



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53008

Entry Year 2017

Acreage: 1,684

County Cheboygan

Management Area: Pigeon River Country

**Revision Date:** 2015-06-22

**Stand Examiner:** Richard McDonald

**Legal Description:**

T33N - R01W sections 5, 8, 17

**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:**

Uplands are generally rolling to mostly level. Soils are predominantly sand of varying associations including, Rubicon, Au Gres, and Cheboygan sands.

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

A large block of private land intersects section 5. Aside from a small portion of private land in the south end of the compartment, the rest is solid state land. Land use in the compartment and surrounding area is primarily recreation.

**Unique Natural Features:**

A representative from Michigan's Natural Features Inventory will be on hand at the formal compartment review.

**Archeological, Historical, and Cultural Features:**

None identified.

**Special Management Designations or Considerations:**

None identified.

**Watershed and Fisheries Considerations:**

The Pigeon River (a natural river) with a couple of small tributaries run through the compartment.

**Wildlife Habitat Considerations:**

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

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 100 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State. There are no nearby former gravel pits, but there should be good potential on the uplands. This area was previously leased for oil and gas development. The Antrim Shale subcrops in this area, but appears to be too thin for production. The Niagaran reef trend is located five miles to the southeast. There is limited oil and gas potential for known producing formations in this compartment.

Consistent with the objectives of the Concept of Management there are no plans to engage in mining activities (sand, gravel, stone, etc.) or oil and gas development in this Compartment. Nondevelopment (no surface infrastructure including pipelines, new roads, utility lines, well pads, etc.) oil and gas leasing may be considered.

**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:**

A small part of the High Country Pathway runs through the southeast portion of section 17.

**Fire Protection:**

Access is poor 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 reports from the Inventory are attached:

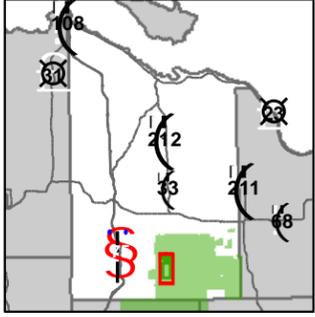
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

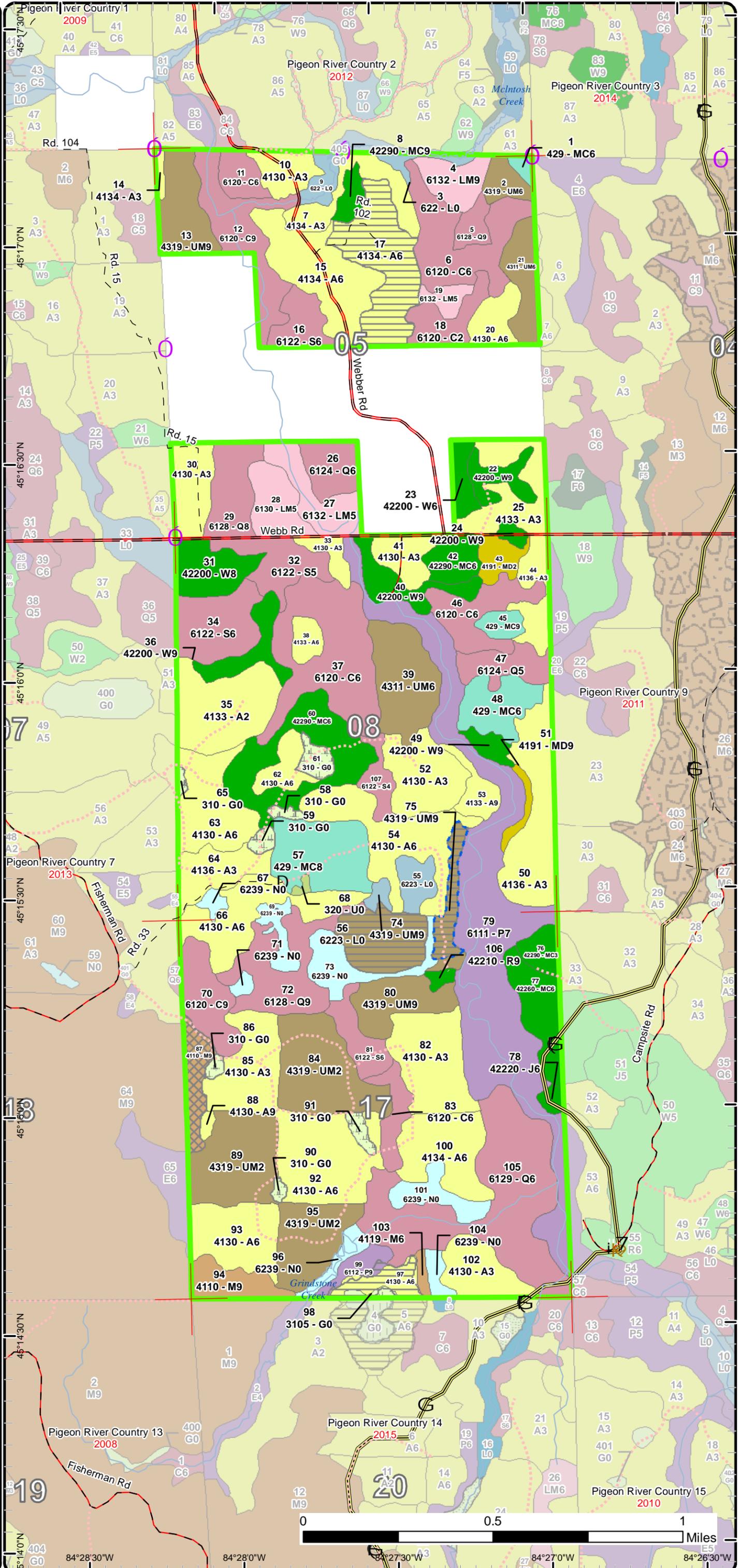
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments

Compartment: 8  
 T33N,R01W, Sec. 5, 8, 17  
 County: Cheboygan  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2017  
 Acres: 1684 GIS Calculated  
 Examiner: Richard McDonald  
 Map Revised: 6/22/2015  
 Map Phase: Pre-Review

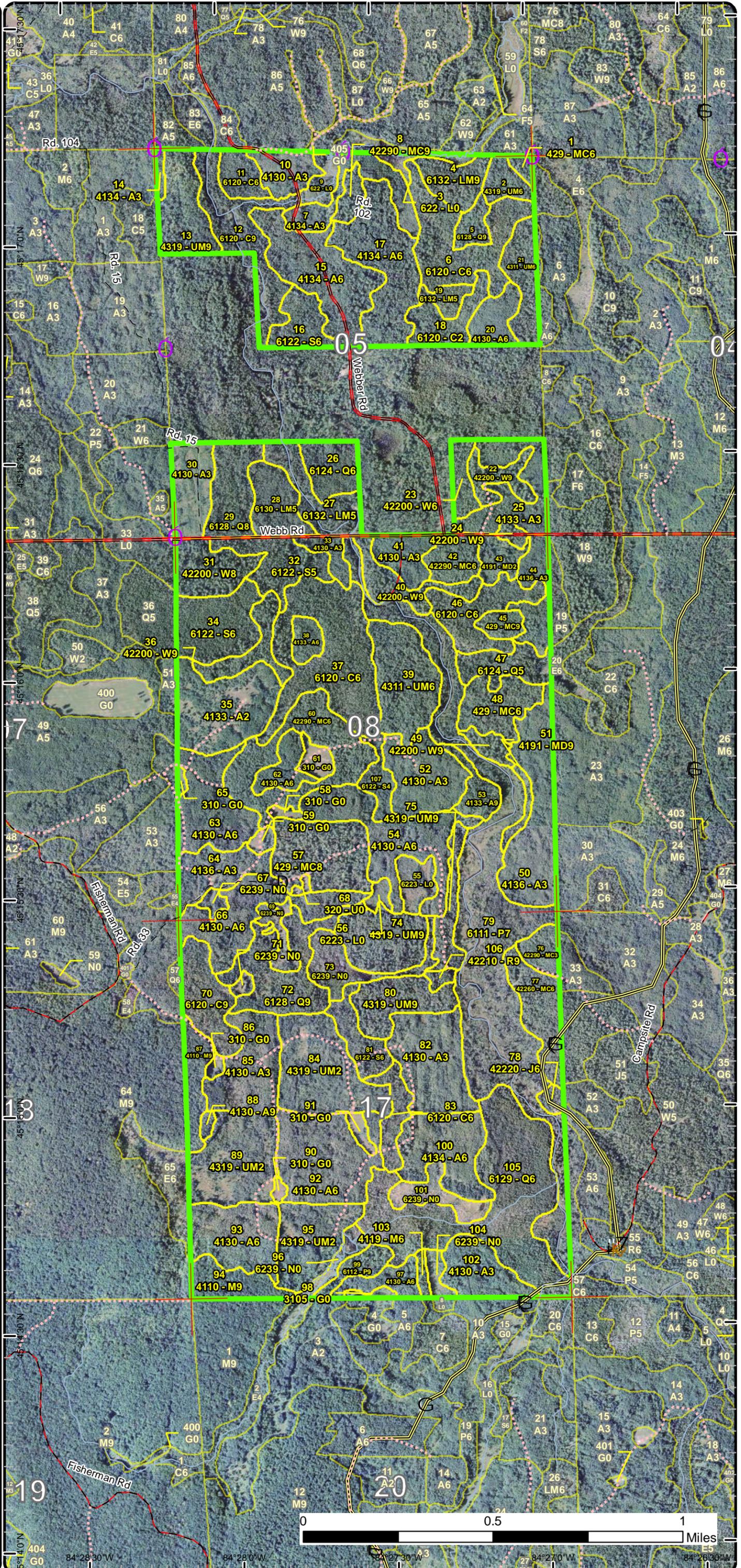
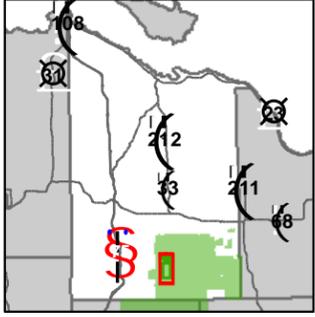


- Remonumented Section Corner
- Miris Corners
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Gate
- Campground
- Parking Lot
- Trailhead
- Bike Trails
- Hiking Trails
- Ski Trails
- Rivers
- Lakes
- Treatments with Site Conditions
- Treatments**
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Forest Covertype**
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Covertype**
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 623 - Emergent Wetland

