

PIGEON RIVER COUNTRY MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT 32 ENTRY YEAR: 2013

Compartment Acreage: 1875 County: Otsego

Review Date: October 6, 2011

Stand Examiner: Rick McDonald

Legal Description: T32N - R01W Sections 4, 5 & 6

RMU (if applicable): Not Applicable

Management Goals:

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

Soil and Topography:

The areas immediately adjacent to the Pigeon River as well as the northern portions of Section 4 and Section 5 all have rolling topography with some steep slopes present. The remainder of the compartment is generally flat.

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

Solid State ownership within and adjacent to this compartment.

Unique, Natural Features (include only non-site specific and non-sensitive information): Devil's Soup Bowl Lake and Section 4 Lake are both limestone sink hole lakes.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

An old lumber mill was once located in the southern portion of stands 80 and 83.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The Pigeon River flows through Section 4. Grass Lake provides good pan fishing opportunities. Section 4 Lake is a special regulation Trout lake and is periodically stocked with Trout.

Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

Mineral Resource and Development Concerns and/or Restrictions:

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

Surface sediments consist of coarse textured glacial till (SW) and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. There is approximately 140 feet of local relief within the compartment. Beneath the glacial drift is the Devonian- Antrim Shales. The Antrim is quarried for clay/shale (cement) elsewhere in the State. The nearest gravel pit is two miles to the nouthwest, and potential is considered good on the uplands. This area is partially leased for oil and gas development until 2001. The Antrim Shale development is located along the north edge of the compartment. The Niagaran trend lies to the east and to the south. There is no oil and gas potential for known producing formations in this compartment.

Vehicle Access:

Plenty of county roads and open trail roads provide good access to most portions of the compartment.

Survey Needs:

None required.

Recreational Facilities and Opportunities:

Elk Hill State Forest campground is situated in the southeast corner of section 4 (stand 104). The Shingle Mill Pathway passes through portions of section 4 and section 5.

Fire Protection:

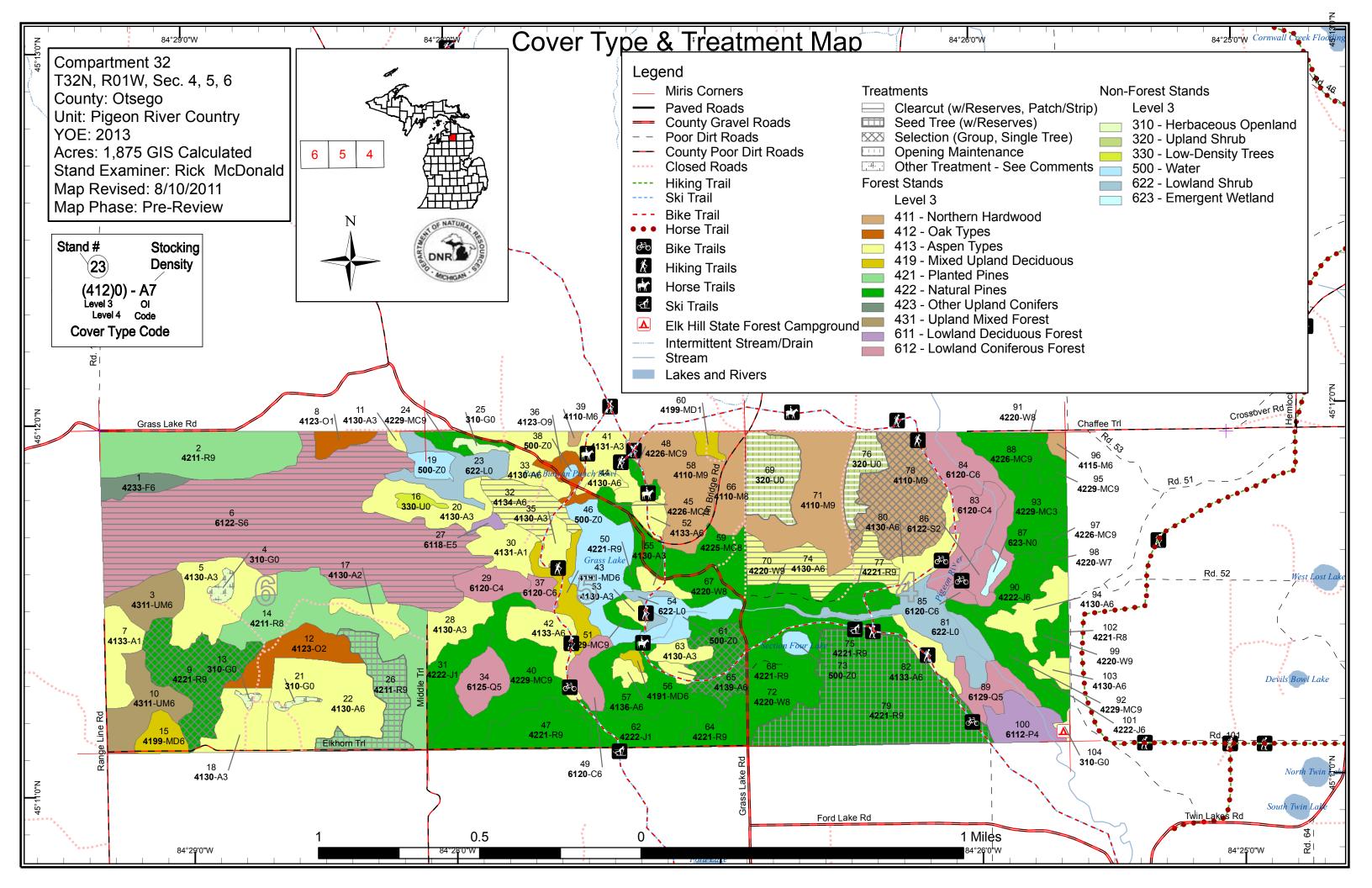
Access is generally good in case of any fire suppression efforts, though the area is generally at low risk to any wildfire potential. Most road systems are closed with berms.

