



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53061

Entry Year 2018

Acreage: 2,373

County Cheboygan

Management Area: Pigeon River Country

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**Revision Date:** 2016-07-15

**Stand Examiner:** Richard McDonald

**Legal Description:**

T33N - R01E, sections 25-27, 35, 36

**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 and Cheboygan sands with Tawas peat in the lowlands.

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

Almost entirely state-owned land throughout the compartment with a few private parcels interspersed. Two large blocks of private land lie along the south and west boundary of this compartment.

**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

**Watershed and Fisheries Considerations:**

Oxbow Creek, part of the Black River Watershed, enters the compartment from the south and makes a big loop and exits out the northeast corner. Oxbow Creek flows into Canada Creek.

**Wildlife Habitat Considerations:**

Please refer to wildlife comments.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured 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. A gravel pit is located two miles to the east and potential is considered good on the uplands. This area is leased for oil and gas development in the Niagaran reef trend. Producing Niagaran reef wells are located in the Compartment and additional reefs may be located here. The Antrim Shale appears to be 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.) in this Compartment.

**Vehicle Access:**

There is good access to most, if not all, of the compartment. This is land formerly administered by the Indian River office, so it has not been managed under the PRC's vehicle access plan. Some roads have been closed with berms, however.

**Survey Needs:**

None required

**Recreational Facilities and Opportunities:**

No maintained recreational facilities exist within this compartment. However, the MCCCT cycle trail runs through the compartment.

**Fire Protection:**

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

**Additional Compartment Information:**

A major gas/oil flow line runs north and south through the compartment.

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

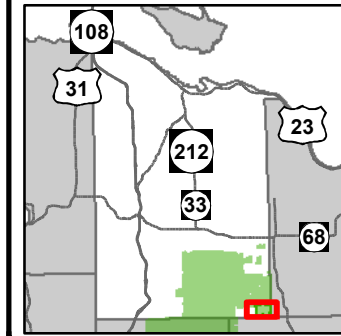
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

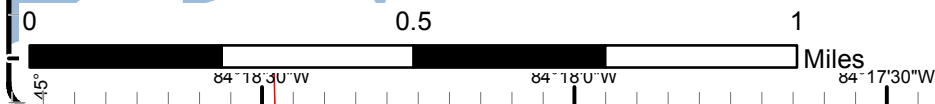
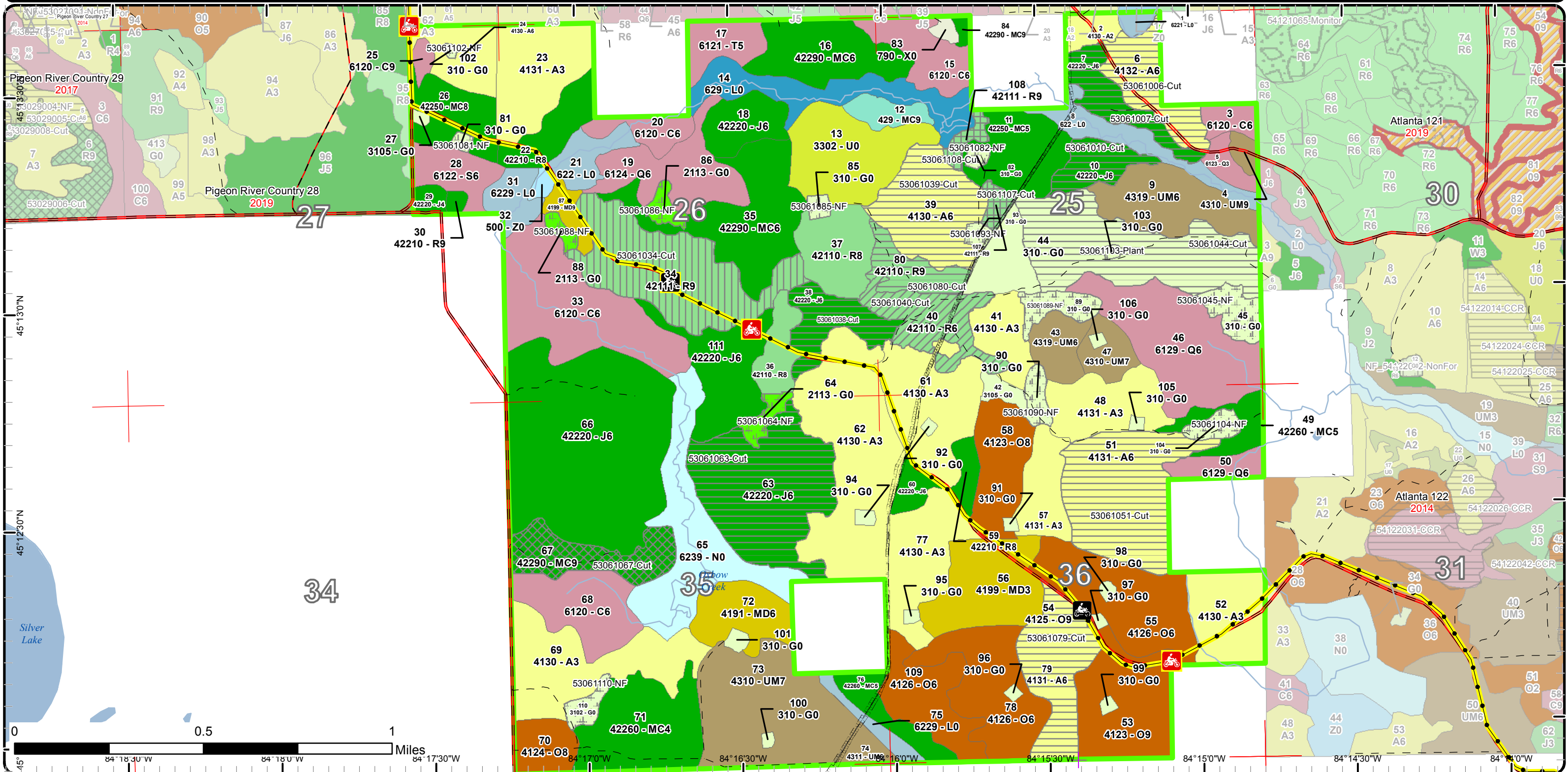
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 61  
 T33N, R01E, Sec: 25-27, 35, 36  
 County: Cheboygan  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2018  
 Acres: 2372.6 GIS Calculated  
 Examiner: Richard McDonald  
 Map Revised: 2/7/2017  
 Map Phase: Post-Review