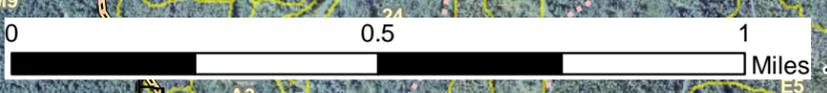


# Stand Boundary Map

Compartment: 8  
 T33N,R01W, Sec. 5, 8, 17  
 County: Cheboygan  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2017  
 Acres: 1684 GIS Calculated  
 Examiner: Richard McDonald  
 Map Revised: 6/22/2015  
 Map Phase: Pre-Review



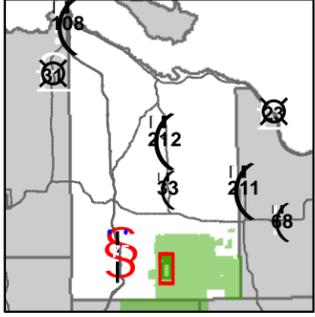
- Remonumented Section Corner
- Miris Corners
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Gate
- Campground
- Parking Lot
- Trailhead
- Bike Trails
- Hiking Trails
- Ski Trails
- Rivers
- Stand Boundaries



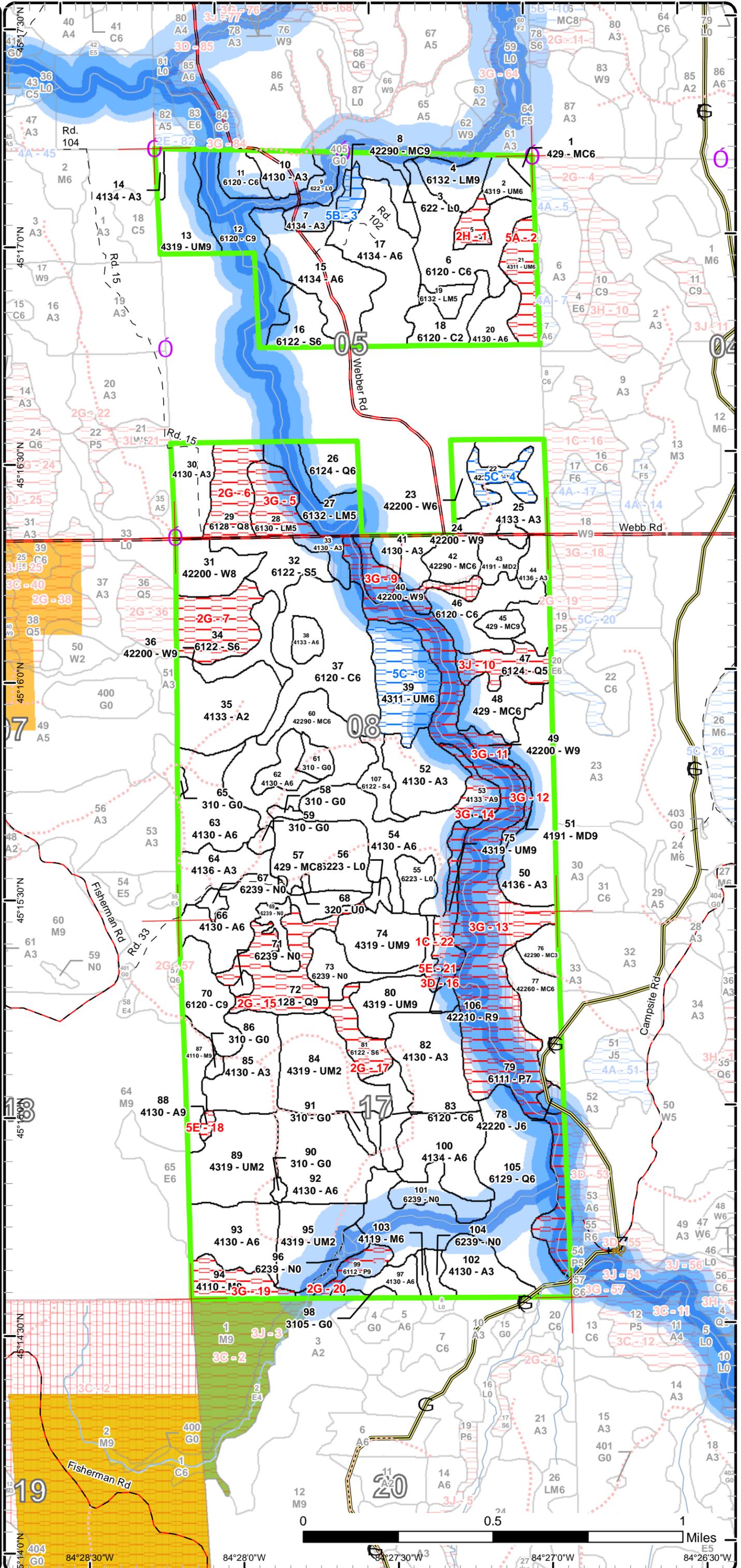
45° 10' 0" N 84° 28' 30" W 84° 27' 30" W 84° 26' 30" W  
 45° 15' 30" N 45° 16' 30" N 45° 17' 30" N 45° 18' 30" N

# Special Conservation Areas & Site Conditions Map

Compartment: 8  
 T33N,R01W, Sec. 5, 8, 17  
 County: Cheboygan  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2017  
 Acres: 1684 GIS Calculated  
 Examiner: Richard McDonald  
 Map Revised: 6/22/2015  
 Map Phase: Pre-Review



