



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53029

Entry Year 2017

Acreage: 1,557

County Cheboygan

Management Area: Pigeon River Country

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

**Stand Examiner:** Richard McDonald

**Legal Description:**

T33N - R01E sections 28-31

**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 dominated by Cheboygan and Rubicon sands in the uplands and Tawas and Lupton Peat Associations in the lowland swamps.

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

This Compartment is bisected by private land and is bordered on the south and east by Black River Ranch. Development is minimal and primary land use is 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:**

A portion of the Black River, as well as, the Little McMasters Creek flow through the stand.

**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. 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. An inactive gravel pit is located three miles to the southwest and potential is considered good on the uplands. This area was previously leased for oil and gas development in the Niagaran reef trend. Niagaran reef production is located to the northeast and this Compartment has potential for additional reefs. The Antrim Shale is thin in this area and may not have potential.

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 throughout the compartment.

**Survey Needs:**

None required.

**Recreational Facilities and Opportunities:**

There are no developed recreational facilities.

**Fire Protection:**

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

**Additional Compartment Information:**

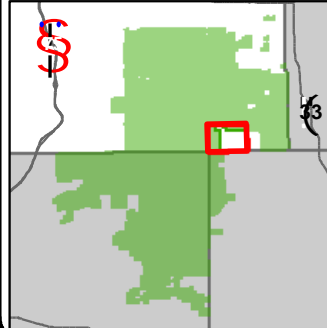
**The following reports from the Inventory are attached:**

