



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53013

Entry Year 2018

Acreage: 1,859

County Cheboygan

Management Area: Pigeon River Country

Revision Date: 2016-07-15

Stand Examiner: Richard McDonald

Legal Description:

T33 - R01W, sections 19, 30, 31

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:

Entirely state-owned throughout the compartment, however, Wildwood subdivision and other large tracts of privately owned land bounds it to the west.

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:

Proposed Hardwood Natural Area (stand 2) in north end of compartment.

Watershed and Fisheries Considerations:

Both Bird Tally Creek and Grindstone Creek have their origins within this compartment. Both creeks flow into the Pigeon River, which is a Natural River.

Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

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 200 and 600 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State. A gravel pit is located to the west and there is good potential on the uplands. This area was previously leased for oil and gas development. The Antrim Shale is thinning and subcrops in this area and may 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 forest roads, however, have been closed to wheeled motorized vehicles with virtually all those closures still intact.

Survey Needs:

None required.

Recreational Facilities and Opportunities:

No maintained recreational facilities exist within this compartment. Hunting, mushroom and berry picking are the main forms of recreation in this area. The High Country Pathway travels through the NE ¼ of section 31.

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 reports from the Inventory are attached:

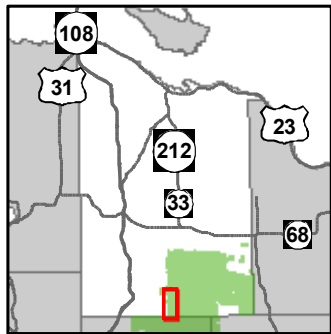
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

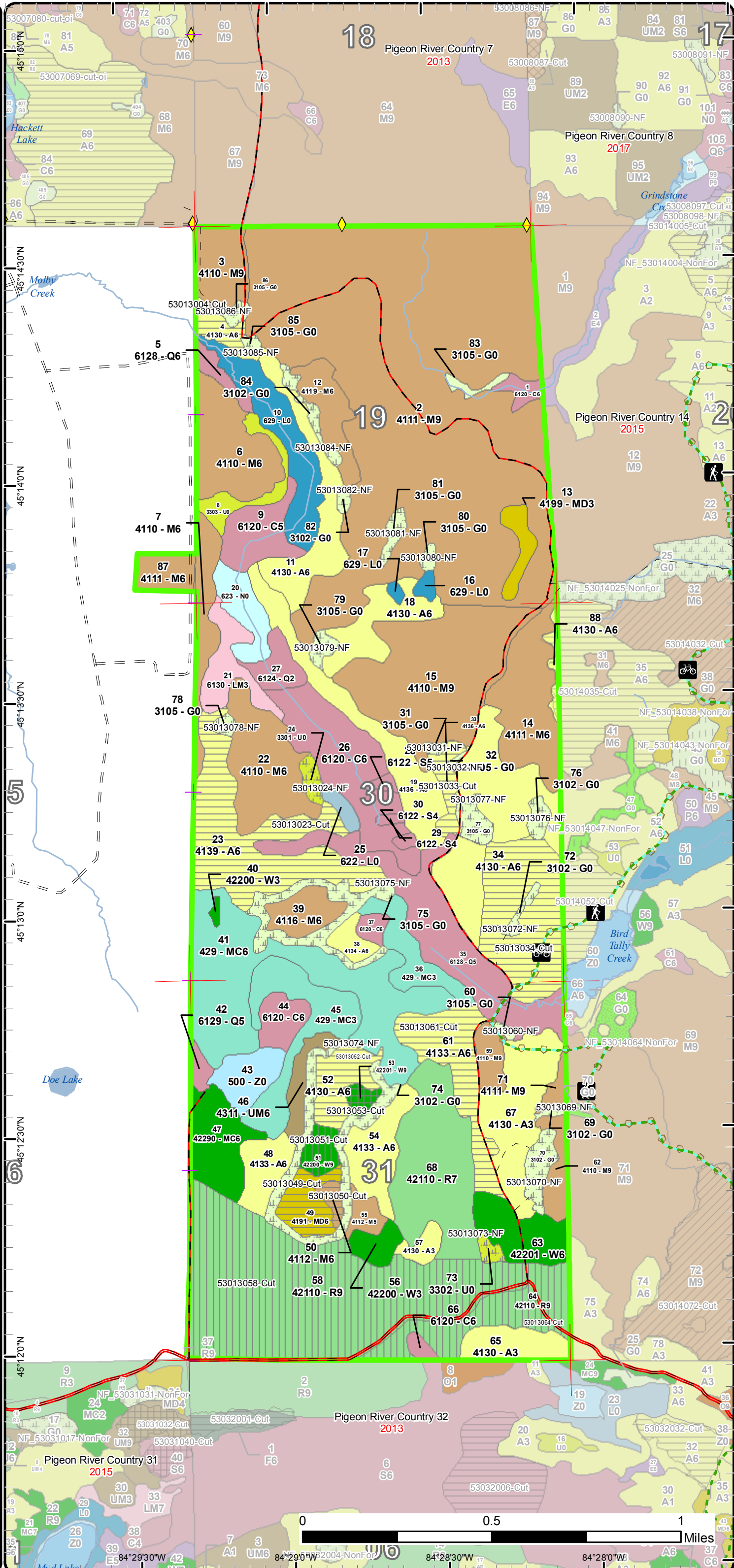
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 13
 T33N, R01W, Sec. 19, 30, 31
 T33N, R02W, Sec. 24
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2018
 Acres: 1858.8 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 2/8/2017
 Map Phase: Post-Review