- Remonumented Section Corner
- Miris Corners
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Gate
- Campground
- Parking Lot
- Trailhead
- Bike Trails
- Hiking Trails
- Ski Trails
- Rivers
- Stand Boundaries
- Site Condition
  - Available w/ Constraints
  - Unavailable
- Special Conservation Areas
  - Natural Rivers Vegetative Buffer
  - Natural Rivers Zoning District
  - Cold Water Streams
  - Cold Water Lakes
  - Non-Dedicated Natural Areas and National Natural Landmarks
  - High Priority Trout Stream Buffer
  - Verified Type 2 Old Growth
  - Possible Type 2 Old Growth Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	16	2	212	252	44	0	2	8	0	0	0	0	0	0	0	0	36	572
Cedar	0	0	0	13	0	0	0	0	0	0	50	0	107	0	0	0	0	10	180
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Jack Pine	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	128	0	0	0	0	0	0	0	0	0	128
Lowland Conifers	0	0	0	0	0	0	0	0	13	18	30	0	19	0	0	0	0	78	158
Lowland Mixed Forest	0	0	0	0	0	0	0	12	17	15	0	0	0	0	0	0	0	5	49
Lowland Shrub	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	11	23	0	0	0	0	0	0	37	71
Marsh	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Mixed Upland Deciduous	0	0	8	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	11
Natural Mixed Pines	0	0	0	0	7	0	53	0	0	0	0	5	0	0	0	0	0	10	75
Northern Hardwood	0	0	0	0	0	0	0	2	0	0	24	0	0	0	0	0	0	0	26
Red Pine	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	0	2	17	5	0	29	0	0	0	0	0	0	0	53
Upland Mixed Forest	0	0	0	59	32	0	7	28	51	15	0	0	0	0	0	0	0	20	212
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	0	0	18	0	0	9	0	0	17	0	18	62
<b>Total</b>	<b>83</b>	<b>16</b>	<b>10</b>	<b>284</b>	<b>291</b>	<b>44</b>	<b>65</b>	<b>61</b>	<b>224</b>	<b>80</b>	<b>156</b>	<b>5</b>	<b>135</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>214</b>	<b>1685</b>



## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 0  
Harvests with Site Condition - 9  
Next Step Harvest - 0  
Habitat Cut - 17

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	46	0	0	0	0	0	0	0	0	46
Northern Hardwood	0	11	0	0	0	0	0	0	0	11
Upland Mixed Forest	31	0	0	0	0	0	0	0	0	31
<b>Total</b>	<b>77</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>88</b>

### Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	88	0	0	0	0	0	0	17	0	104
Next Step	0	0	0	0	0	88	0	0	0	88
<b>Total</b>	<b>88</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>88</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>192</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
17	53008017-Cut	36.4	4134 - Aspen, Spruce/Fir	Poletimber Well	66	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with 2-3 retention islands left along with marking to leave some individual mature pine. Along the east boundary with stand 6 there is an opportunity to cut some nice mature Cedar along that transition zone of the swamp. Stand 6 starts to get pretty wet the further east you go, so any cutting will be limited to along the boundary.

Next Step ; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen should regenerate well here but a mix of representative species that now exist in the stand will be acceptable in determining regeneration success.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

58	53008058-NF	1.6	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
----	-------------	-----	---------------------------	------------	--	-------------	--------------	-----------------	---------------------------	--	----------

**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step  
Treatments:

Acceptable Regen:

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

59	53008059-NF	2.4	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
----	-------------	-----	---------------------------	------------	--	-------------	--------------	-----------------	---------------------------	--	----------

**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step  
Treatments:

Acceptable Regen:

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

61	53008061-NF	4.5	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
----	-------------	-----	---------------------------	------------	--	-------------	--------------	-----------------	---------------------------	--	----------

**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step  
Treatments:

Acceptable Regen:

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016



S t 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
65	53008065-NF	0.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

68	53008068-NF	1.0	320 - Upland Shrub Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
----	-------------	-----	--------------------------------	------------	--	-----------------	--------------	-----------------	---------------------------------	--	----------

**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

74	53008074-Cut	21.9	4319 - Mixed Upland Forest	Sawtimber Well	79	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
----	--------------	------	-------------------------------	-------------------	----	--------	---------	----------------------------	-------------	-----------	----------

**Habitat Cut: No**

**Site Condition:**

Prescription Clear cut with 2-3 retention islands along with a few individual retention trees. Some larger diameter trees (1 per 2 acres) should felled and left to lay for drumming log purposes.

Specs:

Next Step

Treatments:

Acceptable Moderate to well-stocked Aspen and mixed conifer regeneration will be acceptable in determining regeneration success.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

75	53008075-Cut	8.8	4319 - Mixed Upland Forest	Sawtimber Well	79	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
----	--------------	-----	-------------------------------	-------------------	----	--------	---------	----------------------------	-------------	-----------	----------

**Habitat Cut: No**

**Site Condition: Other Dept./Div. Processes**

Prescription Clearcut with retention pockets and a few scattered individuals. Stand falls within the Natural River corridor so has been limiting factored. Due to lack of space to work because of the terrain, any landings may have to be back up the road where it turns south which could make things difficult.