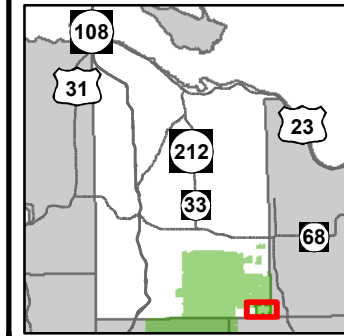


- Miris Corners
- Remonumented Section Corners
- Motorcycle Trails (SOS License)
- MCCCT Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Planting (tree species)
- Other Treatment - See Comments
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- Seed Tree (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- 790 - Other Bare/Sparsely Vegetated
- Lakes

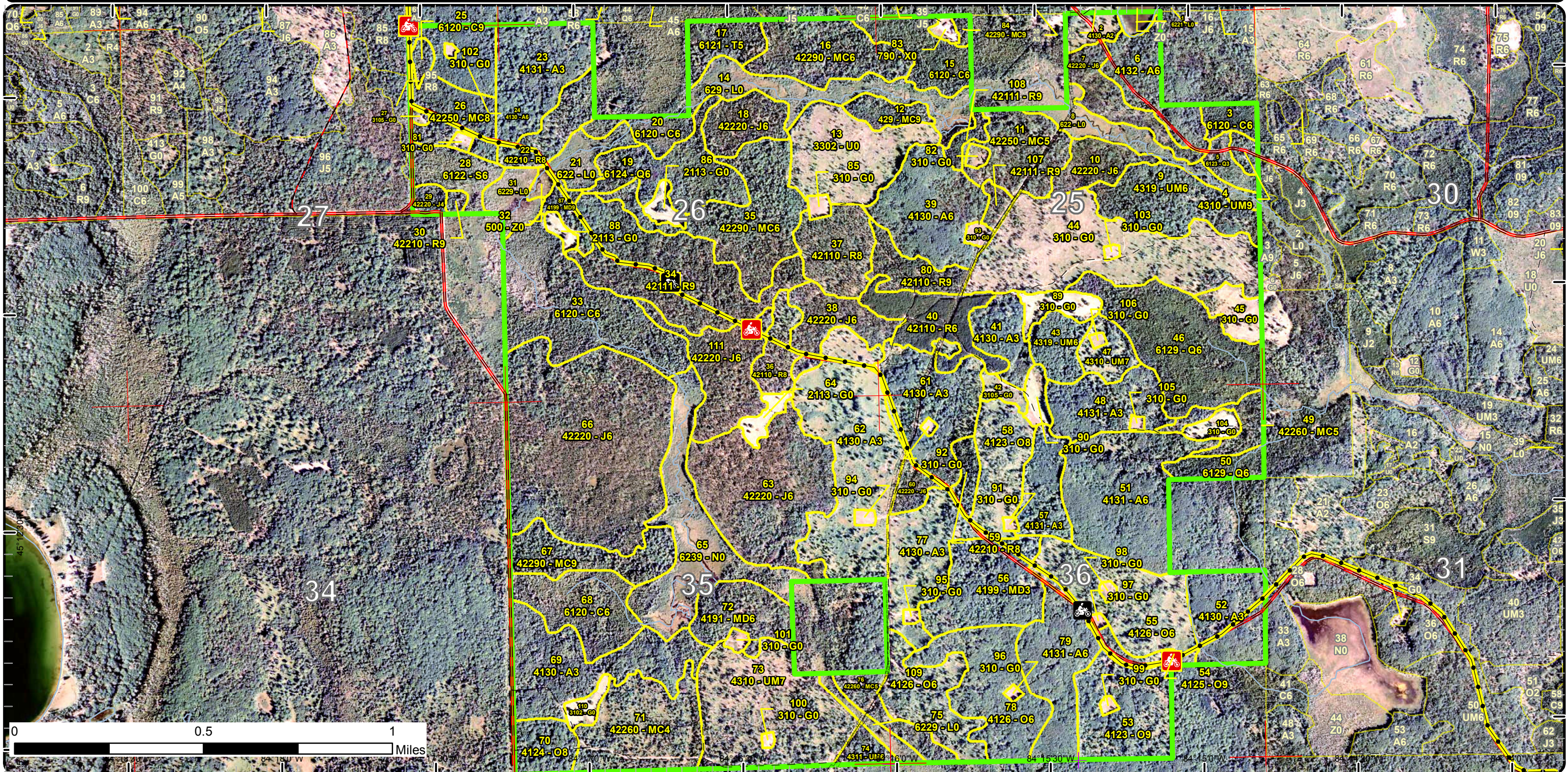


# Stand Boundary Map

Compartment: 61  
 T33N, R01E, Sec: 25-27, 35, 36  
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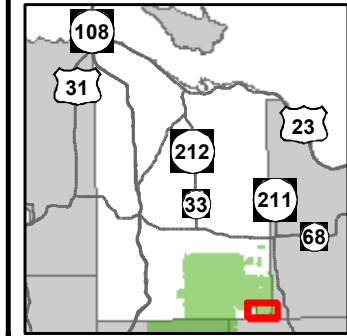