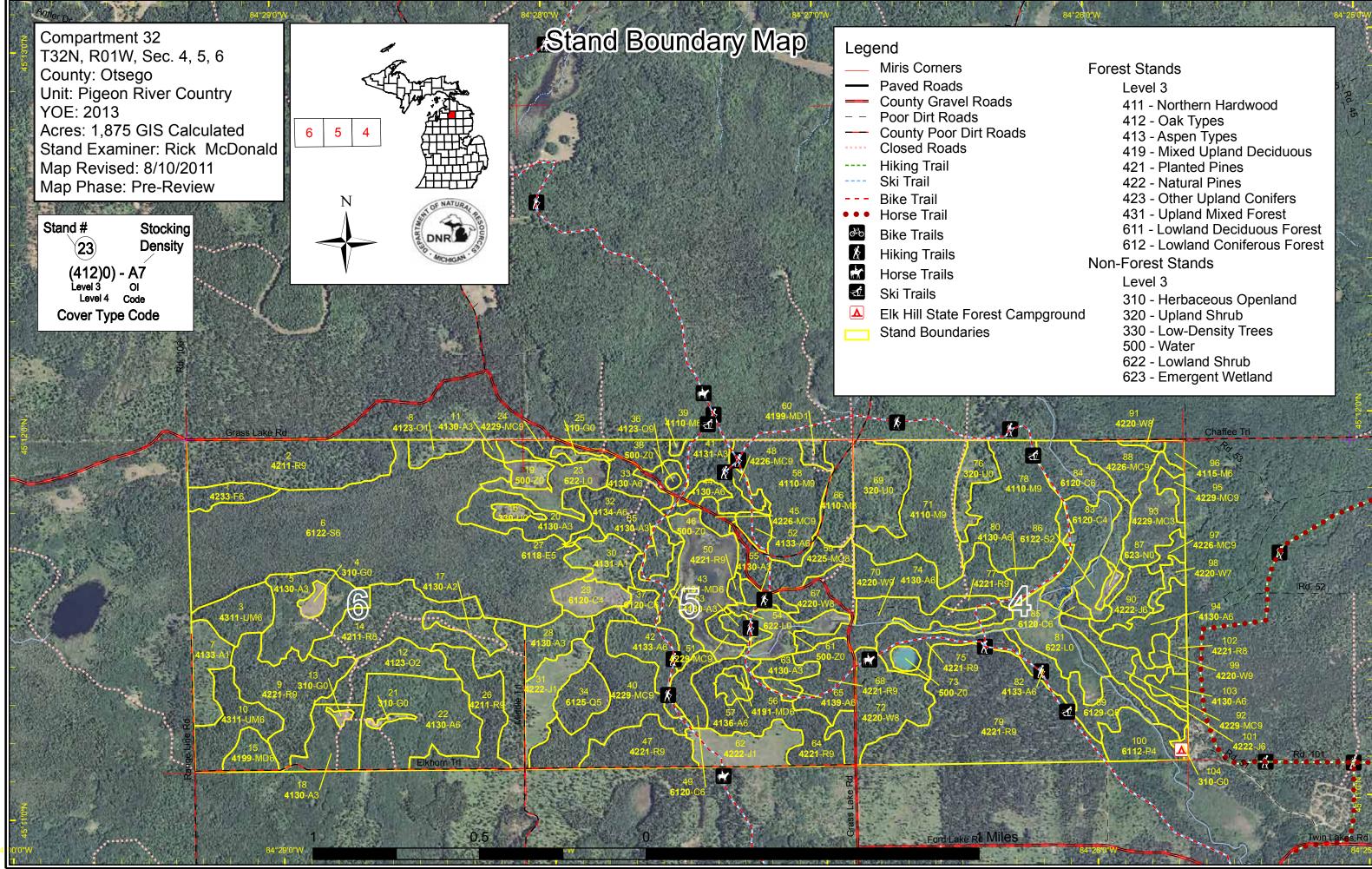
Additional Compartment Information:

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

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

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





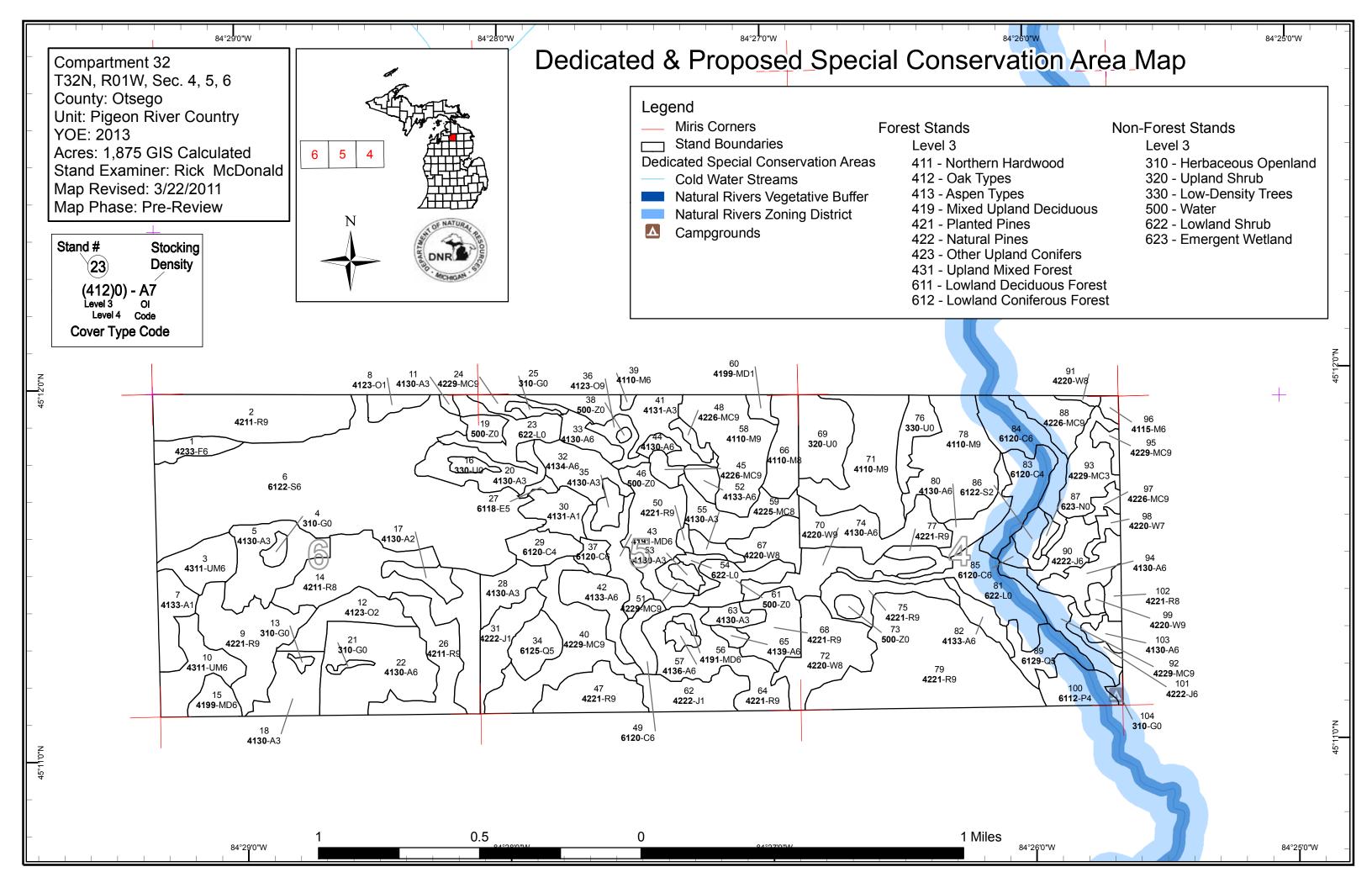


Table 1 – Total Acres by Cover Type and Age Class

eon River Country Mgt. Unit Richard McDonald : Examiner

Compartment 032 Year of Entry 2013



		Age Class															
	Nor	Desterout desterout	°z	61.02	D ²	No.	10-09 10-09	5; ³² , 32	69.00	10,10,00	50 ⁻⁶⁰ -60	69.00	001.001	612.0L	× 052	AND	
Aspen	0	0	36	105	131	43	0	0	0	0	22	0	0	0	35	371	Í
Cedar	0	0	0	0	0	0	0	0	0	12	16	51	0	0	0	78	
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
Jack Pine	0	41	0	0	0	0	0	0	0	19	0	0	0	0	0	59	
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17	
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	15	0	0	0	14	29	
Lowland Deciduous	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	
Lowland Shrub	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	
Lowland Spruce/Fir	0	0	8	0	0	0	0	0	0	223	0	0	0	0	0	231	
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Mixed Upland Deciduous	0	0	4	0	0	0	10	0	2	0	16	0	0	0	0	31	
Natural Mixed Pines	0	0	0	22	0	0	0	0	6	93	4	0	0	0	21	146	
Northern Hardwood	0	0	0	0	0	0	0	0	0	147	0	0	0	0	18	165	
Oak	0	0	0	0	0	0	0	0	0	0	7	0	0	0	28	35	
Red Pine	0	0	0	0	0	0	0	0	27	214	0	0	0	0	162	403	
Upland Mixed Forest	0	0	0	0	0	17	0	0	0	0	0	0	0	0	24	41	
Upland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	
Upland Spruce/Fir	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9	
Water	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	
White Pine	0	0	0	0	0	0	0	0	0	27	0	0	0	0	58	85	
Total	171	41	47	127	141	60	10	0	52	737	80	51	0	0	360	1875	

Age Class

 Table 2 – Proposed Treatment Summaries
 eon River Country Mgt. Unit Compartment 032 Year of Entry 2013 **Total Compartment Acres: 1875** Acres by Treatment Type Commercial Harvest - 520 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0 Habitat Cut - 0 Opening Maintenance - 46 Tree Seeding - 0 Pesticide - 0 **Cover Type by Harvest Method** History Charles 40000 Sec 17 No. A Contraction of the second Trining Selection Clearly the 53 0 0 0 53 Aspen 0 0 Lowland Spruce/Fir 223 223 0 0 0 0 0 Northern Hardwood 0 52 0 52 0 0 0 129 193 Red Pine 0 64 0 0 0 520 Total 276 115 129 0 0 0