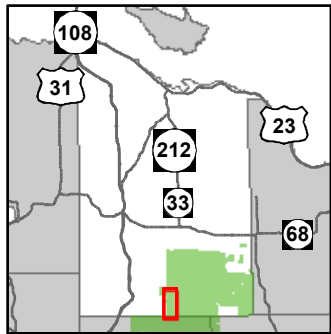


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- Bike Trails
- Hiking Trails
- Ski Trails
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- - - Designated Ski Trails
- - - Designated Snowshoe Trails
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- - - Poor Dirt Roads
- Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Shelter Wood (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

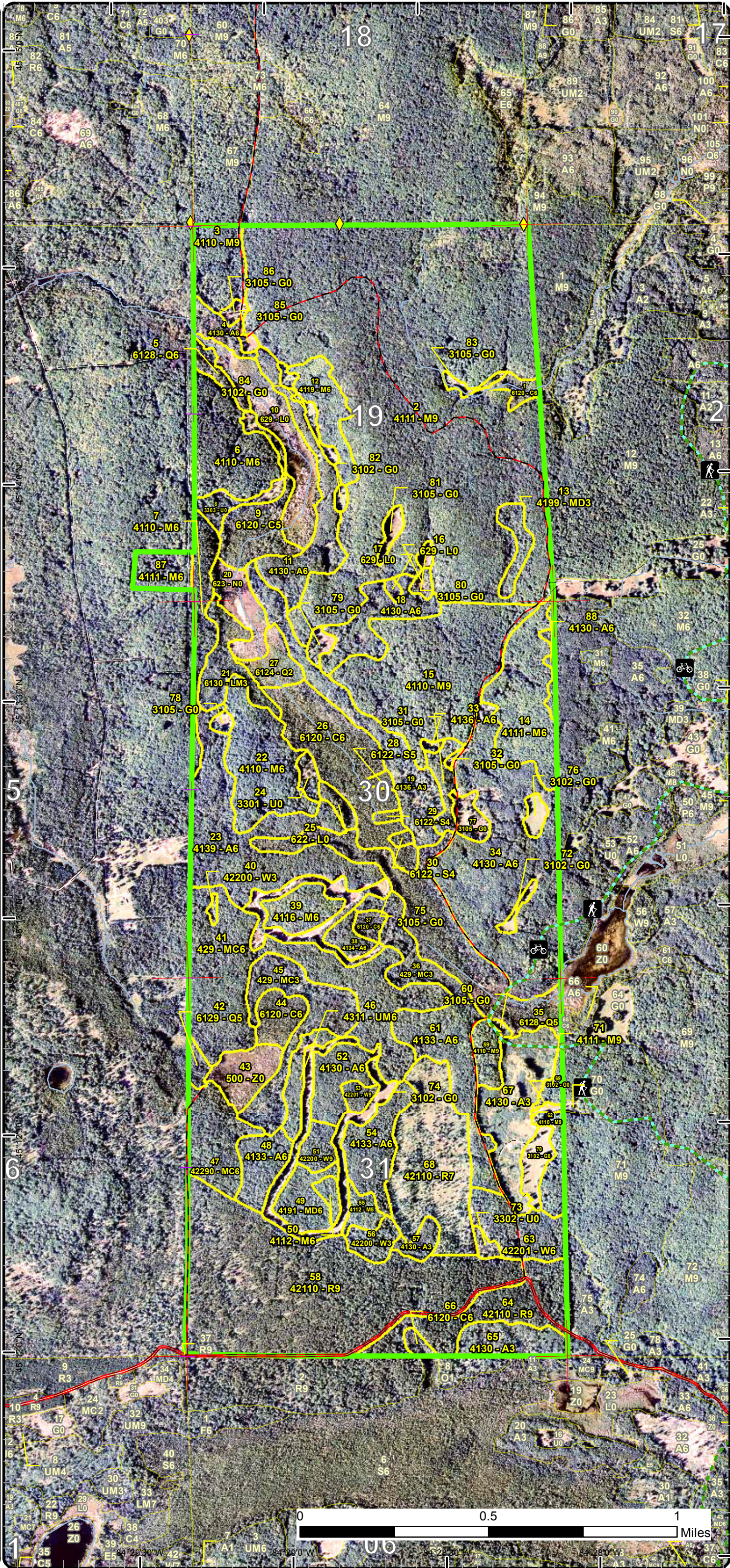


Stand Boundary Map

Compartment: 13
 T33N, R01W, Sec. 19, 30, 31
 T33N, R02W, Sec. 24
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 Unit: Pigeon River Country
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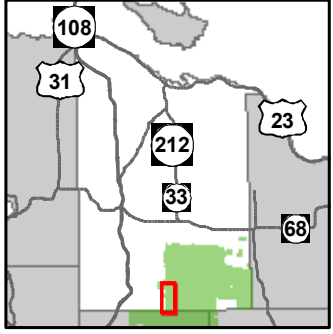


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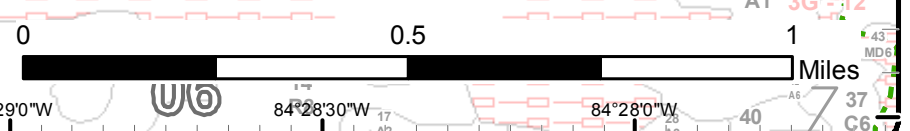
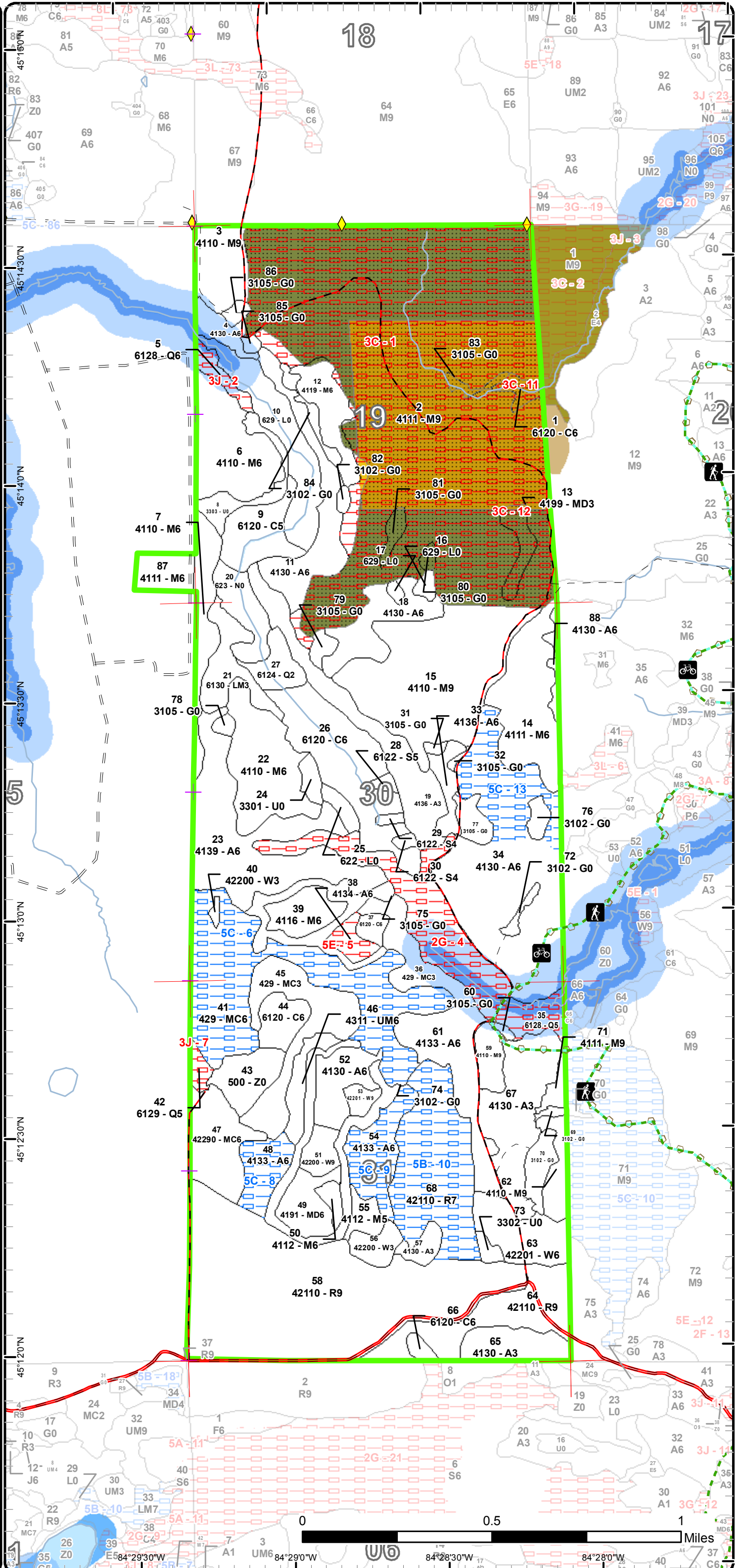


