Mixed Upland Herbaceous	1.7	No	Unspecified	
17	3105 - Mixed Upland Herbaceous	1.8	No	Unspecified	
19	3105 - Mixed Upland Herbaceous	9.1	No	Unspecified	
21	3303 - Mixed Low Density Trees	7.9	No	Unspecified	Brushy opening tht is slowly filling in with trees of a variety of species, primarily, Paper Birch, Quaking Aspen, Cherry, Balsam Fir and White Pine.
22	3102 - Grass	19.0	No	Unspecified	wildlife- managed opening primarily grasses that are mowed each year.
23	3105 - Mixed Upland Herbaceous	15.9	No	Unspecified	High quality grass opening not managed by wildlife. Large apple tree in the middle that is usually very productive. It could use some pruning to maintain its vigor.
30	629 - Mixed non-forested wetland	8.9	No	Unspecified	
31	6220 - Alder/willow	3.0	No	Unspecified	
33	3102 - Grass	5.1	No	Unspecified	
43	3102 - Grass	1.6	Yes	Medium (NonForested)	Managed wildlife opening. Mowed grass opening.
48	3105 - Mixed Upland Herbaceous	1.1	No	Unspecified	Small grass opening
50	3303 - Mixed Low Density Trees	34.4	No	Unspecified	Elk exclosure in this stand shows the severity of browse damage that has occurred. What aspen trees there are in this stand are severely stunted.
53	3303 - Mixed Low Density Trees	2.7	No	Unspecified	Opening filling in with trees
58	6220 - Alder/willow	1.4	No	Unspecified	Small pothole of alder and willow that holds a fair amount of water at different points throughout the year.

Report 9 – Nonforested Stands

Compartment: 010 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	
68	6220 - Alder/willow	5.2	No	Unspecified	Periodically flooded by beavers	
69	3105 - Mixed Upland Herbaceous	3.3	No	Unspecified		