- 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**

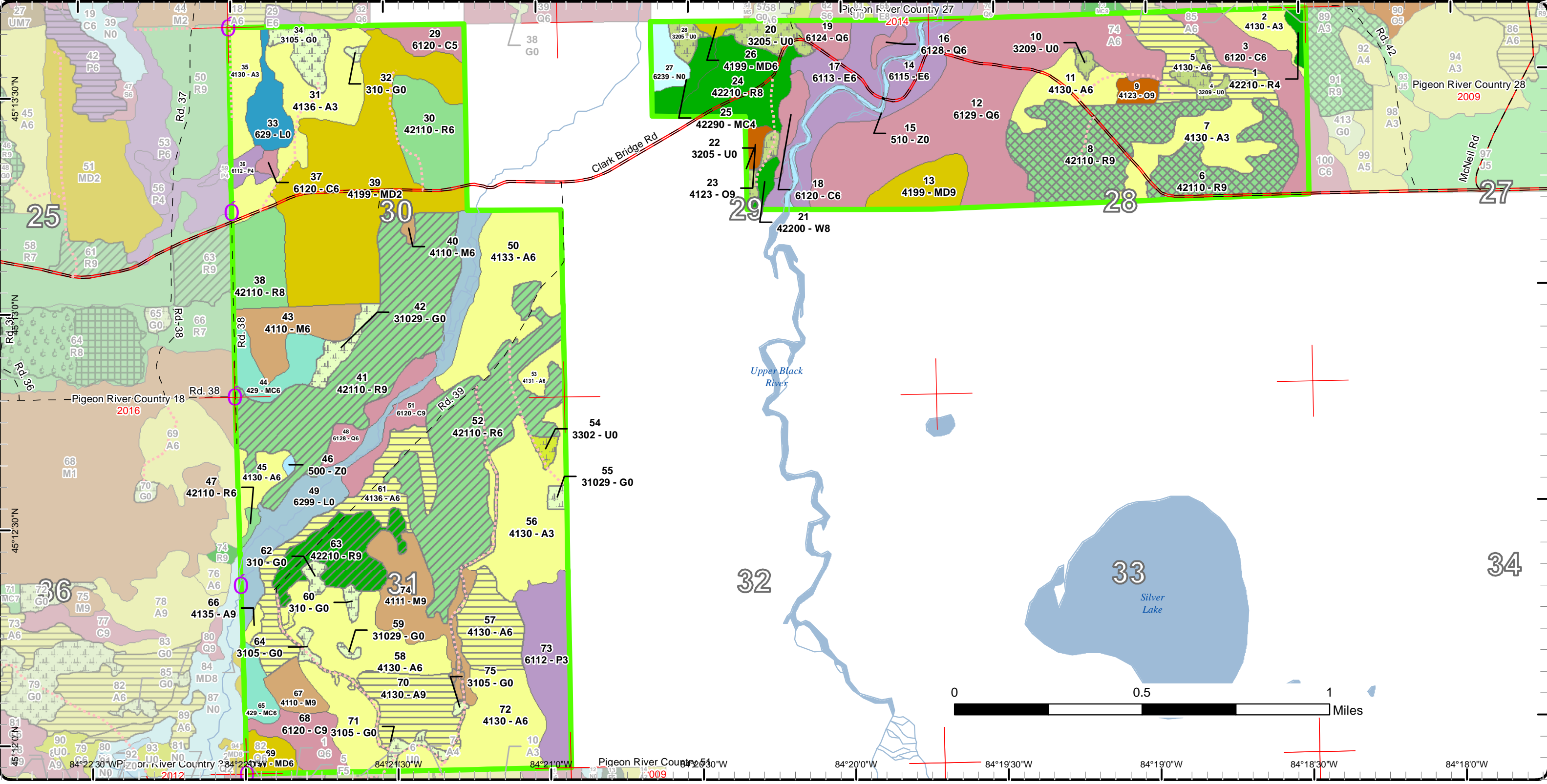
# Cover Type & Treatments



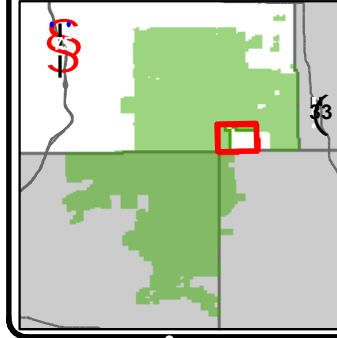
Compartment: 29  
 T33N, R01E Sec. 28-31  
 County: Cheboygan  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2017  
 Acres: 1557 GIS Calculated  
 Examiner: Richard McDonald  
 Map Revised: 6/22/2015  
 Map Phase: Pre-Review

- Remonumented Section Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Rivers
- Lakes
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Opening Maintenance
- Thinning (Crown, Low, Systematic)
- Forest Covertype**
  - 411 - Northern Hardwood
  - 412 - Oak Types
  - 413 - Aspen
  - 419 - Mixed Upland Deciduous

- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Covertype**
  - 310 - Herbaceous Openland
  - 320 - Upland Shrub
  - 330 - Low Density Trees
  - 500 - Water
  - 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland



# Stand Boundary Map

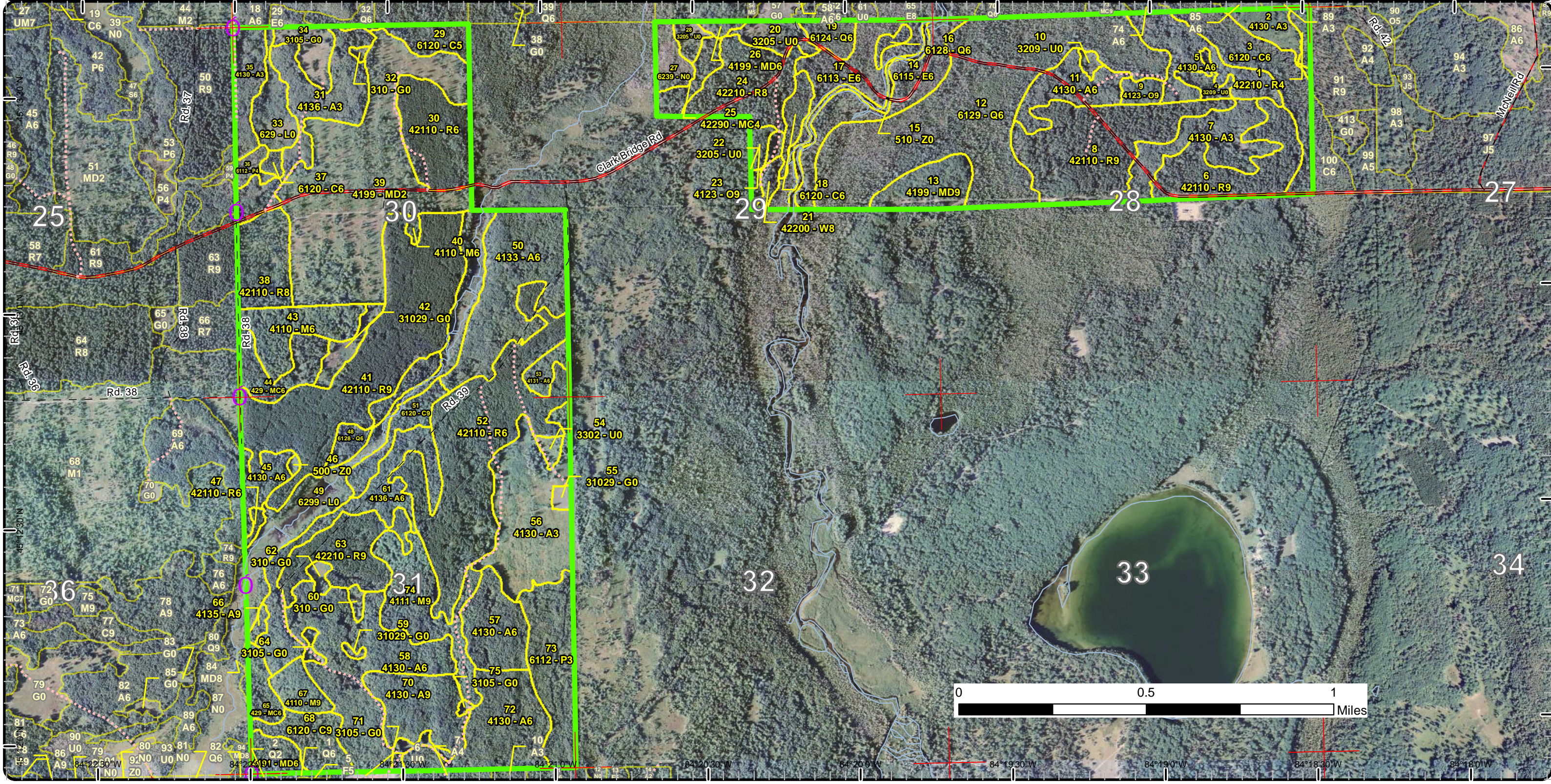


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- Remonumented Section Corners
- Miris Corners
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- - Poor Dirt Roads
- - County Poor Dirt Roads
- - - - Closed Roads
- Rivers
- Stand Boundaries
- Forest Covertype
- 411 - Northern Hardwood

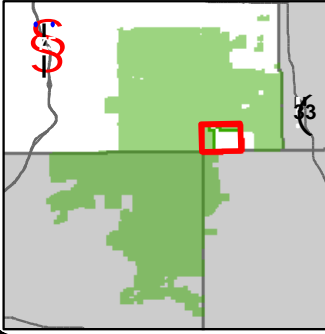
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
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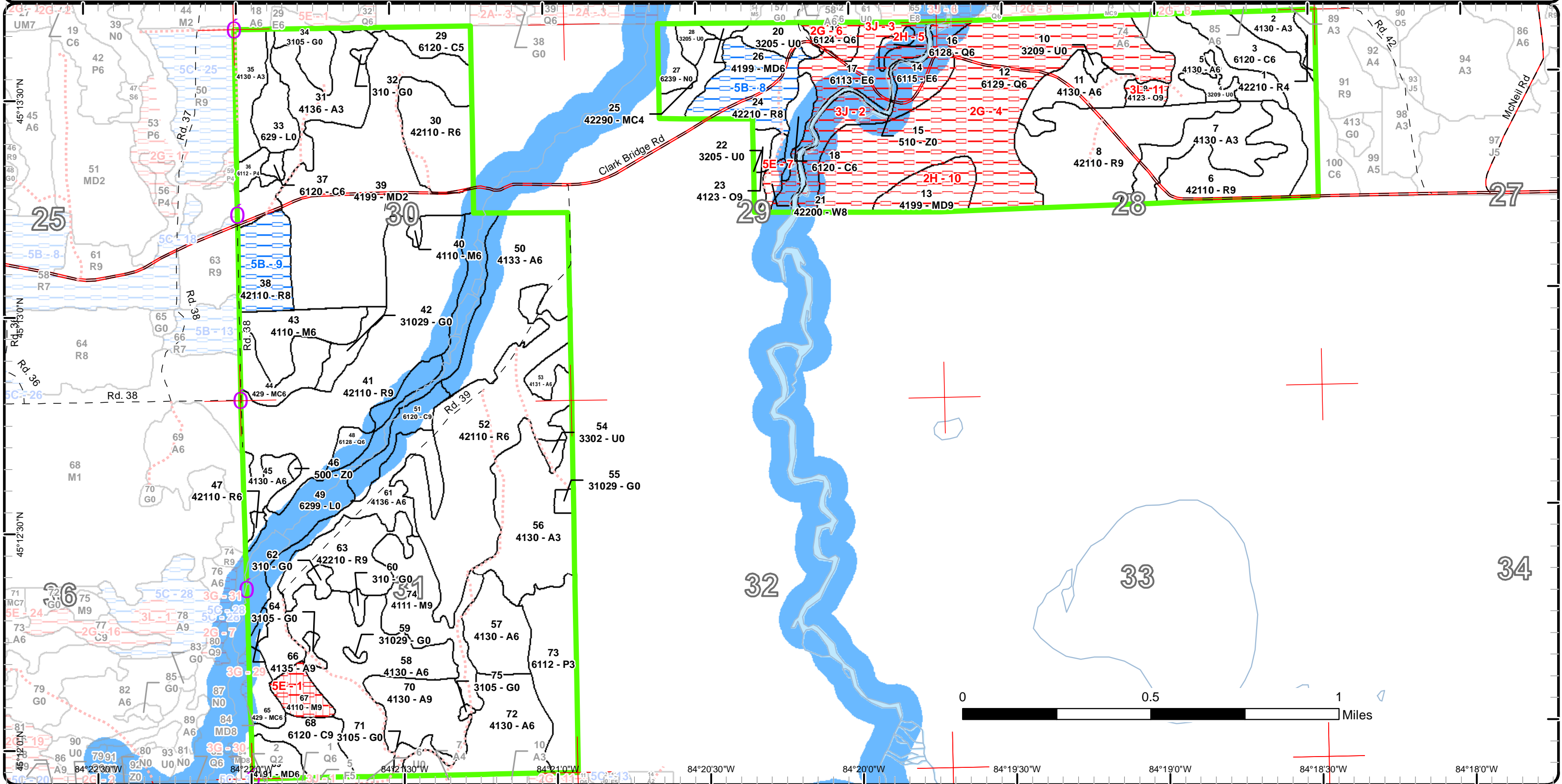