Special Conservation Areas & Site Conditions Map

Compartment: 13
 T33N, R01W, Sec. 19, 30, 31
 T33N, R02W, Sec. 24
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- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- SCA Proposed
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3C: Legally Designated Quiet Area, Natural Area, or Wilderness
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer
- Verified Type 2 Old Growth
- Habitat Corridor
- 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	36	0	50	53	225	0	0	0	7	0	0	0	0	0	0	0	31	402
Cedar	0	0	0	0	0	0	0	0	0	0	4	3	3	72	0	0	0	0	82
Herbaceous Openland	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81
Low-Density Trees	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	9	0	0	0	0	0	5	0	0	0	58	0	0	0	0	72
Lowland Mixed Forest	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Spruce/Fir	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	7	0	13	0	0	0	0	0	0	0	0	0	0	0	0	20
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
Northern Hardwood	0	0	0	0	16	56	0	0	0	0	77	13	380	0	0	0	0	123	665
Red Pine	0	0	0	0	0	0	0	0	0	237	0	0	0	0	0	0	0	0	237
Upland Conifers	0	0	0	48	0	0	0	0	82	0	0	0	0	0	0	0	0	0	130
Upland Mixed Forest	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	1	0	7	0	0	0	24	0	7	0	0	0	0	0	0	0	39
Total	161	36	1	130	76	303	5	0	106	249	88	16	383	130	0	0	0	177	1860



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 380
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	172	0	0	0	0	0	0	0	0	172
Mixed Upland Deciduous	13	0	0	0	0	0	0	0	0	13
Northern Hardwood	3	0	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	182	0	0	0	0	182
White Pine	0	0	0	4	7	0	0	0	0	10
Total	188	0	0	4	188	0	0	0	0	380

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	380	0	0	0	0	0	0	82	0	462
Next Step	0	0	0	0	0	0	380	0	0	380
Total	380	0	0	0	0	0	380	82	0	841



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4	53013004-Cut	7.0	4130 - Aspen	Poletimber Well	82	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Clearcut with no retention due to it's small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: A moderate to well stocked stand of Aspen or Aspen mixed with other existing species will be acceptable. Due to frequent beaver activity along this drainage, Aspen is at risk of being negatively impacted.

Other

Comment:

Proposed Start Date: 10/01/2017

23	53013023-Cut	61.6	4139 - Aspen, Mixed Deciduous	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Clearcut with 2-3 retention islands. Also, mark some larger diameter trees (1-2 per acre) to cut and leave for grouse drumming logs.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: A moderate to well stocked stand of Aspen or Aspen mixed with other existing species will be acceptable.

Other

Comment:

Proposed Start Date: 10/01/2017

24	53013024-NF	3.6	3301 - Low Density Deciduous Trees	Nonstocked	Unspecified	NonForestMgt	Other - Specify		310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Mow, plant, brush, burn, and/or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

31	53013031-NF	1.0	3105 - Mixed Upland Herbaceous	Nonstocked	Unspecified	NonForestMgt	Other - Specify		310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
32 53013032-NF	0.6	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

33 53013033-Cut	7.3	4136 - Aspen, Mixed Conifer	Poletimber Well	49	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Clearcut with no retention due to stand size.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

A moderate to well stocked stand of Aspen or Aspen mixed with other hardwood species will be acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

34 53013034-Cut	50.3	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Clear cut with 2-3 retention islands within the stand. Along the southeast portion along the creek, it may be necessary to stay up on top of some of the steeper slopes that lead to the creek bottom. Maintain the integrity of the trail with limited impact by logging equipment. The boundary line may need to be adjusted to accomplish this. Crossing of trail during logging operations should be limited to one or two locations. The trail shall be signed on both ends of the job to warn of logging operations ahead. Retention areas should be focused along the trail and road to reduce visual impact.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen is the objective and should regenerate well. Anything less than a moderate to well stocked stand of Aspen regeneration should be considered a failure. A combination of other species along with Aspen will be acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