- Miris Corners
- + Remonumented Section Corners
- Motorcycle Trails (SOS License)
- MCCCT Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 412 - Oak Types
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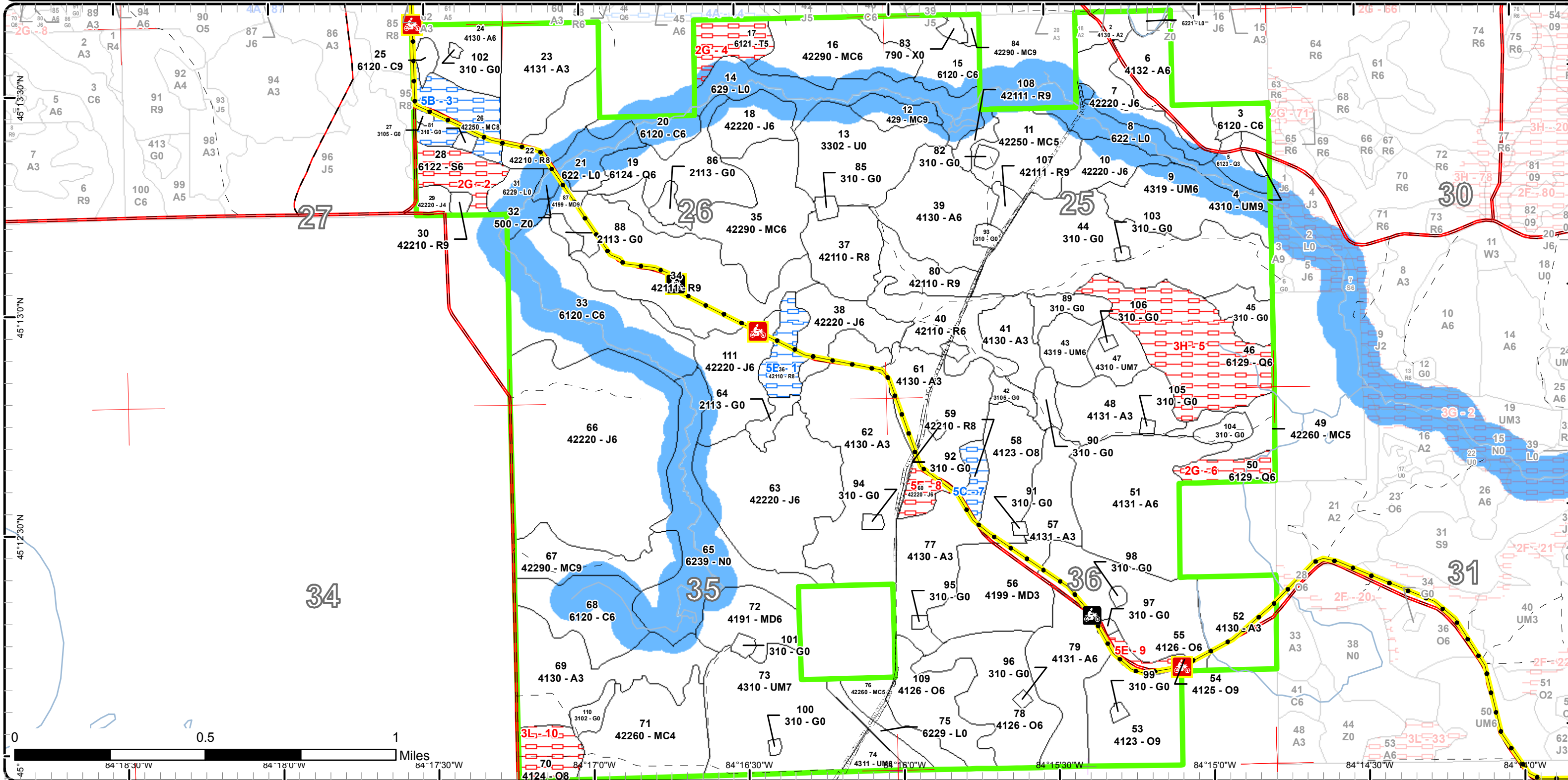


# Special Conservation Areas & Site Conditions Map

Compartment: 61  
 T33N, R01E, Sec: 25-27, 35, 36  
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- Miris Corners
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- County Gravel Roads
- County Poor Dirt Roads
- Rivers
- Pipeline
- Compartment Boundary
- 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)
- 3H: Deer Wintering Areas
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- 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	125	20	131	51	48	25	43	100	0	0	0	0	0	0	0	0	0	543
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	55	88	0	0	0	0	0	0	0	0	143
Cropland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Herbaceous Openland	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151
Jack Pine	0	0	0	0	0	187	0	135	0	0	0	0	0	0	0	0	0	0	322
Low-Density Trees	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Lowland Conifers	0	0	0	7	0	0	0	0	34	71	0	0	0	0	0	0	0	0	112
Lowland Shrub	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17
Marsh	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Mixed Upland Deciduous	0	0	0	40	0	0	0	24	7	0	0	0	0	0	0	0	0	0	71
Natural Mixed Pines	0	0	0	0	46	52	12	44	0	52	0	0	0	0	0	0	0	35	241
Oak	0	0	0	0	0	0	0	0	192	21	0	0	0	0	0	0	0	0	213
Red Pine	0	0	0	0	0	0	28	0	68	92	0	0	0	0	0	0	0	0	187
Tamarack	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Upland Mixed Forest	0	0	0	0	36	14	0	11	0	74	0	0	0	0	0	0	0	7	142
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>359</b>	<b>125</b>	<b>20</b>	<b>178</b>	<b>133</b>	<b>301</b>	<b>65</b>	<b>257</b>	<b>456</b>	<b>430</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51</b>	<b>2374</b>



## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 514  
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	168	0	0	0	0	0	0	0	0	168
Herbaceous Openland	70	0	0	0	0	0	0	0	0	70
Jack Pine	128	0	0	0	0	0	0	0	0	128
Natural Mixed Pines	0	27	0	0	0	0	0	0	0	27
Red Pine	16	0	0	9	68	28	0	0	0	121
<b>Total</b>	<b>382</b>	<b>27</b>	<b>0</b>	<b>9</b>	<b>68</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>514</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	514	0	1	0	0	0	0	58	0	573
Next Step	0	86	86	0	72	0	401	0	0	645
<b>Total</b>	<b>514</b>	<b>86</b>	<b>87</b>	<b>0</b>	<b>72</b>	<b>0</b>	<b>401</b>	<b>58</b>	<b>0</b>	<b>1218</b>



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
6	53061006-Cut	24.9	4132 - Aspen, Jack Pine	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No**                      **Site Condition:**

Prescription Clearcut with 2-3 retention islands as well as leave Oak and some mature pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen is preferred but a mix of species will be acceptable as long as they meet a moderate to well stocked stand after regeneration survey.