# Special Conservation Areas & Site Conditions Map

Compartment: 29  
 T33N, R01E Sec. 28-31  
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- Remonumented Section Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- ⋯ Closed Roads
- Rivers
- Stand Boundaries
- - Site Condition
- - Available w/ Constraints
- - Unavailable
- Available Factors W/ Constraints
  - 5B: Maintain for regeneration purposes
- Unavailable Factors
  - 2G: Too wet (sensitive soils, does not include access issues)
  - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Special Conservation Areas
  - Cold Water Streams
  - Cold Water Lakes
  - High Priority Trout Stream Buffer



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	61	0	52	37	281	0	0	0	2	0	0	0	0	0	0	0	6	439
Cedar	0	0	0	0	0	0	0	0	0	0	0	10	66	0	0	0	0	0	76
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Conifers	0	0	0	0	0	0	0	0	12	0	0	0	10	134	0	0	0	0	156
Lowland Deciduous	0	0	0	0	0	0	0	0	0	57	0	0	0	0	0	0	0	0	57
Lowland Shrub	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	118	0	0	0	8	0	0	0	18	0	0	0	0	0	0	0	2	146
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Northern Hardwood	0	0	0	0	0	0	0	1	0	22	43	0	0	0	0	0	0	0	66
Oak	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	3	8
Red Pine	0	0	0	0	30	0	222	0	96	53	0	0	0	0	0	0	0	0	401
Upland Conifers	0	0	0	0	16	0	8	0	0	0	0	0	0	0	0	0	0	0	24
Upland Shrub	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
<b>Total</b>	<b>134</b>	<b>179</b>	<b>0</b>	<b>90</b>	<b>83</b>	<b>289</b>	<b>230</b>	<b>1</b>	<b>108</b>	<b>152</b>	<b>43</b>	<b>13</b>	<b>81</b>	<b>134</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>1557</b>



## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 0  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 66

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	108	0	0	0	0	0	0	0	0	108
Red Pine	0	92	0	0	0	220	0	0	0	311
<b>Total</b>	<b>108</b>	<b>92</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>220</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>420</b>

### Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	420	0	0	0	0	0	0	0	66	486
Next Step	0	0	0	0	0	0	200	25	0	225
<b>Total</b>	<b>420</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200</b>	<b>25</b>	<b>66</b>	<b>711</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4	53029004-NF	5.2	3209 - Upland Shrub (OI)	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

5	53029005-Cut	25.1	4130 - Aspen	Poletimber Well	43	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with 2-3 retention islands. Mark 5-10 individual larger trees of any species to fell and leave for potential drumming logs. Expand sale

Specs: boundaries into the edges of the surrounding swamp, where feasible, to manage some of the transition area along the swamp.