49 53013049-Cut	12.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	41	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Clearcut with single tree retention. Cut everything except the Oak and a few scattered mature pine. Mark a few (1-2 per acre) larger diameter trees to cut and leave for drumming logs.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

A moderate to well stocked stand of Aspen or Aspen mixed with other existing species will be acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
50 53013050-Cut	3.0	4112 - Maple, Beech, Cherry Association	Poletimber Well	49	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Clearcut small pocket of hardwood adjacent to mixed deciduous stand. With the relatively high percentage of beech and the fact that most of it, if not all, is infected with BBD, I recommend cutting everything. With the amount of aspen in the stand and surrounding it, there should be enough to get a pretty well stocked stand of aspen back

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable A moderate to well stocked stand of aspen with mixed hardwood will be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

51 53013051-Cut	6.7	42200 - Natural White Pine	Sawtimber Well	91	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Leave better quality white pine of about 30-40 sq. ft. Cut all other species except leave all Oak.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable A moderate to well stocked stand of aspen, white pine and other mixed hardwood will be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

52 53013052-Cut	15.3	4130 - Aspen	Poletimber Well	41	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Clearcut with 1-2 retention islands. Mark some larger diameter trees to cut and leave for grouse drumming logs. Leave any Oak that may be in the stand.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable A moderate to well stocked stand of Aspen or Aspen mixed with other existing species will be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

53 53013053-Cut	3.5	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	71	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mark 20-30 sq. ft. of White Pine to leave. Concentrate on leaving straight, nicer quality White Pine. Cut all other species except leave any Oak that may be in the stand.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable With the aspen component in the stand, it should just mix right in with stand 52 when it regenerates. The seed trees are there, hopefully, to ensure a white pine component in the stand. A moderate to well stocked stand of aspen mixed with white pine and other existing species will be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
58 53013058-Cut	148.1	42110 - Planted Red Pine	Sawtimber Well	89	81-110	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Shelterwood cut leaving 40-50 sq. ft. residual throughout the stand. Maintain oak and white pine component. Open up pockets of existing regeneration to remove competition and create larger (100') gaps to encourage natural regeneration of red pine in those gaps. Encourage scarification of areas of poor regeneration during logging operations.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Regen: A moderate to well stocked stand of primarily Red Pine regeneration mixed with other existing species will acceptable.

Other Comment:

Proposed Start Date: 10/01/2017

60 53013060-NF	1.0	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2017

61 53013061-Cut	30.7	4133 - Aspen, Mixed Pine	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Clearcut with 2-3 retention islands. Mark to leave some nice quality Red and White Pine throughout the sale.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Aspen regeneration is expected to do well, but any combination of species will be acceptable in determining regeneration success.

Other Comment: Use retention pocket around gate and access road to Pretzel Openings to prevent vehicles from driving around the gate.

Proposed Start Date: 10/01/2017

64 53013064-Cut	33.6	42110 - Planted Red Pine	Sawtimber Well	89	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Shelterwood cut using a mark to cut method leaving 40-50 sq. ft. Leave any Oak that there may be in the stand. Also, there will be 2-3 retention islands left in the stand with no cutting within the boundaries of those islands.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Advanced regeneration of a mixed upland forest type of Quaking Aspen, Red Maple and Balsam Fir is already present under the existing Red Pine. Where possible try to preserve that understory, but scarification should be encouraged where regeneration is light to try and get Red Pine.

Other Comment: After this stand was previously cut back around 1990 there has been quite an understory of aspen, red maple and balsam fir develop making long term management of Red Pine on this site very difficult.

Proposed Start Date: 10/01/2017



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
69	53013069-NF	1.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

70	53013070-NF	7.4	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

72	53013072-NF	2.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

73	53013073-NF	2.4	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, pant, brush, burn, and/or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017



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
74	53013074-NF	20.9	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

75	53013075-NF	16.9	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

76	53013076-NF	3.2	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

77	53013077-NF	5.7	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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
78	53013078-NF	1.7	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

79	53013079-NF	3.0	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

80	53013080-NF	1.5	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

81	53013081-NF	3.3	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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
82	53013082-NF	1.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

84	53013084-NF	4.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

85	53013085-NF	1.3	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

86	53013086-NF	2.0	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mow, plant, brush, burn or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 464.0**