Other

May need survey.

Comment:

Proposed Start Date: 10/01/2017

7	53061007-Cut	19.1	42220 - Natural Jack Pine	Poletimber Well	60	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Clearcut with retention. Retention will be single tree retention of Oak and some mature Red and White Pine. Encourage, through cutting specs,

Specs: scarification of the soil during skidding to try and get natural jack pine regeneration.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: A moderate to fully stocked Jack Pine regeneration is preferred but any mix of species along with Jack Pine will be acceptable in determining success.

Other

Comment:

Proposed Start Date: 10/01/2017

10	53061010-Cut	14.9	42220 - Natural Jack Pine	Poletimber Well	60	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Clearcut with no retention because of it's size. Cut all, including the Oak to try and get stump sprouting. Oak regeneration in this area is plentiful,

Specs: however.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: A mixture of Jack Pine and Oak meeting a minimum of moderate stocking is the objective.

Other

Comment:

Proposed Start Date: 10/01/2017

34	53061034-Cut	68.0	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	78	81-110	Harvest	Shelterwood	4221 - Natural Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription BA of Red Pine varies throughout the stand. Heavier areas of Red Pine should be marked to approximately 60 while areas of less Red Pine and

Specs: more mixed species should be cut to try and establish some regeneration. All other species should be cut except Oak. Scarification should be encouraged throughout the stand/sale to try and promote Red Pine regeneration. After 10 years, if regeneration of Red Pine has failed the remainder of the pine should be clearcut and replanted.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Red Pine is the objective, but any mix of species representing the current composition of the stand will be acceptable as long as it meets a minimum of medium stocking levels and red pine is a major component.

Other

Protect MCCC trail and trail markers.

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
38	53061038-Cut	21.8	42220 - Natural Jack Pine	Poletimber Well	60	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clearcut with no retention. Encourage scarification during logging operations to improve chances for a mix of Red Pine regeneration from the surrounding seed sources. Jack Pine, however, is still the main objective. Cut all species, including Oak, to get stump sprouting and existing Oak seedlings to take off.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Predominantly Jack Pine as part of a mix of species presently on site would be preferred meeting stocking levels of medium or high.

Other Comment: Protect MCCC trail and trail markers.

Proposed Start Date: 10/01/2017

39	53061039-Cut	42.9	4130 - Aspen	Poletimber Well	66	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 as well as leaving the Oak component and some mature pine. Some oak may be marked to cut in order to improve aspen regeneration success.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen should achieve at least a moderate stocking level in order to be successful.

Other

Comment:

Proposed Start Date: 10/01/2017

40	53061040-Cut	28.1	42110 - Planted Red Pine	Poletimber Well	51	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut every third row of Red Pine. Cut all other species.

Specs:Next StepTreatments:

Acceptable Regen: Not a regeneration cut.

Other

Comment:

Proposed Start Date: 10/01/2017

44	53061044-Cut	70.2	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut remaining seed trees to prepare for trenching and planting.

Specs:

Next Step SitePrep, Trenching; Planting, Replant

Treatments:

Acceptable Regen: Red Pine seedlings will be planted and then monitored for their survival.

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
45	53061045-NF	10.9	310 - Herbaceous Openland	Nonstocked	0	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 opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

51	53061051-Cut	62.5	4131 - Aspen, Oak	Poletimber Well	73	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. Maintain Oak component, but some areas of heavier oak may need to be thinned.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable

Aspen regeneration stocking of levels of medium to high should be expected. A mix of existing species will be acceptable in determining

Regen: success as long as Aspen is still the dominant species present.

Other

Comment:

Proposed Start Date: 10/01/2017

63	53061063-Cut	72.1	42220 - Natural Jack Pine	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with 2-3 retention islands. Do not allow whole tree chipping. Trees should be processed and left scattered throughout the stand to facilitate prescribed burning for natural seed release. South end of the stand is heavier to aspen and should regenerate back to aspen so we should stay out of there with fire.

Specs:

Next Step

Burn, Slash; Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable

Jack Pine is the objective but a mix of Pin Oak and Aspen should be expected. Stocking levels of Jack Pine should reach at least medium to be

Regen: considered successful.

Other

Comment:

Proposed Start Date: 10/01/2017

64	53061064-NF	5.2	2113 - Forage Crops	Nonstocked	0	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 opening. Plant hard and/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
67 53061067-Cut	27.4	42290 - Natural Mixed Pine	Sawtimber Well	89	171-200	Harvest	Single Tree Selection	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Individually mark pine to release crowns and reduce BA to approximately 100 - 120. Where possible make some larger regeneration gaps.  
Specs: Given the nature of the stand, it is expected that White Pine will probably dominate the expected regeneration. Remove hardwood and maintain Hemlock throughout the stand.  
Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Regen: A mixture of pine is the objective within the larger canopy gaps with a medium stocking level being the minimum that will be acceptable in determining regeneration success.

Other Comment:

Proposed Start Date: 10/01/2017

79 53061079-Cut	37.4	4131 - Aspen, Oak	Polettimber Well	74	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. Oak component varies throughout the stand. Heavy pockets of oak should be thinned but oak scattered among heavier aspen should be cut to try and establish stump sprouts. Protect MCCC trail and trail markers.  
Specs:  
Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Regen: Aspen regeneration meeting anything less than a medium stocking level should be considered a failure.

Other Comment: "Cervid Herbivory" may be an issue in this area.