Specs:

Next Step

Treatments:

Acceptable Moderately or well stocked Aspen and mixed conifer regeneration will be acceptable in considering success.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



S  
t  
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
86 53008086-NF	1.5	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

87 53008087-Cut	11.0	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Proposal
-----------------	------	--------------------------------	----------------	----	---------	---------	-----------------------	-------------------------	-----------	----------

**Habitat Cut: No**

**Site Condition:**

Prescription Selection cut while creating larger canopy gaps to get regeneration established.

Specs:

Next Step

Treatments:

Acceptable

A mixture of hardwood species will be acceptable in determining success, however, more valued species like Sugar Maple or White Ash will be preferred.

Other Part of larger stand (64) in compartment 7 which will probably be prescribed for cutting in 2023. This whole stand has been thinned in the past.

Comment: Old next step comments:

Proposed Start Date: 10/1 /2022

90 53008090-NF	1.2	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
----------------	-----	---------------------------	------------	--	-------------	--------------	-----------------	---------------------------	--	----------

**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

91 53008091-NF	2.8	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
----------------	-----	---------------------------	------------	--	-------------	--------------	-----------------	---------------------------	--	----------

**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



S t 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
97	53008097-Cut	9.5	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Approved Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with no retention due to its small size.

Specs:

Next Step

Treatments:

Acceptable Currently, this stand is a mix of aspen, hardwoods and conifers. Though aspen is the objective and preferred and is expected to respond well, any combination of the current species mix will be acceptable in determining regeneration success.

Other This stand is currently marked and on proposal as part of a sale (53-007-15-01) with stand 5 in compartment 14 in 2015. Old next step comments:

Proposed Start Date: 10/1 /2016

98	53008098-NF	0.8	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
----	-------------	-----	--------------------------------	------------	--	--------------	--------------	-----------------	---------------------------	--	----------

**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment Acreage Proposed: 104.4**

Dominant Site Conditions

	2G	2H	3D	3G	3J	5A	5B	5C	5E
Aspen				8					2
Cedar									
Herbaceous Openland									
Jack Pine									
Lowland Aspen/Balsam Poplar	6			121					
Lowland Conifers	48	6			13				
Lowland Mixed Forest				15					
Lowland Shrub									
Lowland Spruce/Fir	35								
Marsh									
Mixed Upland Deciduous				3					
Natural Mixed Pines							5		
Northern Hardwood				13					
Red Pine			2						
Upland Conifers									
Upland Mixed Forest						15		28	2
Upland Shrub									
White Pine				17				9	
Total Forested Acres	88	6	2	177	13	15	5	37	3
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 Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A little higher ground of predominantly Hemlock surrounded by wet cedar swamp.							

## Report 5 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 8

Richard McDonald : Examiner

Year of Entry: 2017

2	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Majority of the stand lies within the Natural River influence zone.							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Pigeon River Country Mgt. Unit  
Richard McDonald : Examiner

Compartment: 8  
Year of Entry: 2017

8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lies within the Natural River influence zone for the Pigeon River also contains a popular camping site.							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Pocket of mature White Pine that lies along the Natural River zone of the Pigeon River.							
12	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Relatively steep bank that lies within the Natural River zone of the Pigeon River.							
13	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	121	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Pigeon River floodplain part of the Natural River zone.							

## Report 5 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 8

Richard McDonald : Examiner

Year of Entry: 2017

14	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	8	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> steep bank along the Natural River zone of the Pigeon River							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	2	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Walker cabin in this stand and also lies within the natural river zone.							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Though I don't believe it is officially part of the Grindstone Creek Hardwood Natural Area, because it is a small piece that borders it and is directly adjacent to Grindstone Creek I will treat as such.							

## Report 5 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 8

Richard McDonald : Examiner

Year of Entry: 2017

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	1C: Other dept or div proc/practices	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## 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
<b>Comments</b>				



## Report 7 – 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.

ERA = Ecological Reference Area

HCVA = High Conservation Value Area

SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Potential Old Growth Areas	This category contains stands were identified for a broad range of reasons and were coded in the OI database as stand condition 8 as potential old growth (POG). Approximately 310,000 acres have been identified through the Operations Inventory (OI)/Compartment Review process. For stands in Year of Entry 2008 and forward, potential old growth is managed for the identified objective until it is: 1) vetted through the Biodiversity Conservation Planning Process (BCPP) and given a specific designation and objective (as an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation; or 2) it is released from the potential old growth designation via the Compartment Review process.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	429 - Mixed Upland Conifers	Poletimber Well	2.2	55	81-110	Aspen component is falling out of this stand and converting to Pine/Fir. Difficult access for this poor quality stand.
2	4319 - Mixed Upland Forest	Poletimber Well	7.0	55	51-80	Poor access to this area. Access would have to be from the east but most of the stands to the east have been treated so creating a road through regenerating stands would not be desirable. This stand along with stand 1 should be left for retention.
4	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	12.1	69	81-110	Wet stand with some timber dying.
5	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	5.8	111	141-170	Unique Hemlock island in Cedar deer yard. Wet surrounding stand with no access.
6	6120 - Lowland Cedar	Poletimber Well	32.6	115	81-110	Deer yard. Stand is fairly wet much of the year. Black Ash component has pretty much died out. Not good quality wood.
7	4134 - Aspen, Spruce/Fir	Sapling Well	16.1	27	Immature	
8	42290 - Natural Mixed Pine	Sawtimber Well	5.1	101	51-80	Poor site aspen with White Pine underneath. Access to this stand would be difficult at best and would have to go through existing clearcut stands. I recommend allowing white pine to advance. Adjoining stand to the east has been severely impacted by browsing.
10	4130 - Aspen	Sapling Well	10.5	27	Immature	
11	6120 - Lowland Cedar	Poletimber Well	8.3	115	81-110	Side hill dropping down to the Pigeon River. Difficult to work with no landing area. Part of stand, if not most, would fall inside the natural river zone.
12	6120 - Lowland Cedar	Sawtimber Well	28.0	115	141-170	Pigeon River bottom subject to Natural river restrictions. Black Ash component has died out due to EAB.
13	4319 - Mixed Upland Forest	Sawtimber Well	20.1	105	81-110	Difficult access. Moderately wet ground and not real good quality hardwood. Fair amount of deer activity throughout the stand.
14	4134 - Aspen, Spruce/Fir	Sapling Well	1.8	17	Immature	This is part of a larger stand to the west.
15	4134 - Aspen, Spruce/Fir	Poletimber Well	35.5	45	81-110	Mixed aspen and conifer stand. Aspen size is not ready yet.
16	6122 - Black Spruce	Poletimber Well	11.8	101	51-80	
17	4134 - Aspen, Spruce/Fir	Poletimber Well	36.4	66	81-110	Aspen with mixed conifer. Aspen size does vary throughout the stand.