Compartment: 032 Pigeon River Country Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2013 s t а Treatment Acres Stage1 Size Stand Treatment Treatment **Cover Type** n Approval Method Name Density Objective Status d CoverType Age Type 6 53032006-Cut 223.0 6122 - Black Spruce High Density Pole 86 Harvest Clearcut 6128 - Lowland Cmpt. Review Coniferous, Mixed Proposal Deciduous Prescription Clearcut a portion(s) of this stand to promote regeneration of Black Spruce and Cedar along with other mixed species that will invariably regenerate following treatment. Any mix of species will be acceptable in determining regeneration success. Specs: Ultimately, cedar regeneration is the long term goal, however, it is recognized that other species will dominate the site in the early successional Other Comments: stages. Next Steps: 9 53032009-Cut 42 0 42210 - Natural High Density Log 83 Harvest Single Tree Selection 42111 - Planted Red Cmpt. Review Red Pine Pine, Mixed Proposal Deciduous Prescription Selectively mark trees to be harvested, as well as, creating some sizeable holes in the canopy to encourage pine regeneration. Red Pine, of course, is preferred but any mix of species will be acceptable. Specs: Other Comments: <u>Next</u> Steps: 74 53032026-Cut 26.7 42110 - Planted High Density Log Seed Tree 42260 - Natural Cmpt. Review 26 Harvest Red Pine Pine, Mixed Proposal Deciduous Prescription Mark red pine seed trees to leave and cut all others. A mix of species will be acceptable for regeneration. Specs: Encourage scarification through the logging process to promote red pine regeneration. <u>Other</u> Comments: <u>Next</u> Steps: 53032032-Cut **High Density Pole** Cmpt. Review 32 20.1 4134 - Aspen, 41 Harvest Clearcut with 4136 - Aspen, Mixed Spruce/Fir Reserves Conifer Proposal Prescription -- Richard McDonald : 08/04/2011 comments: Specs: Clearcut this stand while leaving 2 uncut islands with one of them being that finger that extends toward Grass Lake. Use the hiking trail as the divider. Other Aspen should regenerate well along with a mix of other species would be preferred. Comments: Next Steps: 68 53032068-Cut 21.7 42210 - Natural High Density Log 87 Harvest Single Tree Selection 42260 - Natural Cmpt. Review Red Pine Pine, Mixed Proposal Deciduous Prescription Selectively mark pine and cut aspen and hardwoods. Leave any cavity trees. Mark the stand down to about 60-80 sq. ft. Specs: <u>Other</u> Comments: <u>Next</u> Steps:

S t	Pigeon	Pigeon River Country Mgt. Unit				atments Pre _imiting Fact		Compartment: 032 Year of Entry 2013	DNR DNR
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
74	53032074-Cut	32.6	4130 - Aspen	High Density Pole	38	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
Pres Spec		with no	retention as agreed u	pon at pre-review.					·
<u>Othe</u> Com	<u>r</u> ments:								
<u>Next</u> Step	<u>S:</u>								
78	53032078-Cut	51.7	4110 - Sugar Maple Association	High Density Log	89	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
Pres Spec							ethod. Hemlock pockets pecies mix that already e		y cavity trees
<u>Othe</u> Com	<u>r</u> ments:								
<u>Next</u> Step:	<u>s:</u>								
79	53032079-Cut	102.1	42210 - Natural Red Pine	High Density Log	84	Harvest	Seed Tree	42210 - Natural Red Pine	Cmpt. Review Proposal
Pres Spec			throughout stand to e	ncourage natural re	generati	on of red pine. A	A mix of other species w	ill be acceptable for rec	generation
<u>Othe</u> Com	<u>r</u> Encoura <u>ments:</u>	ge as m	nuch scarification throu	igh the logging proc	ess as p	ossible to promo	ote red pine regeneration	I.	
<u>Next</u> Step:									
4	NF_53032004- NonFor	3.5	4134 - Aspen, Spruce/Fir		41	Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
Pres Spec	<u>cription</u> : <u>s:</u>								
<u>Othe</u> Com	<u>r</u> ments:								
<u>Next</u> Step:	<u>s:</u>								
13	NF_53032013- NonFor	1.4	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
Pres Spec		mainte	nance to enhance gra	sses					
<u>Othe</u> Com	<u>r</u> ments:								
<u>Next</u> Step:	<u>S:</u>								
21	NF_53032021- NonFor	1.6	Non-Forested		0	Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
Pres Spec		mainte	nance to enhance gra	sses.					
<u>Othe</u> Com	<u>r</u> ments:								
<u>Next</u> Step:	<u>s:</u>								

Pigeon River Country Mgt. Unit

Table 3 -- Treatments Prescribedwith No Limiting Factor

Compartment: 032 Year of Entry 2013

S t	-			v	vith No L	imiting Facto	or	Year of Entry 2013	DNR DNR FR
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
69	NF_53032069- NonFor	26.3	Non-Forested		0	Non-Forest Management	Brush Cutting	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
Pres Spec		cally treat	t to set back brush an	d cherry.					
<u>Othe</u> Com	er_ iments:								
<u>Next</u> Step									
76	NF_53032076- NonFor	12.9	Non-Forested		0	Non-Forest Management	Brush Cutting	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
Pres Spec		cally trea	t to set back the brush	and cherry.					
<u>Othe</u> <u>Com</u>	e <u>r</u> iments:								
<u>Next</u> Step									
A	Total Treatmer creage Propose		5.5						

S t a	Pigeon	River Cou	ntry Mgt. Unit	Table 4		ents Prescrib ng Factor	Compartment: 032 Year of Entry 2013	DI NATURA PROVINCE	
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Presc Spece	<u>ription</u> s:								
<u>Other</u> Comr									
<u>Next</u> <u>Steps</u>	<u>::</u>								
	ng Factor and N ment Reason	0_							
Ac	Total Treatme creage Propose		0						

Year	of	Entry:	2013
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OF NATURA

Out of YOE -- Treatments Prescribed with No Limiting Factor

	Prescribed with No Limiting Factor										
Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status			
Prescription Specs:											

<u>Other</u> Comments:

<u>Next</u> Steps:

> **Total Treatment** Acreage Proposed:

0

S t				5 – For	ested Sta	nds Compartment: 032 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42330 - Upland Fir	High Density Pole	9.4	38	51-80	
2	42110 - Planted Red Pine	High Density Log	53.9	Uneven Age		Cut in 1994. Everything was cut except pine and oak. Pine BA is highly variable.
3	4311 - Pine, Aspen Mix	High Density Pole	17.4	47	51-80	
5	4130 - Aspen	High Density Sapling	32.6	26		
6	6122 - Black Spruce	High Density Pole	223.0	86	111-140	Good quality spruce and cedar.
7	4133 - Aspen, Mixed Pine	Low Density Sapling	16.4	Uneven Age		stand cut in 2006
8	4123 - Red Oak	Low Density Sapling	6.6	Uneven Age		Heavy browse damage to maple and aspen. Pine is filling in the stand gradually.
9	42210 - Natural Red Pine	High Density Log	42.0	83	111-140	This stand had all but Pine and Oak removed in 1994-95.
10	4311 - Pine, Aspen Mix	High Density Pole	23.9	Uneven Age	51-80	
11	4130 - Aspen	High Density Sapling	1.6	29		
12	4123 - Red Oak	Medium Density	21.1	Uneven Age		
14	42110 - Planted Red Pine	Medium Density Log	65.0	Uneven Age	1-50	This stand was cut in 1994-95 and had all but Pine and Oak cut. Some browsing but not too bad.
15	4199 - Other Mixed Upland Deciduous	High Density Pole	9.7	50		
17	4130 - Aspen	Medium Density	8.6	17		
18	4130 - Aspen	High Density Sapling	19.8	26		
20	4130 - Aspen	High Density Sapling	21.8	25		
22	4130 - Aspen	High Density Pole	53.2	38	51-80	Pine and Oak was left as residual after stand was cut in 1973.
24	42290 - Natural Mixed Pine	High Density Log	6.1	73	51-80	Composition of stand varies throughout. Dead JP is increasing.

S t	Pigeon River Country Mgt. Unit			5 – For	rested Sta	nds Compartment: 032 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	42110 - Planted Red Pine	High Density Log	26.7	74	81-110	Aspen and hardwood has already been cut out.
27	6118 - Lowland Deciduous with Cedar	Medium Density Pole	2.1	84	1-50	Ash is dying
28	4130 - Aspen	High Density Sapling	13.9	26		
29	6120 - Lowland Cedar	Low Density Pole	11.9	84		This stand is mostly dead. Most likely, due to higher water levels.
30	4131 - Aspen, Oak	Low Density Sapling	14.6	Uneven Age		Some browse damage. Regeneration didn't appear to come back strong in places. This stand was mostly Red Maple and Birch when cut and they left the Oak and Hemlock.
31	42220 - Natural Jack Pine	Low Density Sapling	19.1	6		
32	4134 - Aspen, Spruce/Fir	High Density Pole	20.1	41	81-110	Creek bed runs though north edge of stand into Grass Lake.
33	4130 - Aspen	High Density Pole	9.4	38	1-50	Nice emerging pole stand with Oak component
34	6125 - Lowland Black Spruce, Jack Pine	Medium Density Pole	14.3	Uneven Age		Treed Bog
35	4130 - Aspen	High Density Sapling	6.5	38		Emerging pole stand of decent quality
36	4123 - Red Oak	High Density Log	7.4	93		This stand was left out of adjacent cut to protect the sink hole lake Devil's Soup Bowl
37	6120 - Lowland Cedar	High Density Pole	5.7	96	81-110	Creek flows through stand into Grass Lake
39	4110 - Sugar Maple Association	High Density Pole	1.2	83		Top of hardwood point that sticks out from the north. Left out of adjacent sale because of steep terrain. The slopes below were cut.
40	42290 - Natural Mixed Pine	High Density Log	45.1	87	81-110	
41	4131 - Aspen, Oak	High Density Sapling	27.3	17	1-50	Stand was cut in 1994. Oak was left along with some pine for residual.
42	4133 - Aspen, Mixed Pine	High Density Pole	18.3	38	1-50	
43	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	15.9	91	111-140	Creek with pathway bridge is within stand.

S t	Pigeon River Country Mgt. Unit			5 – For	rested Sta	nds Compartment: 032 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4130 - Aspen	High Density Pole	3.6	Uneven Age	1-50	Residual pine and oak stand above featured stand of aspen because they were left after the stand was cut in 1973. Emerging nice pole stand of aspen.
45	42260 - Natural Pine, Mixed Deciduous	High Density Log	4.9	84	81-110	Mature stand of poor quality trees. Heavy recreational use by offsite campers.
47	42210 - Natural Red Pine	High Density Log	23.4	87	111-140	
48	42260 - Natural Pine, Mixed Deciduous	High Density Log	3.8	93	81-110	"Grass Lake Overlook" and adjacent side slope is with in this stand. Underbrush on top of overlook is manually cut to preserve view. Trail comes up side-slope. Heavy recreational use by hikers and skiers.
49	6120 - Lowland Cedar	High Density Pole	10.1	93	111-140	Small cedar swamp near hiking trail and draining into Grass Lake
50	42210 - Natural Red Pine	High Density Log	2.0	83	51-80	Small pine pocket on the shore of Grass Lake.
51	42290 - Natural Mixed Pine	High Density Log	3.8	83	111-140	Small pocket of predominantly Pine with heavier hardwood component on the north end. Stand is right on the shore of Grass Lake.
52	4133 - Aspen, Mixed Pine	High Density Pole	5.7	38	51-80	Nice emerging pole stand.
53	4130 - Aspen	High Density Sapling	3.5	26	1-50	
55	4130 - Aspen	High Density Sapling	4.6	26		
56	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	1.6	78	81-110	
57	4136 - Aspen, Mixed Conifer	High Density Pole	3.9	46		
58	4110 - Sugar Maple Association	High Density Log	42.3	84	81-110	Stand was thinned in 1995-97. A good deal of white pine was removed. More Oak in the south and west part of the stand.
59	42250 - Pine, Oak	Medium Density Log	21.2	Uneven Age	51-80	This stand had everything removed but Red Pine, White Pine and Oak in 1985. Advanced Aspen and hardwood regeneration.
60	4199 - Other Mixed Upland Deciduous	Low Density Sapling	3.8	15		This stand was part of a larger hardwood thinning that had a concentrated portion of white pine that was removed creating this open stand.
62	42220 - Natural Jack Pine	Low Density Sapling	21.6	6		Stand was cut in 2005. Jack Pine is regenerating well.