Next Step

Other, Other; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen should regenerate well, but any combination of species will be acceptable in determining regeneration success.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

6	53029006-Cut	33.5	42110 - Planted Red Pine	Sawtimber Well	78	81-110	Harvest	Single Tree Selection	4221 - Natural Red Pine, Mixed Deciduous	Even-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Single tree selection. Mark individual Red Pine to open crowns and create larger (100") canopy gaps to encourage pine regeneration. Some

Specs: existing regeneration should be protected and opened up to encourage development. Any Oak regeneration should be encouraged

Next Step

Treatments:

Acceptable

Pure Red Pine regeneration is not realistic, so any combination of species will be acceptable for regeneration success, however, Red Pine should remain the objective and all efforts in marking and harvesting should be made to encourage Red Pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

8	53029008-Cut	58.0	42110 - Planted Red Pine	Sawtimber Well	78	111-140	Harvest	Single Tree Selection	4221 - Natural Red Pine	Even-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription See prescription for stand 6.

Specs:

Next Step

Treatments:

Acceptable

See stand 6 comments.

Regen:

Other Both stand 6 and stand 8 have been thinned approximately 20 years ago. Portions of stand 8 resemble a multi-aged stand though the majority is even-aged. A multi-aged stand should be the goal. 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
10	53029010-NF	1.9	3209 - Upland Shrub (OI)	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

20	53029020-NF	9.0	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**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

22	53029022-NF	3.5	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**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

28	53029028-NF	4.3	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**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



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
32	53029032-NF	0.9	310 - Herbaceous Openland	Nonstocked	0	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

34	53029034-NF	10.3	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, brush, plant, 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

41	53029041-Cut	98.5	42110 - Planted Red Pine	Sawtimber Well	55	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription This is a second thinning of a Red Pine plantation. Selectively mark trees to open up the crowns of residual trees. Mark down to approximately

Specs: 110-120 BA.

Next Step

Treatments:

Acceptable Not a regeneration cut.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

42	53029042-NF	7.2	31029 - Grass (OI)	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**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
52	53029052-Cut	92.4	42110 - Planted Red Pine	Poletimber Well	55	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription This is a second thinning of a Red Pine plantation. Selectively mark trees to open up the crowns of residual trees. Mark the stand down to a residual BA of approximately 110-120 sq. ft.

Next Step  
Treatments:

Acceptable This is not a regeneration cut.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

54	53029054-NF	2.5	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush, or herbicide to maintain openings. Planting of hard and soft mast.

Next Step  
Treatments:

Acceptable  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

55	53029055-NF	2.1	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush or herbicide to maintain opening and restore well pad. Planting of hard and soft mast.

Next Step  
Treatments:

Acceptable  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

57	53029057-Cut	22.4	4130 - Aspen	Poletimber Well	41	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with 2-3 retention islands left throughout the sale. Also, mark individual larger diameter trees to fell and leave for potential drumming logs.

Next Step  
Treatments:

Acceptable Aspen is the preferred species along with a mix of hardwood species. Should expect a well stocked stand.  
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
59	53029059-NF	0.9	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

**Habitat Cut: Yes**

**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

60	53029060-NF	1.9	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: Yes**

**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

61	53029061-Cut	34.3	4136 - Aspen, Mixed Conifer	Poletimber Well	41	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with no retention due to it being so narrow along the creek. If retention is needed there are clumps of cedar that could serve, but we should want to maximize the aspen regeneration potential for management of good woodcock habitat.