Stand	Pigeon River Country Mgt. Unit		Report 8 – Forested Stands			Compartment: 8	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2017	
18	6120 - Lowland Cedar	Sapling Medium	12.8	25	1-50		
19	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	4.9	66	1-50		quite wet. Poor site.
20	4130 - Aspen	Poletimber Well	10.1	36	1-50		
21	4311 - Pine, Aspen Mix	Poletimber Well	14.9	80	51-80		
22	42200 - Natural White Pine	Sawtimber Well	9.0	115	81-110		Mature pine that had everything cut out of it around 1980. Heavy regeneration of aspen, white pine and fir. This stand was cut with stand 25 but has a larger concentration of mature pine than that stand. The two stands should be treated together.
23	42200 - Natural White Pine	Poletimber Well	6.8	80	51-80		Strip of predominantly white pine along private property. Not a real desirable stand. Treat with adjacent stands 22 and 25 when they are ready.
24	42200 - Natural White Pine	Sawtimber Well	2.5	115	81-110		
25	4133 - Aspen, Mixed Pine	Sapling Well	22.0	35	Immature		
26	6124 - Lowland Spruce-Fir	Poletimber Well	12.8	75	81-110		Mixed conifer swamp that is locked between the Pigeon River and private property. No access to this stand, but it is rather poor quality anyway.
27	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	16.7	75	51-80		Pigeon River bottom. Natural River influence zone.
28	6130 - Fir, Aspen, Maple	Poletimber Medium	14.8	89	51-80		Wet aspen/swamp conifer stand of poor quality within the Natural river influence zone.
29	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	18.5	89	51-80		Wet, poor quality swamp
30	4130 - Aspen	Sapling Well	15.8	8	Immature		This stand is considered fully-stocked, but there are some open areas that are influenced by standing water.
31	42200 - Natural White Pine	Sawtimber Medium	16.4	118	51-80		Mature White Pine stand left along road for aesthetic reasons. The stand is interspersed with low, wet swales.
32	6122 - Black Spruce	Poletimber Medium	17.5	96	1-50		Very wet stand with sparse timber and heavy Alder and Willow underbrush. Water drains into channel along Webb Road and runs into the Pigeon River.
33	4130 - Aspen	Sapling Well	5.6	25	Immature		





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	6122 - Black Spruce	Poletimber Well	23.5	96	111-140	Fairly wet stand, fully stocked timber with bog-type ground cover.
35	4133 - Aspen, Mixed Pine	Sapling Medium	32.8	25	Immature	Heavily browsed stand in the early stages of regeneration with severe impact to aspen. White Pine is open-grown and bushy. A few Elk seem to winter in this area as four bulls were seen in this stand.
36	42200 - Natural White Pine	Sawtimber Well	11.5	81	51-80	Narrow saddle sticking out into swamp that is generally a poor site quality with poor quality trees.
37	6120 - Lowland Cedar	Poletimber Well	49.7	96	81-110	poor quality swamp. Very wet in some areas creating variable timber. Interior is poorer quality and there seems to be quite a bit of surface water moving through this stand. A small creek flows into this stand from the southwest arm of this stand.
38	4133 - Aspen, Mixed Pine	Poletimber Well	5.5	35	51-80	
39	4311 - Pine, Aspen Mix	Poletimber Well	28.4	62	81-110	Aspen is in real poor shape. Let stand convert naturally to White Pine. Stand is also immediately adjacent to Pigeon River Natural River corridor.
40	42200 - Natural White Pine	Sawtimber Well	12.7	146	111-140	Stand of mature White Pine along the Pigeon River bank. The stand does drop down and includes some Cedar. It falls within the Natural River corridor which prevents any treatment, but besides that, there is a very popular campsite that is within this stand and overlooks the river.
41	4130 - Aspen	Sapling Well	10.6	25	Immature	
42	42290 - Natural Mixed Pine	Poletimber Well	10.4	45	81-110	Multi-aged pine stand with mixed aspen and hardwood. Poor aspen in general. This stand composition and age class makeup is not well represented in this area. It could work well as a retention stand considering it's on a county road intersection.
43	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	7.6	17	Immature	Wet stand in spots. Regeneration is spotty for aspen but filling in with other species.
44	4136 - Aspen, Mixed Conifer	Sapling Well	12.8	25	Immature	
45	429 - Mixed Upland Conifers	Sawtimber Well	5.0	79	81-110	No good access to this stand. A pine knob surrounded by low ground and drainages on two sides.
46	6120 - Lowland Cedar	Poletimber Well	19.3	117	81-110	
47	6124 - Lowland Spruce- Fir	Poletimber Medium	12.8	117	51-80	Wet stand with creek flowing through it into the Pigeon River. Due to periodic beaver activity, part of the stand has died out leaving some open marsh areas.