Proposed Start Date: 10/01/2017

80 53061080-Cut	15.9	42110 - Planted Red Pine	Sawtimber Well	80	81-110	Harvest	Clearcut	4221 - Natural Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clear cut with no retention in order to be able to trench and plant following the cut. Combine with the remaining wood in stand 44 when setting up the sale.  
Specs:  
Next Step SitePrep, Trenching; Planting, Initial Plant  
Treatments:

Acceptable Regen: There should be a fully stocked Red Pine stand following the planting. Follow inspection guidelines when monitoring for regeneration success.

Other Comment:

Proposed Start Date: 10/01/2017

81 53061081-NF	1.5	310 - Herbaceous Openland	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 opening. Plant hard and/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	53061082-NF	2.0	310 - Herbaceous Openland	Nonstocked	0	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 opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

85	53061085-NF	2.2	310 - Herbaceous Openland	Nonstocked	0	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 opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

86	53061086-NF	4.6	2113 - Forage Crops	Nonstocked	0	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 opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

88	53061088-NF	2.9	2113 - Forage Crops	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 opening. Plant hard and/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
89	53061089-NF	9.1	310 - Herbaceous Openland	Nonstocked	0	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 opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

90	53061090-NF	5.5	310 - Herbaceous Openland	Nonstocked	0	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 opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

93	53061093-NF	2.4	310 - Herbaceous Openland	Nonstocked	0	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 opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

102	53061102-NF	0.7	310 - Herbaceous Openland	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, or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
103	53061103-Plant	0.9	310 - Herbaceous Openland	Nonstocked		Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Old well site in the middle of proposed planting area. Trench and plant this as well to reforest it.

Specs:

Next Step Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable It should achieve a fully stocked stand after planting. Follow regeneration survey guidelines for monitoring success.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

104	53061104-NF	5.4	310 - Herbaceous Openland	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 opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

107	53061107-Cut	4.3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	80	81-110	Harvest	Seed Tree	4221 - Natural Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mark heavy while leaving a seed tree source along with leaving the Oak. Encourage soil disturbance during logging operations to improve the seed bed for better Red Pine regeneration. The presence of Aspen and Red Maple will no doubt be maintained by cutting.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mixture of species meeting a moderate or high stocking level will be acceptable in determining regeneration success, however, Red Pine

Regen: should be a significant percentage of that regeneration.

Other

Comment:

Proposed Start Date: 10/01/2017

108	53061108-Cut	4.7	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	80	81-110	Harvest	Seed Tree	4221 - Natural Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mark heavy leaving Red Pine seed trees and Oak. Encourage soil disturbance during logging operations to improve seed bed for Red Pine regeneration. Mixed deciduous component should be maintained by cutting.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mixture of species meeting a moderate or high stocking level will be acceptable in determining regeneration success, however, Red Pine

Regen: should be a significant percentage of that regeneration.

Other

Comment:

Proposed Start Date: 10/01/2017



Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
110	53061110-NF	5.1	3102 - Grass	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 opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

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**Total Treatment Acreage Proposed: 572.6**

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 61

Richard McDonald : Examiner

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	3H	3L	5E	
543	543	0	0	Aspen							
2	2	0	0	Bare/Sparsely Vegetated							
142	142	0	0	Cedar							
13	13	0	0	Cropland							
151	151	0	0	Herbaceous Openland							
322	315	0	7	Jack Pine							7
44	44	0	0	Low-Density Trees							
112	41	0	71	Lowland Conifers			10	61			
90	90	0	0	Lowland Shrub							
17	0	0	17	Lowland Spruce/Fir			17				
57	57	0	0	Marsh							
71	71	0	0	Mixed Upland Deciduous							
241	218	23	0	Natural Mixed Pines	23						
212	191	0	20	Oak					15	6	
187	167	20	0	Red Pine	14	7					
15	0	0	15	Tamarack			15				
9	9	0	0	Upland Conifers							
142	142	0	0	Upland Mixed Forest							
2	2	0	0	Water							
2,373	2,200	43	130	Total Forested Acres	36	7	42	61	15	13	
	93%	2%	5%	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	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit  
Richard McDonald : Examiner

Compartment: 61  
Year of Entry: 2018

2	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mixed conifer stand with advanced aspen regeneration. Wait for aspen to become merchantable then cut.							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>3H: Deer Wintering Areas</b>	61	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit  
Richard McDonald : Examiner

Compartment: 61  
Year of Entry: 2018

8	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	3L: Other wildlife concerns	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### 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
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Comments