S t	Pigeon River Country Mgt. Unit			5 – For	rested Sta	nds Compartment: 032 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4130 - Aspen	High Density Sapling	6.7	26		
64	42210 - Natural Red Pine	High Density Log	38.7	Uneven Age	81-110	Stand had all but pine and oak removed in 1965-66. Aspen not quite big enough to. Allow it to develop one more rotation.
65	4139 - Aspen, Mixed Deciduous	High Density Pole	3.0	46	51-80	
66	4110 - Sugar Maple Association	Medium Density Log	17.7	Uneven Age	51-80	Heavily cut in 1995-97. All "soft" hardwood and all white pine removed. Poor quality hardwoods were left, so should be managing for the regeneration that's left.
67	42200 - Natural White Pine	Medium Density Log	16.4	Uneven Age	51-80	This stand had everything cut but red pine, white pine and oak.
68	42210 - Natural Red Pine	High Density Log	21.7	87	111-140	
70	42200 - Natural White Pine	High Density Log	24.3	83	81-110	Older stand. Aspen in poor condition. High recreation use area. Leaving this stand would protect the watershed from Grass Lake flowing into the Pigeon River.
71	4110 - Sugar Maple Association	High Density Log	49.3	84	81-110	
72	42200 - Natural White Pine	Medium Density Log	35.4	Uneven Age	51-80	Heavy thinning in 1994. Everything cut but red and white pine and oak. Heavy white pine regeneration throughout the stand.
74	4130 - Aspen	High Density Pole	32.6	38	51-80	Overall, good Aspen. There is some areas where the quality is not so good. Oak and pine were residual from last cut.
75	42210 - Natural Red Pine	High Density Log	16.2	83	141-170	This stand was left out of any past cutting due to pathway and Section 4 Lake influence.
77	42210 - Natural Red Pine	High Density Log	6.7	83	111-140	Small acreage of mature pine with south half on a relatively steep slope along the creek. It also has hiking trail passing thru it.
78	4110 - Sugar Maple Association	High Density Log	51.7	89	141-170	Older, mature hardwood with some larger diameter trees. this stand doesn't appear to ever have been thinned at all. North end of stand is generally smaller diameter.
79	42210 - Natural Red Pine	High Density Log	102.1	84	81-110	This stand had aspen and hardwood removed in 1994. West end was cut heavier, so there is more advanced regeneration.
80	4130 - Aspen	High Density Pole	13.2	90	81-110	Stand occupies steep side slope with hiking trail following all along the bottom.