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Richard McDonald : Examiner

Compartment: 13
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	2G	3C	3J	5E	
401	330	65	6	Aspen		65					6
83	78	0	4	Cedar				4			
81	81	0	0	Herbaceous Openland							
16	16	0	0	Low-Density Trees							
72	9	0	63	Lowland Conifers			55		9		
16	16	0	0	Lowland Mixed Forest							
36	36	0	0	Lowland Shrub							
4	4	0	0	Lowland Spruce/Fir							
14	14	0	0	Marsh							
20	13	0	7	Mixed Upland Deciduous				7			
23	23	0	0	Natural Mixed Pines							
666	286	0	380	Northern Hardwood				380			
237	182	55	0	Red Pine	55						
129	48	82	0	Upland Conifers		82					
8	8	0	0	Upland Mixed Forest							
14	14	0	0	Water							
39	39	0	0	White Pine							
1,859	1,196	201	461	Total Forested Acres	55	146	55	392	9	6	
	64%	11%	25%	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	3C: Legally Designated Quiet Area, Natural Area, or Wilderness	380	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Grindstone Creek Hardwood Natural Area.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 13

Richard McDonald : Examiner

Year of Entry: 2018

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	82	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Richard McDonald : Examiner

Compartment: 13
Year of Entry: 2018

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5B: Maintain for regeneration purposes	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3C: Legally Designated Quiet Area, Natural Area, or Wilderness	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Within Grindstone Creek Hardwood Natural Area							
12	Unavailable	3C: Legally Designated Quiet Area, Natural Area, or Wilderness	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Within Grindstone Creek Hardwood Natural Area							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments	Habitat Areas or Corridors	Habitat Corridor		0
Comments	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	2
This area is part of the Grindstone Creek Non-dedicated Natural Area				
Comments	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	91
This area is part of the Grindstone Creek Non-dedicated Natural Area				
Comments	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	91
This area is part of the Grindstone Creek Non-dedicated Natural Area				
Comments	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	138
This area is part of the Grindstone Creek Non-dedicated Natural Area				
Comments	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	138
This area is part of the Grindstone Creek Non-dedicated Natural Area				
Unspecified	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	2
Comments GRINDSTONE HARDWOOD NATURAL AREA. Part of area to be nominated for SCA.				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Well	4.2	91	111-140	Headwater beginning of Grindstone Creek. The stand falls within the proposed Grindstone Hardwood Natural Area. Part of area to be nominated for SCA.
2	4111 - S.Maple, Hard Mast Association	Sawtimber Well	380.3	111	111-140	GRINDSTONE HARDWOOD NATURAL AREA. Part of area to be nominated for SCA.
3	4110 - Sugar Maple Association	Sawtimber Well	18.1	93	51-80	Stand was thinned with stand to the north in 2005 with stand to the north as part of West Fisherman Hardwood.
4	4130 - Aspen	Poletimber Well	7.0	82	81-110	Small stand between road and creek.
5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.2	82	81-110	
6	4110 - Sugar Maple Association	Poletimber Well	33.0	93	51-80	Stand was thinned in 1993. Access thru Wildwood subdivision. Thinned again in 2011.
7	4110 - Sugar Maple Association	Poletimber Well	16.2	93	81-110	Stand was thinned in 1993. Access thru Wildwood subdivision. Selectively cut again in 2011.
9	6120 - Lowland Cedar	Poletimber Medium	18.1	121	51-80	Stand is dying off due to high water levels from Beaver activity.
11	4130 - Aspen	Poletimber Well	27.9	38	81-110	
12	4119 - Mixed Northern Hardwoods	Poletimber Well	15.9	38	51-80	Young hardwood stand on hillside next to car body opening cut at same time as adjacent aspen stand but came back primarily to hardwood.
13	4199 - Other Mixed Upland Deciduous	Sapling Well	7.3	29	Immature	Stand cut by wildlife to create brushy area. Within Grindstone Hardwood Natural Area now. Part of area to be nominated for SCA.
14	4111 - S.Maple, Hard Mast Association	Poletimber Well	37.4	101	81-110	Lesser quality hardwood especially as you go toward the south end of the stand.
15	4110 - Sugar Maple Association	Sawtimber Well	78.4	111	81-110	Stand was thinned in 2000.
18	4130 - Aspen	Poletimber Well	20.1	37	1-50	Decent Aspen coming along but tremendous sugar Maple reproduction underneath. May want to feature that and let aspen fall out of the stand.
19	4136 - Aspen, Mixed Conifer	Sapling Well	34.0	25	1-50	Some heavy browsing throughout stand allowing for more Fir and White Pine to fill in the canopy. The south end of the stand has been impacted the most with Cherry filling some of the open areas.