Specs:

Next Step

Treatments:

Acceptable Aspen is the preferred species because of the potential for good woodcock habitat along the creek bottom. There is a high probability that beaver will have a negative impact on this stand in the future with there being an active population in the adjacent creek.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

62	53029062-NF	2.6	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: Yes**

**Site Condition:**

Prescription Mow, plant, brush, 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 /2015



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
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63	53029063-Cut	28.8	42210 - Natural Red Pine	Sawtimber Well	55	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No**      **Site Condition:**

Prescription This is a second thinning of a Red Pine plantation. Selectively mark trees to open up crowns of residual Red Pine. Mark to a residual BA of approximately 110-120 sq. ft.  
Specs:

Next Step  
Treatments:

Acceptable this is not a regeneration cut.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

64	53029064-NF	4.9	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: Yes**      **Site Condition:**

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

Next Step  
Treatments:

Acceptable  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

70	53029070-Cut	26.5	4130 - Aspen	Sawtimber Well	45	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No**      **Site Condition:**

Prescription Clearcut with 2-3 retention islands as well as marking individual larger diameter trees to be felled and left on the ground for potential drumming  
Specs: logs.

Next Step  
Treatments:

Acceptable Aspen is the desired objective along with a mix of hardwood and this stand should regenerate well.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

71	53029071-NF	3.5	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: Yes**      **Site Condition:**

Prescription Mow, plant, brush, or herbicide to maintain opening. Plant hard and 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
74	53029074-NF	0.0	4111 - S.Maple, Hard Mast Association	Sawtimber Well	95	51-80	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Proposal

**Habitat Cut: Yes**

**Site Condition:**

Prescription Maintain in open state possibly with discing and planting to be part of Grouse walk area.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

74	53029074-NFx	0.0	4111 - S.Maple, Hard Mast Association	Sawtimber Well	95	51-80	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Proposal
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**Habitat Cut: Yes**

**Site Condition:**

Prescription Maintain in open herbaceous state as part of hunter walking trail.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

75	53029075-NF	5.2	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: Yes**

**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment  
Acreage Proposed: 485.6**

Dominant Site Conditions

	2H	3J	3L	5B	5E
Aspen					
Cedar					
Herbaceous Openland					
Low-Density Trees					
Lowland Aspen/Balsam Poplar					
Lowland Conifers	3				
Lowland Deciduous		57			
Lowland Shrub					
Marsh					
Mixed Upland Deciduous	18				
Natural Mixed Pines					
Northern Hardwood					9
Oak			5		
Red Pine				53	
Upland Conifers					
Upland Shrub					
Water					
White Pine					3
Total Forested Acres	20	57	5	53	13
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	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 5 – Site Conditions

Pigeon River Country Mgt. Unit  
Richard McDonald : Examiner

Compartment: 29  
Year of Entry: 2017

3	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	134	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Generally, this is a poor quality swamp especially in the southern half. A good portion is pretty wet throughout the year.							
5	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 5 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 29

Richard McDonald : Examiner

Year of Entry: 2017

9	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
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Comments