S  
t  
a  
n  
d

## Pigeon River Country Mgt. Unit

## Report 8 – Forested Stands

Compartment: 8  
Year of Entry: 2017

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
429 - Mixed Upland Conifers	Poletimber Well	16.9	69	81-110	
42200 - Natural White Pine	Sawtimber Well	4.7	149	81-110	Mature pine stand along Pigeon River and lies within the natural river influence zone.
4136 - Aspen, Mixed Conifer	Sapling Well	35.8	27	Immature	
4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.2	80	51-80	
4130 - Aspen	Sapling Well	23.6	25	Immature	
4133 - Aspen, Mixed Pine	Sawtimber Well	7.7	73	111-140	
4130 - Aspen	Poletimber Well	36.6	33	51-80	
429 - Mixed Upland Conifers	Sawtimber Medium	29.1	90	51-80	This stand had all the aspen cut out of it within the last 10 years. They left all white pine and red maple along with some balsam fir. Aspen regeneration is spotty depending on how thick the residual stand is.
42290 - Natural Mixed Pine	Poletimber Well	34.3	59	81-110	Mixed pine and aspen. Wait one more rotation to this stand.
4130 - Aspen	Poletimber Well	8.7	33	1-50	
4130 - Aspen	Poletimber Well	26.8	33	51-80	Nice, well-stocked aspen stand should be ready next entry.
4136 - Aspen, Mixed Conifer	Sapling Well	15.9	24	Immature	Young aspen with some areas mostly white pine and fir. Some wet areas.
4130 - Aspen	Poletimber Well	29.1	33	51-80	Nice emerging pole stand with some wet areas.
6120 - Lowland Cedar	Sawtimber Well	18.8	111	171-200	Nice Cedar but wet at present time. Opportunity to cut some cedar possibly. stand gets even more wet as you go south and east. I worry about stand regeneration with stand being so wet.
6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	29.6	95	81-110	Wet, poor quality swamp.
4319 - Mixed Upland Forest	Sawtimber Well	21.9	79	81-110	Older stand recently part of property the state purchased. It doesn't appear to have ever been cut. Access is very limited with one two tracked trail coming in from the north on a narrow ridge.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	4319 - Mixed Upland Forest	Sawtimber Well	10.6	79	81-110	Narrow stretch along road going into Mainland/Walker cabin and also within the Natural River zone. No treatment.
76	42290 - Natural Mixed Pine	Sapling Well	7.1	30	Immature	Aspen was severely browsed and set back allowing pine to take over. Pine rather open grown and bushy, not leading to good quality.
77	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	18.6	52	81-110	Relatively even aged stand with pine predominating and with some more mature pine mixed throughout the stand. This whole stand slopes toward the river to the west. High Country Pathway passes through the stand.
78	42220 - Natural Jack Pine	Poletimber Well	2.6	52	81-110	Small pocket of Jack Pine along the High Country Pathway commonly called the overlook because it's at a fenced off bluff or washout that overlooks the Pigeon River. Maintain this for its recreational use plus it lies within the Natural River zone.
79	6111 - Lowland Balsam Poplar	Sawtimber Poor	121.1	70	1-50	Pigeon River bottom - Natural River zone.
80	4319 - Mixed Upland Forest	Sawtimber Well	18.3	79	81-110	Mature mix of species doesn't appear to have had any commercial treatment done. The only access to this is a small orv trail coming from the Walker cabin. Not real practical to enter the stand here due to possibly renting the cabin. Recommend leaving for retention purposes.
81	6122 - Black Spruce	Poletimber Well	11.2	84	Unspecified	Low quality and wet.
82	4130 - Aspen	Sapling Well	30.4	24	Immature	
83	6120 - Lowland Cedar	Poletimber Well	9.7	74	51-80	Wet, poor quality. Black Ash is dying out but no real signs of EAB.
84	4319 - Mixed Upland Forest	Sapling Medium	35.7	24	Immature	Aspen never regenerated well after this stand was cut in 1990. Never sure whether it had more to do with the water table, browsing or what.
85	4130 - Aspen	Sapling Well	25.3	33	Immature	Nice, well stocked, emerging pole stand with heavy fir understory.
87	4110 - Sugar Maple Association	Sawtimber Well	11.0	95	111-140	There are other hardwood species in this stand but very widely scattered. This is part of a larger stand to the west in compartment 7. Manage with that stand when its ready to cut. It had a selection cut approximately 20 years ago and should be ready next entry.
88	4130 - Aspen	Sawtimber Well	1.5	66	81-110	Pocket of aspen not cut with adjacent aspen stand due to a wet swale that separates it. this is a natural retention stand. No management.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
89	4319 - Mixed Upland Forest	Sapling Medium	31.8	34	Immature	Did not regenerate well. Fir and Spruce is filling some areas but a lot of area with Tag Alder. Aspen came back in pockets.
92	4130 - Aspen	Poletimber Well	36.4	33	51-80	Well stocked emerging pole stand with some wet areas.
93	4130 - Aspen	Poletimber Well	24.8	33	51-80	Well stocked emerging pole stand coming on nicely, but not ready for treatment yet.
94	4110 - Sugar Maple Association	Sawtimber Well	12.8	95	111-140	Part of a much larger stand to the west in Compartment 7. It will be treated with that stand in its next entry in 2023. Due to its proximity to the Grindstone Hardwood Natural Area we may want to include it with that because it does directly border the Grindstone Creek.
95	4319 - Mixed Upland Forest	Sapling Medium	23.8	24	Immature	Part of this stand is wet and at present has active beavers working in it. Next entry it will probably need to be separated as its own stand.
97	4130 - Aspen	Poletimber Well	8.4	45	81-110	This stand is on proposal (53-007-15-01 Grindstone Aspen) to be cut. It is part of a larger stand to the south.
99	6112 - Lowland Aspen	Sawtimber Well	6.7	75	51-80	Mature Aspen/conifer stand along Grindstone Creek. Some areas with springs making the ground very wet. Falls with Natural River zone so no management.
100	4134 - Aspen, Spruce/Fir	Poletimber Well	26.2	33	1-50	Some wet ares in this stand.
102	4130 - Aspen	Sapling Well	17.3	24	Immature	This stand extends into compartment 14 and is more accessible through that compartment.
103	4119 - Mixed Northern Hardwoods	Poletimber Well	2.1	69	81-110	Narrow strip of mostly hardwood not included in cutting of stand 97 for lower aspen component.
105	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	78.0	95	111-140	The stand structure and composition varies greatly due to differences in water levels throughout the stand. This stand would fall under the Natural River influence zone. It borders the Pigeon River and has the Grindstone Creek and other drainages flowing through it.
106	42210 - Natural Red Pine	Sawtimber Well	2.0	79	81-110	Small pocket of mature predominantly Red Pine surrounding "Walker Cabin" on Pigeon River. Part of this stand lies within the Natural River zone. Potential for cabin rental so this stand should be protected.
107	6122 - Black Spruce	Poletimber Poor	7.7	60	1-50	



