



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53001

Entry Year 2019

Acreage: 1,435

County Cheboygan

Management Area: Pigeon River Country

Revision Date: 2017-06-12

Stand Examiner: Richard McDonald

Legal Description:

T34N R01W sections 19, 30, 31

Identified Planning Goals:

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

Soil and topography:

North half of compartment is Cheboygan-Blue Lake Association; south half of compartment is Detour-Brevort Association.

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

Mostly all state ownership except for some private ownership on the north end and a couple private parcels on the south end.

Unique Natural Features:

The Pigeon River has been classified as a Natural River and receives special protection.

Archeological, Historical, and Cultural Features:

None identified.

Special Management Designations or Considerations:

None identified.

Watershed and Fisheries Considerations:

The Little Pigeon River flows into the mainstream of the Pigeon River in the south end of the compartment.

Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

Mineral Resource and Development Concerns and/or Restrictions

Sections 19, 30 and 31, T34N-R1W, Cheboygan County

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 200 feet.

Beneath the glacial drift are the Devonian Antrim Shale and Traverse Group that are quarried for cement products and limestone elsewhere in the State. Afton quarry is located three miles to the north. A gravel pit is located to the north and there is good potential. This area was previously leased for oil and gas development. The Antrim Shale subcrops in this area and appears to be too thin for production. The Niagaran reef trend is located eleven miles to the southeast. There is limited oil and gas potential for known producing formations in this compartment.

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

Vehicle Access:

There is good access to most, if not all, of the compartment. Most of the roads, however, have been closed to wheeled motorized vehicles with virtually all those closures still intact.

Survey Needs:

None required.

Recreational Facilities and Opportunities:

No maintained recreational facilities exist within this compartment.

Fire Protection:

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

Additional Compartment Information:

The following reports from the Inventory are attached:

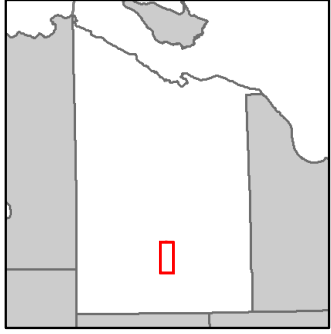
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

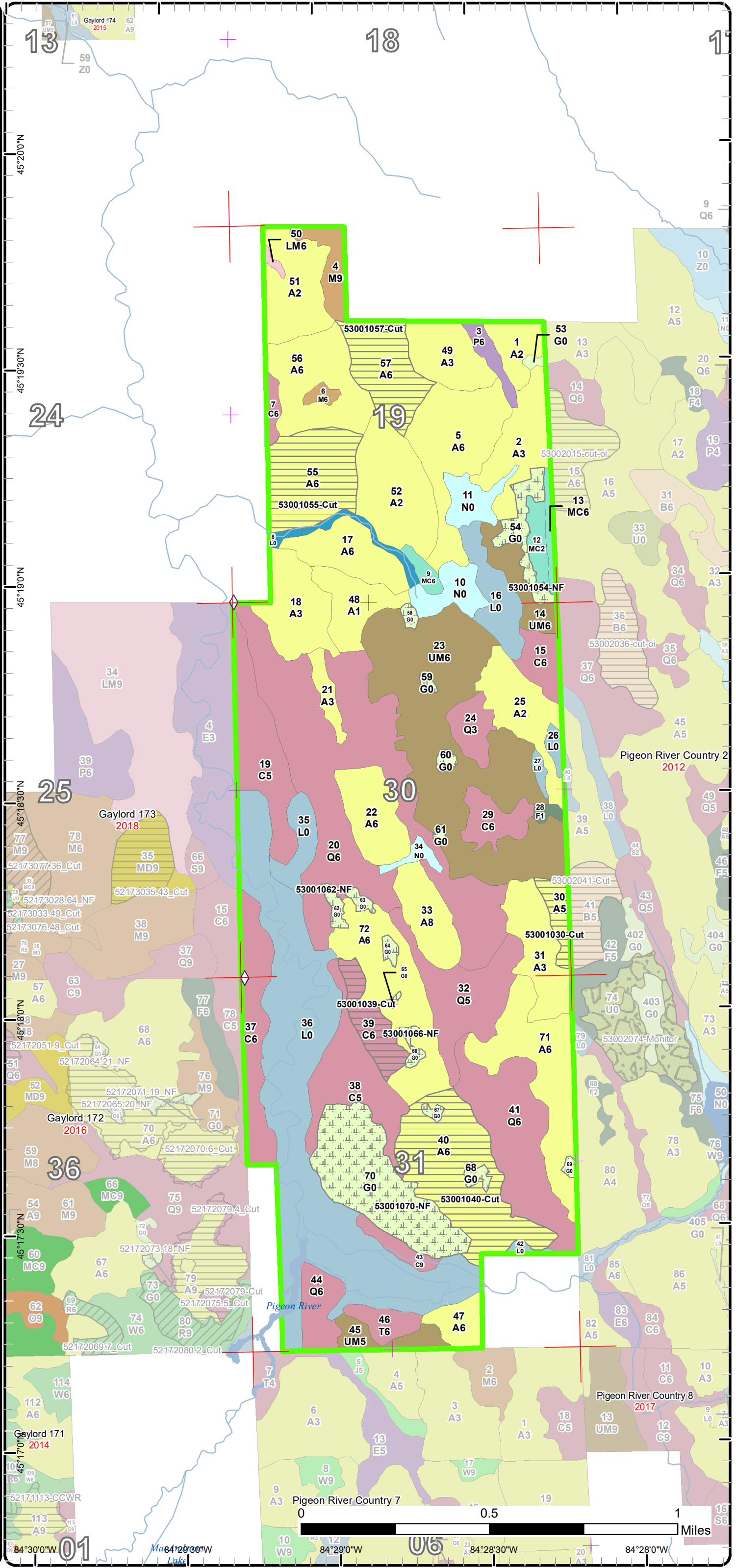
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 1
 T34N, R01W, Sec. 19, 30, 31
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2019
 Acres: 1435.3 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 1/10/2018
 Map Phase: Pre-Review