### 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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4130 - Aspen	Sapling Medium	7.6	6	Immature	Cut in 2011 and part of a larger stand that extends north into Compartment 28 (stand 18). Significant amount of browse damage throughout the stand on mostly the aspen and maple saplings.  06/03/16 Regen Survey - Failure because it falls below Aspen standards. Results - BTA 1333 TPA, WP 100 TPA, RP 33 TPA. Browse most significant east of the road and close to the lake/pond. Regen west of the road is in good shape.
3	6120 - Lowland Cedar	Poletimber Well	7.6	82	81-110	Wet swamp that extends into private property and also across into Atlanta's area. Drainage into Oxbow Creek across the road.
4	4310 - Pine, Oak Mix	Sawtimber Well	4.3	87	51-80	Sparse, semi-open stand along Oxbow Creek Road
5	6123 - Lowland Fir	Sapling Well	7.1	27	1-50	Most of upper canopy has died off and sub-canopy has taken over.
6	4132 - Aspen, Jack Pine	Poletimber Well	24.9	58	81-110	Aspen along Oxbow Creek Road ready to be cut with adjacent stand 7 possibly.
7	42220 - Natural Jack Pine	Poletimber Well	19.1	60	51-80	Strip of Jack Pine along Oxbow Creek. Some die off and snapping trees which is thinning the stand. Stand should be cut to salvage what's left.
9	4319 - Mixed Upland Forest	Poletimber Well	36.3	32	51-80	Mixed pine with aspen with mixed age classes. Obviously had some kind of treatment in the past. Young sub-canopy is not uniform throughout the stand. Much young aspen on the east end of the stand.
10	42220 - Natural Jack Pine	Poletimber Well	14.9	60	51-80	Decent Jack Pine but a lot of deadfall and broken off Jack Pine. Time to cut before we lose too much more.
11	42250 - Pine, Oak	Poletimber Medium	29.3	60	51-80	this stand sits up on a hill that appears to be a poorer site than stand 10 with a lot more poor site Oak.
12	429 - Mixed Upland Conifers	Sawtimber Well	8.9	82	81-110	Retention stand along Oxbow Creek. No management intended for this stand.
15	6120 - Lowland Cedar	Poletimber Well	21.9	77	81-110	Wet, poor quality swamp would be difficult to operate in.
16	42290 - Natural Mixed Pine	Poletimber Well	35.3	40	51-80	Variable mix of pine. Some pockets of mature red and white pine but primarily smaller diameter Jack Pine and White Pine (2-3 stick) pulpwood. Most of this stand was cut with the stand to the north in 1977.
17	6121 - Tamarack	Poletimber Medium	15.1	82	51-80	Wet tamarack swamp
18	42220 - Natural Jack Pine	Poletimber Well	18.0	45	1-50	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	6124 - Lowland Spruce-Fir	Poletimber Well	33.7	71	81-110	Stand is pretty variable throughout
20	6120 - Lowland Cedar	Poletimber Well	11.3	87	51-80	Swamp along Oxbow Creek. Stand is obviously stressed. Stand is not in good shape probably due to water levels. Borders private 40.
22	42210 - Natural Red Pine	Sawtimber Medium	17.8	80	1-50	Seed tree harvest completed in 2010.  6/12/15 Updated from regen survey. See Comp folder for more specific numbers. RM 1375 TPA 1', BS 450 TPA 2', RO <4.5' 550 TPA 1.5'. Smaller numbers of other species. RM seedlings heavy in most spots. A few pockets of nice oak advanced regeneration that was protected from harvesting damage. Moderate to heavy browse on the oak and maple regen. Overstory BA too high in most spots to allow for pine regen. Some JP & RP seedlings in the skid trails.
23	4131 - Aspen, Oak	Sapling Well	38.7	27	Immature	Stand was cut in 1989, but left the Oak.
24	4130 - Aspen	Poletimber Well	19.2	41	1-50	Nice, emerging pole stand, wait one more entry period.
25	6120 - Lowland Cedar	Sawtimber Well	3.3	86	141-170	Small pocket of cedar, hemlock, mixed deciduous surrounding spring/seep.
26	42250 - Pine, Oak	Sawtimber Medium	22.9	81	1-50	Two-aged stand of mature red pine and oak and younger aspen. Stand had aspen and hardwood cut out around 1975. Good developing understory of aspen and red maple.
28	6122 - Black Spruce	Poletimber Well	16.6	81	51-80	Wet swamp draining into Oxbow Creek.
29	42220 - Natural Jack Pine	Poletimber Poor	4.4	40	1-50	
30	42210 - Natural Red Pine	Sawtimber Well	2.0	81	111-140	Small pocket of mature Red Pine. Previously had no management prescribed because of it's small acreage. Should leave as a retention stand.
33	6120 - Lowland Cedar	Poletimber Well	65.4	81	81-110	Nice cedar/ black spruce stand, but with Oxbow Creek running through it.
34	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	68.0	78	81-110	Planted during the CCC era, but not the size as in other places.
35	42290 - Natural Mixed Pine	Poletimber Well	51.5	48	1-50	Stand appears to have been cut in 1968 with the jack pine and some marked red and white pine being cut according to records. Stand has scattered red and white pine seed trees and is filling in nicely with white pine and jack pine predominantly. Small diameters however.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	42110 - Planted Red Pine	Sawtimber Medium	13.5	80	1-50	<p>OPIC - FMD: Regeneration consisting of mixed pine, aspen and red maple would be satisfactory, but red pine would be preferred. Scarification of the soil should encourage the jack and red pine. Shelterwood harvest completed in 2010.</p> <p>6/12/15 Regen Survey - See Comp folder for more details. 267 TPA for RO &gt; 4.5', 633 TPA for RO &lt;4.5', 100 TPA RP 6". Avg. res ba = 43 sq ft. Not much scarification. Good representation of oak in the understory but as evidenced from the overstory trees, they will be very poor quality. BA still high in places for any chance of pine regeneration, and not much scarification took place. Stand is a good candidate for burning or mechanical scarification in the future.</p>
37	42110 - Planted Red Pine	Sawtimber Medium	25.9	80	51-80	<p>OPIC - FMD: See remarks from stand 36. Shelterwood cut completed in 2010.</p> <p>6/12/15 - Stand updated from regen survey. RO &gt;4.5' 300 TPA, RO &lt;4.5' 850 TPA, WO &lt;4.5' 75 TPA. Nice representation of oak in the understory with some advanced regeneration, but based on the residual overstory oak, it will be very poor quality. Browse is heavy in areas. Residual ba of all species = 65 sq ft, so this was not really a regen cut as the canopy is not open enough for the regen to be free to grow. Trace of RP and JP seedlings on scarified skid trails. Understory ground cover is dominated by blueberry and bracken fern. Burning or scarification would be good options to get pine regen here.</p>