S t	Pigeon River Country Mgt. Unit			5 – Foi	ested Sta	nds Compartment: 032 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
82	4133 - Aspen, Mixed Pine	High Density Pole	9.0	91	51-80	Steep slope of Aspen leading to the river bottom along the Pigeon River. too steep for harvesting operations and also presents an erosion threat.
83	6120 - Lowland Cedar	Low Density Pole	21.7	101	51-80	Wet, river bottom stand. Poor quality timber.
84	6120 - Lowland Cedar	High Density Pole	25.9	103	111-140	Pigeon River (Natural River) passes thru stand. Thick Cedar stand along river - good cover.
85	6120 - Lowland Cedar	High Density Pole	3.1	103	111-140	Nice stand of cedar along Pigeon River. Left uncut after stand 86 was cut.
86	6122 - Black Spruce	Medium Density	7.8	15		winter deer cut in 1986
88	42260 - Natural Pine, Mixed Deciduous	High Density Log	15.8	81	111-140	Mature pine on steep sidehill and ravines sloping toward the river bottom of Pigeon River. The bottom ends in a Cedar swamp. No real good way out.
89	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	14.6	94	51-80	Not a uniform stand. Tag Alder is fairly uniform throughout. Stand lies within Natural River corridor of Pigeon River.
90	42220 - Natural Jack Pine	High Density Pole	12.7	81	81-110	Steep slopes would be difficult to harvest and get the wood. Heavy white pine understory developing well. Manage for white pine by allowing overstory to fall out over time letting the white pine take over.
91	42200 - Natural White Pine	Medium Density Log	1.7	Uneven Age	51-80	Stand was thinned in 2003. Red and White pine was thinned and all other species were cut.
92	42290 - Natural Mixed Pine	High Density Log	14.9	84		
93	42290 - Natural Mixed Pine	High Density Sapling	22.2	28		Mixed pine regeneration - advanced
94	4130 - Aspen	High Density Pole	15.6	49	51-80	
95	42290 - Natural Mixed Pine	High Density Log	4.2	81	111-140	Natural pine stand on some steep slopes, but also part of larger stand in comp 33, stand 11.
96	4115 - Y.Birch, Hemlock NH	High Density Pole	2.6	83	111-140	Part of larger hardwood stand to the east last treated in 1985. Continue to treat with that stand. Significant Hemlock component.
97	42260 - Natural Pine, Mixed Deciduous	High Density Log	4.4	84	111-140	Steep slope with nice timber. More and more hardwood becoming part of the stand. This portion was left out of the sale when stand 98 was cut due to the steep terrain.

S t	Pigeon River Country	Pigeon River Country Mgt. Unit			ested Stan	ds Compartment: 032 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
98	42200 - Natural White Pine	Low Density Log	4.3	Uneven Age	1-50	This stand was cut in 2005 and left some mature pine.
99	42200 - Natural White Pine	High Density Log	3.1	85	81-110	Poor quality white pine.
100	6112 - Lowland Aspen	Low Density Pole	17.3	74	51-80	Scattered aspen and balm along the river bottom.
101	42220 - Natural Jack Pine	High Density Pole	6.0	85	51-80	Moture JP on steep slope leading to Pigeon River.
102	42210 - Natural Red Pine	Medium Density Log	4.8	Uneven Age	1-50	This stand was cut in 2005. It had RP thinned and other species removed. Aspen has had some browse damage.
103	4130 - Aspen	High Density Pole	5.4	37	1-50	Stand was cut in early '70's and was roller chopped in 1974. Nice emerging pole stand.

Pigeon River Country Mgt. Unit

6 – Nonforested Stands

Compartment: 032 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	3102 - Grass	3.5	Yes	Medium (NonForested)	
13	3102 - Grass	1.4	Yes	Medium (NonForested)	
16	3301 - Low Density Deciduous Tree	3.5	No	Unspecified	This opening was created with Tordon in 1973. Scattered Fir but mostly cherry.
19	50 - Water	6.4	No	Unspecified	Beaver flooding
21	3102 - Grass	1.6	Yes	Medium (NonForested)	
23	6220 - Alder/willow	19.3	No	Unspecified	
25	3102 - Grass	2.5	No	Unspecified	
38	50 - Water	1.0	No	Unspecified	Devil's Soup Bowl Lake
46	50 - Water	35.6	No	Unspecified	Grass Lake
54	6220 - Alder/willow	3.7	No	Unspecified	
61	50 - Water	15.2	No	Unspecified	Grass Lake overflow
69	3205 - Mixed Upland Shrub	26.3	Yes	Medium (NonForested)	Cut in 1975 and again in 1993 to create brushy opening. Scattered cherry throughout with pockets of Aspen and scattered hardwood
73	50 - Water	3.5	No	Unspecified	Section 4 Lake
76	3205 - Mixed Upland Shrub	12.9	Yes	Medium (NonForested)	Scattered cherry and clones of aspen. treated with Tordon in 1973 and commercially cut in 1993.
81	6220 - Alder/willow	30.8	No	Unspecified	Tag alder and willow along river bottom
87	6239 - Mixed Emergent Wetland	2.4	N\A	Unspecified	Marsh grass, backwater flowage into river
104	3102 - Grass	1.5	No	Unspecified	Open area within Elk Hill Campground, part of which slopes down to the river.



7 - 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.

Stand	SCA Type	SCA Name	Acres	Comments



8 – 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.

Conservatio Area	on Type	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 oxygen conditions that allow naturally stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to year to year. Coldwater streams in Michigan typically provide these conditions due to sub contributions of groundwater to their stream flows. Such streams are established by Direct designated as trout resources by Fisheries Order 210.		es (e.g., slimy sculpin) to persist from se conditions due to substantial	
SCA	Concentrated Recreation Area	- · · · · · · · · · · · · · · · · · · ·	
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10 and Vegetative Buffers for each Natural River see the table locat folder.	S Zoning District is a 400 foot buffer for D0 feet. To view specific Zoning Districts