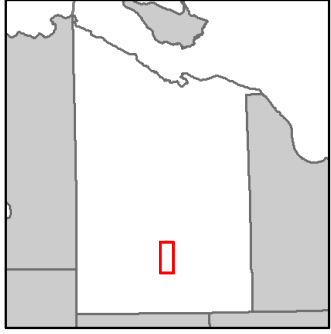


- Miris Corners
- + Remonumented Section Corners
- Field Grade GPS Corners
- Counties
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

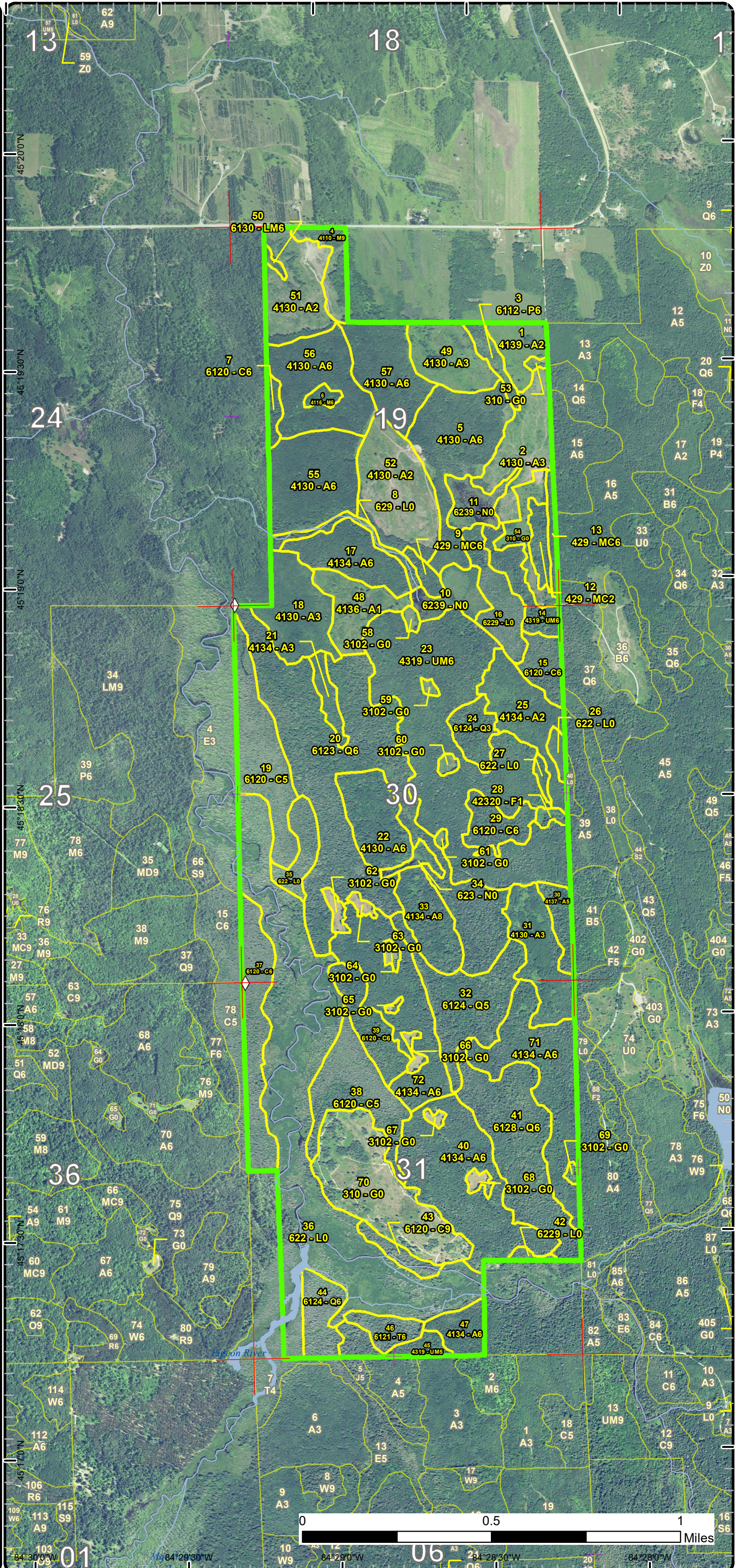


Stand Boundary Map

Compartment: 1
 T34N, R01W, Sec. 19, 30, 31
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2019
 Acres: 1435.3 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 1/10/2018
 Map Phase: Pre-Review