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Pigeon River Country Mgt. Unit

Report 7 – Forested Stands

Compartment: 13
Year of Entry: 2018

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6130 - Fir, Aspen, Maple	Sapling Well	15.9	25	Immature	Cut in 1002 with stand 27 as part of a swamp cut.
4110 - Sugar Maple Association	Poletimber Well	36.1	49	51-80	
4139 - Aspen, Mixed Deciduous	Poletimber Well	61.6	49	111-140	Nice pole/log stand with good aspen.
6120 - Lowland Cedar	Poletimber Well	44.2	121	81-110	Wet swamp
6124 - Lowland Spruce- Fir	Sapling Medium	9.2	25	Immature	
6122 - Black Spruce	Poletimber Medium	1.7	56	1-50	Strip cut in swamp.
6122 - Black Spruce	Poletimber Poor	1.3	56	1-50	: Strip cut in swamp.
6122 - Black Spruce	Poletimber Poor	1.3	56	1-50	Old strip cut.
4136 - Aspen, Mixed Conifer	Poletimber Well	7.3	49	81-110	
4130 - Aspen	Poletimber Well	97.9	49	81-110	Heavy sugar Maple regeneration in a large portion of this stand which should be part of discussion on what to do with Sugar Maple regeneration we do have. South and west portion of the stand has different character, with Balsam Fir understory dominating that part of the stand. We may want to split stand into two upon further discussion.
6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	54.7	121	51-80	Headwaters of Bird Tally Creek. Some blowdown and quite wet.
429 - Mixed Upland Conifers	Sapling Well	16.2	24	Immature	
6120 - Lowland Cedar	Poletimber Well	3.4	111	51-80	
4134 - Aspen, Spruce/Fir	Poletimber Well	5.8	49	51-80	
4116 - Mixed N. Hardwood - Aspen	Poletimber Well	12.0	49	81-110	
42200 - Natural White Pine	Sapling Well	0.9	19	Immature	Small opening filling with white pine.
429 - Mixed Upland Conifers	Poletimber Well	81.5	73	111-140	Rather poor quality White Pine. Aspen is generally in decent shape, but due to cutting prescribed on 2 sides of this stand, any treatment should be delayed until next entry.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	3.3	121	1-50	: Flowing stream below Beaver dam.
44	6120 - Lowland Cedar	Poletimber Well	10.0	121	81-110	
45	429 - Mixed Upland Conifers	Sapling Well	31.6	24	Immature	Beaver taking quite a bit of aspen out. Not heavy to aspen, however.
46	4311 - Pine, Aspen Mix	Poletimber Well	8.5	49	81-110	
47	42290 - Natural Mixed Pine	Poletimber Well	23.4	81	81-110	
48	4133 - Aspen, Mixed Pine	Poletimber Well	13.3	49	81-110	Poor quality white pine with aspen understory. Manage for aspen.
49	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.6	41	111-140	Stand year of origin was originally 1942, however, the aspen and red maple was reestablished in the mid-1970's after being cut at that time.
50	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.0	49	81-110	
51	42200 - Natural White Pine	Sawtimber Well	6.7	91	81-110	
52	4130 - Aspen	Poletimber Well	15.3	41	141-170	Aspen diameters are quite variable.
53	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	3.5	71	81-110	Stand Year Origin was 1946 but the aspen and red maple component was cut in the mid- 1970's and restarted. Same thing can be done when stand 52 is cut.
54	4133 - Aspen, Mixed Pine	Poletimber Well	19.9	49	81-110	
55	4112 - Maple, Beech, Cherry Association	Poletimber Medium	5.4	49	51-80	BBD is prevalent in the stand.
56	42200 - Natural White Pine	Sapling Well	7.0	36	1-50	
57	4130 - Aspen	Sapling Well	4.9	36	1-50	
58	42110 - Planted Red Pine	Sawtimber Well	148.1	89	81-110	Stand was selectively cut in 2002. Encourage scarification of soil during logging operations.
59	4110 - Sugar Maple Association	Sawtimber Well	7.6	106	81-110	Small stand along the road with a wide range of size classes.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4133 - Aspen, Mixed Pine	Poletimber Well	30.7	49	81-110	Highly variable stand from one end to the other. Hard to separate into different stands.
62	4110 - Sugar Maple Association	Sawtimber Well	9.5	101	81-110	Stand was thinned in 2000 with larger stand (71) in compartment 14 to the east. It will be treated again with that stand when it comes up again.
63	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	20.5	71	111-140	
64	42110 - Planted Red Pine	Sawtimber Well	33.6	89	81-110	Species removal in 1990. Good Aspen regeneration.
65	4130 - Aspen	Sapling Well	15.5	26	Immature	Scattered Red Oak residual.
66	6120 - Lowland Cedar	Poletimber Well	2.6	109	51-80	
67	4130 - Aspen	Sapling Well	35.9	8	Immature	Final harvest completed 2009 looking very good. Regeneration doing very nicely.
68	42110 - Planted Red Pine	Sawtimber Poor	55.0	89	1-50	OPIC - FMD: Stand was selectively cut in 2002. Seed tree cut in 20102014- Stand updated following regen survey. Pretzel Edge Red Pine, #53-006-08-01. Regen results: Rp TPA 525, Rm TPA 1275, Wp TPA 388, Be TPA 113. Stand falls just short of acceptable regen standards for red pine. Overall, some very nice patches of natural red pine regen. Residual ba/acre is 23 sq ft so the regen is free to grow. Red maple being browsed heavily which may be good in reducing competition for the red pine.
71	4111 - S.Maple, Hard Mast Association	Sawtimber Well	3.8	101	81-110	Narrow strip of hardwood on the edge of a much bigger stand that was treated around 2000. This part was not included in that cut, so could serve well as a retention stand.
87	4111 - S.Maple, Hard Mast Association	Poletimber Well	9.7	93	51-80	Ten acre parcel within Wildwood Subdivision that was added to this compartment. Not a real good quality stand with some semi-open area.
88	4130 - Aspen	Poletimber Well	3.6	46	111-140	Part of larger stand in Comp. 14 that is already under contract (Autumn Aspen)