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**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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42210 - Natural Red Pine	Poletimber Poor	3.7	77	1-50	Stand was cut in 2007.
2	4130 - Aspen	Sapling Well	9.5	6	Immature	OPIC - FMD: Oak and some mature Red Pine left after cut.
3	6120 - Lowland Cedar	Poletimber Well	28.9	110	111-140	Narrow swamp with creek flowing through directly into the Black River. We can probably nip some stuff along the margins in the transition zone, but leave the interior of the stand for stream protection and Best Management Practices.
5	4130 - Aspen	Poletimber Well	25.1	43	81-110	Nice aspen stand with heavy fir understory.
6	42110 - Planted Red Pine	Sawtimber Well	33.5	78	81-110	Scattered Oak throughout, good advanced Oak regeneration. Any logging activities should emphasize protection of the Oak regeneration.
7	4130 - Aspen	Sapling Well	27.6	35	1-50	
8	42110 - Planted Red Pine	Sawtimber Well	58.0	78	111-140	Plenty of Oak regeneration in this stand which should be protected. Stand was thinned 20 years ago along with stand 6.
9	4123 - Red Oak	Sawtimber Well	4.7	117	51-80	Stand is an important food source for all sorts of wildlife and should be maintained as such. Small little knob covered in Oak too small to do anything with anyway. It's value lies in it's mast production.
11	4130 - Aspen	Poletimber Well	18.7	43	51-80	
12	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	133.9	123	81-110	Black River swamp varies in quality, but mostly poor quality swamp and much of it is pretty wet throughout the year.
13	4199 - Other Mixed Upland Deciduous	Sawtimber Well	17.9	80	51-80	MAINTAIN OAK COMPONENT - IMPORTANT FOOD SOURCE. High spot surrounded by swamp. Oak residual with young aspen.
14	6115 - Lowland Ash	Poletimber Well	28.1	86	51-80	RIVER FLOODPLAIN, Black Ash is starting to die out.
16	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	2.5	112	81-110	Small Cedar island surrounded by river floodplain
17	6113 - Lowland Maple	Poletimber Well	28.6	86	51-80	Black River floodplain - west side of river
18	6120 - Lowland Cedar	Poletimber Well	7.3	112	81-110	OPIC - FMD: Black River floodplain - west side of river
19	6124 - Lowland Spruce-Fir	Poletimber Well	7.1	112	51-80	Transition from river bottom to higher ground. smaller, poor-quality timber.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	42200 - Natural White Pine	Sawtimber Medium	3.5	108	51-80	Mature, poor-quality white pine along swamp edge
23	4123 - Red Oak	Sawtimber Well	3.5	80	51-80	Small hilltop/hillside along private property.
24	42210 - Natural Red Pine	Sawtimber Medium	30.6	85	51-80	Stand was thinned in 1999. Selection cut in 1999 took out aspen and hardwood and marked pine. Where aspen was heavier regeneration of aspen came back pretty well mostly north of the road. South of the road is heavier pine with not as much regeneration.
25	42290 - Natural Mixed Pine	Poletimber Poor	8.7	45	51-80	Semi-open pine stand. No management but possibly cut with stand 24 when it is ready.
26	4199 - Other Mixed Upland Deciduous	Poletimber Well	2.2	63	51-80	Hillside up against private property with poor quality wood. No management, too small.
29	6120 - Lowland Cedar	Poletimber Medium	10.4	100	81-110	Stand has had significant blowdown
30	42110 - Planted Red Pine	Poletimber Well	29.9	30	81-110	OPIC - FMD: Old burn that was replanted
31	4136 - Aspen, Mixed Conifer	Sapling Well	37.2	26	Immature	
35	4130 - Aspen	Sapling Well	14.8	26	Immature	
36	6112 - Lowland Aspen	Poletimber Poor	4.2	26	Immature	Wet drainage
37	6120 - Lowland Cedar	Poletimber Well	2.1	112	81-110	Small pocket of conifers next to marsh
38	42110 - Planted Red Pine	Sawtimber Medium	22.3	83	51-80	Shelterwood harvest completed 2009.
39	4199 - Other Mixed Upland Deciduous	Sapling Medium	117.6	7	1-50	Seed tree harvest completed 2009.  2014- Stand updated from regen survey. OI notes that any regen is acceptable so technically this stand passes. SW 1/4 of stand has pockets of nice hardwood regeneration with a good mix of species, however the portion of the stand north of the road is sparse in many areas and is mostly filling in with poor quality red maple and ironwood. A few areas of decent red pine regeneration, mostly around the road which loops through the stand on the south side of the road.
40	4110 - Sugar Maple Association	Poletimber Well	1.4	60	51-80	Small hardwood pocket surrounded by Red Pine plantation
41	42110 - Planted Red Pine	Sawtimber Well	98.5	55	141-170	Good Red Pine plantation thinned the 1st time almost 20 years ago.

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## Pigeon River Country Mgt. Unit