38	42220 - Natural Jack Pine	Poletimber Well	21.8	60	81-110	Mature Jack Pine stand that is beginning to fall down and is deteriorating.
39	4130 - Aspen	Poletimber Well	42.9	66	111-140	Mature aspen but not good quality. A fair amount of dead standing trees. Bigtooth aspen in this area has been subject to quite a bit of browse damage from time to time, but there are many stands that have regenerated successfully.
40	42110 - Planted Red Pine	Poletimber Well	28.1	51	201+	dense stand with small diameters for it's age. Should thin anyway.
41	4130 - Aspen	Sapling Well	16.9	24	Immature	
43	4319 - Mixed Upland Forest	Poletimber Well	14.1	40	51-80	
46	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	60.7	84	81-110	Fairly wet swamp. Species distribution is quite variable in relation to water levels throughout the stand.
47	4310 - Pine, Oak Mix	Sawtimber Poor	11.3	62	1-50	Semi-open stand along swamp with a relatively new oil/gas well site (not in production) in the middle.
48	4131 - Aspen, Oak	Sapling Well	29.2	40	Unspecified	Nice stand of young aspen.
49	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	12.3	59	51-80	Marginal jack pine mix surrounding wildlife opening and along swamp edge and borders private property. Quite a bit of Jack pine has fallen out of the stand.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6129 - Mixed Coniferous Lowland Forest	Poletimber Well	10.3	84	81-110	Narrow swamp along private property with creek flowing through it.
4131 - Aspen, Oak	Poletimber Well	62.5	73	81-110	Mature aspen with oak.
4130 - Aspen	Sapling Well	30.9	24	Immature	Nice young Aspen stand with Oak residual from the last cut in 1993.
4123 - Red Oak	Sawtimber Well	39.9	74	1-50	Stand cut in 1998 and had Oak left as residual.
4125 - Black, N. Pin Oak	Sawtimber Well	5.6	82	51-80	OI Stand Year Origin was 1935. Strip of Oak/Aspen hillside along the road that was left out of adjacent cut due to erosion concerns.
4126 - White, Black, N. Pin Oak	Poletimber Well	48.2	74	1-50	Aspen cut in 2010, Oak left as residual. Regeneration is doing pretty well.
4199 - Other Mixed Upland Deciduous	Sapling Well	40.4	28	Immature	Stand was cut in 1989 but left the Oak resulting in a 2 aged structure
4131 - Aspen, Oak	Sapling Well	19.9	19	Immature	Nice young aspen stand with Oak.
4123 - Red Oak	Sawtimber Medium	28.6	74	1-50	Stand had everything cut except Oak in 2011.
42210 - Natural Red Pine	Sawtimber Medium	6.8	82	1-50	: Part of a sale with stands 60 & 61 cut in 1993 that had heavier pine residual.
42220 - Natural Jack Pine	Poletimber Well	7.0	60	51-80	Mature stand of Jack Pine wedged between road and a pipeline. This stand has been left out of surrounding Aspen sales and may serve well as a retention stand.
4130 - Aspen	Sapling Well	44.4	24	Immature	Oak and some Pine residual left from last cut. Nice young aspen stand.
4130 - Aspen	Sapling Well	80.4	6	Immature	Stand was harvested in 2011, oak and rp/wp were retained.
42220 - Natural Jack Pine	Poletimber Well	72.1	60	81-110	A lot of jack pine is falling out of the stand naturally. Not great diameters but need to cut it before we lose more.
42220 - Natural Jack Pine	Poletimber Well	131.7	49	51-80	Good Jack Pine stand with aspen but on the small side. Wait one more entry period.
42290 - Natural Mixed Pine	Sawtimber Well	27.4	89	171-200	Nice mature stand of mixed white and red pine.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	6120 - Lowland Cedar	Poletimber Well	32.7	76	81-110	Thick understory and pretty wet with small creek flowing out into Oxbow Creek.
69	4130 - Aspen	Sapling Well	51.4	38	51-80	Nice, emerging pole stand of aspen with heavy pockets of white pine.
70	4124 - Red with White Oak	Sawtimber Medium	14.6	86	1-50	Stand had everything cut out but mature oak and pine along with stand 69 I presume.
71	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	46.0	37	1-50	Scattered Jack Pine with Cherry
72	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	23.5	67	81-110	Mixed sizes of Jack Pine. Poor quality timber. Aspen component is decent, but can wait to cut with stand 69 next entry due to access issues and low value with this stand alone.
73	4310 - Pine, Oak Mix	Sawtimber Poor	69.8	80	1-50	This stand had a shelterwood cut in 2011. Plenty of Oak regeneration was already in the understory. This stand was planted in 1937 during the CCC era. Scattered Red Pine were marked to leave along with RP 8" and under. All the Oak was left. Red Pine is not showing up yet as regeneration but there is Jack Pine starting to fill in some areas and there is plenty of Pin Oak regeneration throughout the stand.
74	4311 - Pine, Aspen Mix	Poletimber Well	6.7	82	1-50	Most of the original stand west of the pipeline was cut with stand 73 and those stands have been added together due to the Oak residual that was left behind. This portion of the stand was left as a retention stand due to it's location along the creek and CCR fence line. It should be maintained as a retention stand.
76	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	14.3	60	51-80	OPIC - FMD: Narrow strip of pine along creek bottom and at the bottom of a steep fairly steep ridge. Maintain for BMP considerations.
77	4130 - Aspen	Sapling Well	36.4	5	Immature	Stand cut in 2011-12. Left Oak which is a little heavier residual at the south end of the stand.
78	4126 - White, Black, N. Pin Oak	Poletimber Well	44.2	74	81-110	Ridge top dominated with Oak and less with aspen.
79	4131 - Aspen, Oak	Poletimber Well	37.4	74	81-110	Pretty good aspen, but some trees are dead or dying.
80	42110 - Planted Red Pine	Sawtimber Well	15.9	80	81-110	This stand was part of stand 44 that was removed from any treatment plans to reduce the visual impact from all the cutting in the surrounding area.
84	42290 - Natural Mixed Pine	Sawtimber Well	2.0	82	81-110	Pocket of mature pine behind "Hide-away" cabin surrounded by swamp.
87	4199 - Other Mixed Upland Deciduous	Sawtimber Well	7.1	78	81-110	Leave this as a retention stand and as a screen for the wildlife opening behind it.