Stand	Cover Type	Acres	Managed Site	General Comments:
3	622 - Lowland Shrub	3.8	No	McIntosh Creek bottom
9	622 - Lowland Shrub	6.2	No	McIntosh Creek bottom
55	6223 - Inundated Shrub Swamp	7.8	No	Low, wet inundated shrubs. East part holds much of the water and drains south eventually into the Pigeon River.
56	6223 - Inundated Shrub Swamp	2.6	No	
58	310 - Herbaceous Openland	1.6	Yes	Looks like this opening has been managed in the past, not sure when the last time was.
59	310 - Herbaceous Openland	2.4	No	East part of opening is not manageable. It is a wet, brushy area which holds water part, if not most, of the year. It is probably too small to map out separately.
61	310 - Herbaceous Openland	4.5	No	Managed at one time, but not sure when the last time was.
65	310 - Herbaceous Openland	0.9	No	Part of a larger stand in the adjacent compartment. It could be managed to maintain it if other openings nearby were being worked.
67	6239 - Mixed Emergent Wetland	2.3	No	Marsh in the center with more shrubs along the edges.
68	320 - Upland Shrub	1.0	No	Somewhat of an opening enhanced when the surrounding stand was logged a few years ago while still private property. Several Apple trees have been planted with fencing to protect them from browsing.
69	6239 - Mixed Emergent Wetland	6.3	No	Area with a history of beaver activity which had killed off the timber and left it in a marsh condition. remnant of beaver dam still there.
71	6239 - Mixed Emergent Wetland	1.8	No	
73	6239 - Mixed Emergent Wetland	14.3	No	Old beaver marsh with creek flowing through it. Narrow creek bottom going to the east is mostly Tag Alder. Creek flows east and into the Pigeon River.
86	310 - Herbaceous Openland	1.5	No	Unmanaged grass opening used to be landing area.
90	310 - Herbaceous Openland	1.2	No	Grass opening not maintained by wildlife.
91	310 - Herbaceous Openland	2.8	No	Nice opening could potentially have something planted in it or managed in some way.



Stand	Cover Type	Acres	Managed Site	General Comments:
96	6239 - Mixed Emergent Wetland	5.8	No	Grindstone Creek bottom. Periodic beaver activity with occasional flooding. Timber is all dead and gone. Marsh grass and sedges predominate. This would fall under Natural Rivers because it is a tributary to the Pigeon River.
98	3105 - Mixed Upland Herbaceous	1.9	No	Wildlife may want to do something with this stand.
101	6239 - Mixed Emergent Wetland	10.6	No	Grindstone Creek flows through here with significant beaver activity that has killed most of the trees due to high water. This creek flows into the Pigeon River and is subject to the Natural River influence zone.
104	6239 - Mixed Emergent Wetland	3.9	No	Periodic beaver flooding, presently not flooded.