Stand	Cover Type	Acres	Managed Site	General Comments:
8	3303 - Mixed Low Density Trees	9.7	No	BRUSHY OPENING ALONG SWAMP EDGE BEING FILLED IN WITH PRIMARILY HARDWOOD.
10	629 - Mixed non-forested wetland	29.3	No	Periodic flooding from beavers setting back advancement. Also pockets of dead conifer from high water especially toward the south end.
16	629 - Mixed non-forested wetland	2.1	No	Small vernal pool that is wet most of the year. Water is presently flowing out and into stand 17.
17	629 - Mixed non-forested wetland	1.2	No	Vernal Pool similar to 16 but no cedar around the perimeter. Full of water and flowing out down a ravine to another low area and eventually into the creek drainage.
20	623 - Emergent Wetland	13.7	No	Beaver flooded creek bottom. Cedar has been killed off by high water.
24	3301 - Low Density Deciduous Tree	3.6	No	Semi-open area between hardwood and swamp.
25	622 - Lowland Shrub	3.6	No	Pocket of tag alder along swamp edge
31	3105 - Mixed Upland Herbaceous	1.0	No	
32	3105 - Mixed Upland Herbaceous	0.6	No	
43	500 - Water	13.6	No	Portion of cedar swamp that has been killed off by high water held back by beaver dam between 42 and 43.
60	3105 - Mixed Upland Herbaceous	1.0	No	
69	3102 - Grass	1.1	Yes	Managed wildlife opening
70	3102 - Grass	7.4	Yes	Managed wildlife opening
72	3102 - Grass	2.1	Yes	Managed wildlife opening
73	3302 - Low Density Conifer Trees	2.4	No	Natural opening filling in with pine regeneration.
74	3102 - Grass	20.9	Yes	Managed wildlife opening
75	3105 - Mixed Upland Herbaceous	16.9	Yes	North "Pretzel Opening" created by Wildlife Div., but is filling in with Balm and Fir and pine. Needs maintenance



Stand	Cover Type	Acres	Managed Site	General Comments:
76	3102 - Grass	3.2	Yes	Managed wildlife opening
77	3105 - Mixed Upland Herbaceous	5.7	No	Some scattered pine and cherry.
78	3105 - Mixed Upland Herbaceous	1.7	No	
79	3105 - Mixed Upland Herbaceous	3.0	No	
80	3105 - Mixed Upland Herbaceous	1.5	No	Wildlife Div. created this wildlife opening, but hasn't been maintained for several years. Part of Grindstone Hardwood Natural Area to be nominated for SCA.
81	3105 - Mixed Upland Herbaceous	3.3	No	Developed by wildlife Div., but hasn't been maintained for several years. Part of Grindstone Hardwood Natural Area area to be nominated for SCA.
82	3102 - Grass	1.3	Yes	Wildlife managed opening: small Car Body gate opening.
83	3105 - Mixed Upland Herbaceous	2.3	No	Part of Grindstone Hardwood Natural Area to be nominated for SCA.
84	3102 - Grass	4.3	Yes	Wildlife managed opening: Car Body Gate opening (big)
85	3105 - Mixed Upland Herbaceous	1.3	No	Opening at Car Body gate.
86	3105 - Mixed Upland Herbaceous	2.0	No	Opening along Fisherman Rd. and Rd. 124.