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Pigeon River Country Mgt. Unit

Report 7 – Forested Stands

Compartment: 61  
Year of Entry: 2018



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
107	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	4.3	80	81-110	CCC era Red Pine was left out of the sale when stand 44 was cut last time.
108	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	4.7	80	81-110	Mature Red Pine planted during the CCC era. Nice quality.
109	4126 - White, Black, N. Pin Oak	Poletimber Well	30.5	74	51-80	This stand was part of stand 77 but due to it's much heavier Oak residual I separated it into it's own stand.
111	42220 - Natural Jack Pine	Poletimber Well	33.5	47	1-50	Poor quality Jack Pine, not good growth



Stand	Cover Type	Acres	Managed Site	General Comments:
1	6221 - Fen	3.2	No	Natural Fen. Water levels fluctuate with no standing water at time of stand visit.
8	622 - Lowland Shrub	19.9	No	Oxbow Creek bottom/floodplain subject to periodic beaver activity but nothing right now.
13	3302 - Low Density Conifer Trees	44.2		2012 - Stand was clearcut in 2011. A few seed trees of Red Pine, Jack Piine and some Oak were left. Regeneration stocking levels are not acceptable. May need to discuss how we want to proceed. Artificial regeneration may be needed, in which case, I would recommend Red Pine because it seems to do better on this soil type.
14	629 - Mixed non-forested wetland	35.1	No	Oxbow Creek bottom
21	622 - Lowland Shrub	13.1	No	Oxbow Creek bottom
27	3105 - Mixed Upland Herbaceous	1.0	No	Small opening just turning onto Oxbow Creek Rd. that serves as an off-site horse camp.
31	6229 - Mixed lowland shrub	11.8	No	Flooded part of stand 28 with lots of dead timber. Influenced by the road crossing up above.
32	500 - Water	2.4	No	Water backed up behind Oxbow Creek Rd.
42	3105 - Mixed Upland Herbaceous	4.5		Stand was cut 2011 and is seeing good JP regeneration coming back evenly distributed throughout the stand.
44	310 - Herbaceous Openland	87.5		This stand had a seed tree cut done in 2011. It was hoped that Red Pine would seed in naturally, but is failing to do so. The original stand was planted. It may need further evaluation by TMS to determine what step to take next and maybe what site prep may be needed in order to plant the site.
45	310 - Herbaceous Openland	10.9	No	Natural opening with some scattered trees
64	2113 - Forage Crops	5.2	Yes	Wildlife managed opening planted with buckwheat and clover last time.
65	6239 - Mixed Emergent Wetland	57.3	No	Wide creek bottom of Oxbow Creek with periodic flooding.
75	6229 - Mixed lowland shrub	7.1	No	upper end of Oxbow Creek - creek bottom
81	310 - Herbaceous Openland	1.5	No	Old oil well site
82	310 - Herbaceous Openland	2.0	No	Old oil/gas well site beginning to fill in with Jack Pine along the edges.



Stand	Cover Type	Acres	Managed Site	General Comments:
83	790 - Other Bare/Sparsely Vegetate	2.3	No	"Hide-away" cabin and grounds surrounding it. Sparse vegetation on poor soil. Quite a bit of napweed.
85	310 - Herbaceous Openland	2.2	No	Old oil pad
86	2113 - Forage Crops	4.6	No	wildlife managed opening planted with either rye or buckwheat
88	2113 - Forage Crops	2.9	No	Wildlife managed opening planted with rye or buckwheat
89	310 - Herbaceous Openland	9.1	Yes	Managed wildlife opening looked to be planted with buckwheat and maybe clover.
90	310 - Herbaceous Openland	5.5	Yes	managed wildlife opening
91	310 - Herbaceous Openland	0.8	No	Old oil/gas well site part of the Tomahawk project which was unsuccessful so site has been rehabilitated by planting grass and followed up with jack and red pine planting.
92	310 - Herbaceous Openland	0.8	No	Rehabbed oil/gas well site from the unsuccessful Tomahawk project.
93	310 - Herbaceous Openland	2.4	No	Old oil/gas well site.
94	310 - Herbaceous Openland	1.4	No	Old oil/gas well site from the Tomahawk project rehabilitated with grass and later planted with Jack Pine.
95	310 - Herbaceous Openland	1.0	No	Old oil/gas well site from the Tomahawk project rehabilitated with grass and later planted with Jack Pine and Red Pine.
96	310 - Herbaceous Openland	0.9	No	Old oil/gas well site that was part of the Tomahawk project. Rehabilitated with grass and later planted with Jack Pine and Red Pine.
97	310 - Herbaceous Openland	0.8	No	Old oil/gas well site was part of the Tomahawk project has been rehabilitated with grass and later planted with Jack and Red Pine.
98	310 - Herbaceous Openland	1.2	No	Oil/gas well site part of the Tomahawk project. Site has been rehabilitated with grass and then planted with Jack Pine seedlings. Survival is pretty good.
99	310 - Herbaceous Openland	1.0	No	Old oil/gas well site rehabilitated with grass and later planted with Jack and Red Pine.
100	310 - Herbaceous Openland	0.8	No	Old oil/gas well site was part of the Tomahawk project which was unproductive so site was rehabbed with grass.



Stand	Cover Type	Acres	Managed Site	General Comments:
101	310 - Herbaceous Openland	1.8	No	Old oil/gas well site which was unproductive and then rehabbed with grass.
102	310 - Herbaceous Openland	0.7	No	Old oil/gas well site from the Tomahawk project.
103	310 - Herbaceous Openland	0.9		Oil/gas well site part of the Tomahawk Project that didn't produce. Include with surrounding stand to plant red pine.
104	310 - Herbaceous Openland	5.4	Yes	(2006) W 1/2 is natural opening. E 1/2 is an old oil well site.(2016) The entire opening has been worked up into a wildlife managed opening planted to what appears to be buckwheat and maybe clover, but it didn't take well. Very sandy soil.
105	310 - Herbaceous Openland	0.9	No	Old oil/gas well site from the Tomahawk Project that has been rehabilitated with grass and later planted with JP and RP.
106	310 - Herbaceous Openland	0.9	No	Old oil/gas well site part of the Tomahawk Project and has been rehabilitated with grass and later planted (2013) with JP and RP.
110	3102 - Grass	5.1	Yes	Larger opening with an old oil/gas well site within it that was part of the Tomahawk project and unproductive so was turned into a wildlife managed opening.