## Report 8 – Forested Stands

Compartment: 29  
Year of Entry: 2017

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	4110 - Sugar Maple Association	Poletimber Well	22.3	85	81-110	EAB starting in ash
44	429 - Mixed Upland Conifers	Poletimber Well	16.1	35	1-50	Natural encroachment of stand 42
45	4130 - Aspen	Poletimber Well	9.7	36	81-110	Part of a larger stand west into compartment 18. The stand can be wet much of the year.
47	42110 - Planted Red Pine	Poletimber Well	1.7	55	171-200	Originally part of stand 41, but was never thinned the first time because it is separated from the rest of the stand by a drainage/creek that flows into Little McMasters Creek. It will not be included in the current treatment proposed for that same reason. If it can be reached from the west when we do another stand in compartment 18 we may try then or it may be a good candidate for retention.
48	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.7	75	51-80	
50	4133 - Aspen, Mixed Pine	Poletimber Well	52.9	41	51-80	
51	6120 - Lowland Cedar	Sawtimber Well	11.6	112	111-140	Narrow mixed conifer stand along creek
52	42110 - Planted Red Pine	Poletimber Well	93.0	55	141-170	Stand had a first third row thinning back in 1999.
53	4131 - Aspen, Oak	Poletimber Well	5.9	41	51-80	
56	4130 - Aspen	Sapling Well	51.6	4	Immature	Final harvest completed in 2010. West Fence Aspen sale. Some areas along the east side suffering some serious browse damage.
57	4130 - Aspen	Poletimber Well	22.7	41	81-110	Stand delineated out of a larger aspen stand as part of the grouse/woodcock management area.
58	4130 - Aspen	Poletimber Well	61.8	42	81-110	Part of larger aspen complex that will be part of a grouse habitat area. This stand will not be treated this entry period
61	4136 - Aspen, Mixed Conifer	Poletimber Well	34.9	41	51-80	
63	42210 - Natural Red Pine	Sawtimber Well	28.8	55	141-170	Stand was third row thinned back in 1999.
65	429 - Mixed Upland Conifers	Poletimber Well	8.2	55	1-50	
66	4135 - Aspen, Cedar	Sawtimber Well	1.9	89	111-140	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>67</b>	4110 - Sugar Maple Association	Sawtimber Well	9.4	95	141-170	OPIC - FMD: This is an area that may have never been treated and should be maintained as a Special Conservation Area. It's position in the landscape makes it unique.
<b>68</b>	6120 - Lowland Cedar	Sawtimber Well	16.0	112	201+	
<b>69</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.5	41	81-110	Heavy browse damage, stand is mixing with fir and some pine
<b>70</b>	4130 - Aspen	Sawtimber Well	27.0	45	111-140	Really nice aspen that is part of a larger aspen complex. It will be broken up into smaller stands to be cut at different times to break up the age class for this grouse management area. The roads around this stand will be disced and planted as part of the grouse management area.
<b>72</b>	4130 - Aspen	Poletimber Well	38.3	41	81-110	Good aspen but not treatment until next entry due to the break up of age classes throughout this aspen complex.
<b>73</b>	6112 - Lowland Aspen	Sapling Well	34.2	25	Immature	This is a pretty wet stand, but regenerating well with a mixture of species. The east side along Black River Ranch has had some significant browsing which has impacted the aspen component.
<b>74</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	33.2	95	51-80	Remnant hardwood, semi-open in spots, not great quality.



Stand	Cover Type	Acres	Managed Site	General Comments:
4	3209 - Upland Shrub (OI)	5.2	No	Area of adjacent aspen that never regenerated back to aspen for whatever reason. It could have been impacted by over-browsing or just low stocking of aspen at the time of cut.
10	3209 - Upland Shrub (OI)	1.9	No	Natural opening next to swamp
15	510- Water (OI)	6.7	No	Black River
20	3205 - Mixed Upland Shrub	9.0	No	
22	3205 - Mixed Upland Shrub	3.5	No	
27	6239 - Mixed Emergent Wetland	8.4	No	Formerly a Q6, but beavers have flooded and all timber is dead
28	3205 - Mixed Upland Shrub	4.3	No	
32	310 - Herbaceous Openland	0.9	No	
33	629 - Mixed non-forested wetland	13.0	No	
34	3105 - Mixed Upland Herbaceous	10.3	No	Scattered trees throughout with seedlings creeping in around the edges
42	31029 - Grass (OI)	7.2	No	Natural opening that is getting smaller by encroaching trees.
46	500 - Water	0.9	No	Small pond
49	6299 - Lowland Shrub (OI)	46.3	No	Creek bottom along Little McMasters Creek with some active and inactive beaver dams and is always fluctuating up and down the river.
54	3302 - Low Density Conifer Trees	2.5	No	Opening that is filling in with Red Pine seedlings/saplings.
55	31029 - Grass (OI)	2.1	No	Old well pad.
59	31029 - Grass (OI)	0.9	Yes	
60	310 - Herbaceous Openland	1.9	No	Scattered aspen and some hardwood. Starting to close in with trees.
62	310 - Herbaceous Openland	2.6	No	Old oil pad





Stand	Cover Type	Acres	Managed Site	General Comments:
64	3105 - Mixed Upland Herbaceous	1.9	Yes	Opening that will be incorporated with wildlife's work on the road system to plant and develop it into a grouse walk or "GEM" like area.
71	3105 - Mixed Upland Herbaceous	3.5	Yes	Natural opening which will be incorporated with the roads and openings being worked up and planted as part of the grouse habitat area that is going to be established within this aspen complex.
75	3105 - Mixed Upland Herbaceous	0.7	No	Small opening incorporated with wildlife work on planting the road system for grouse habitat.