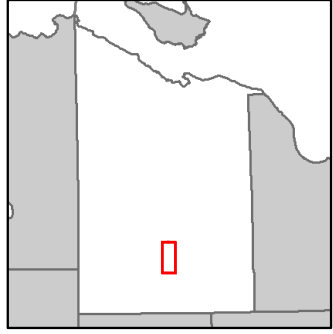


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
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- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

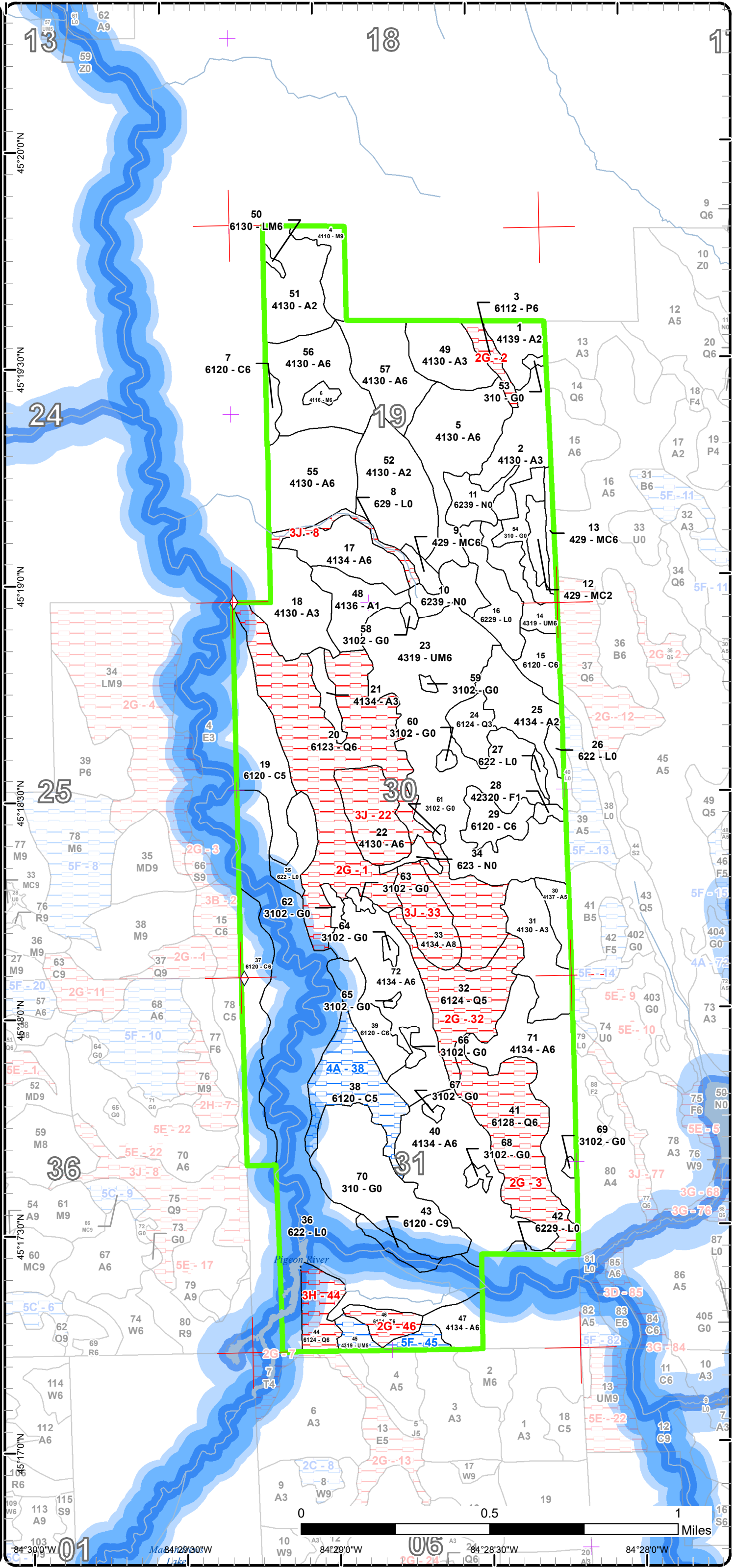


Special Conservation Areas & Site Conditions Map

Compartment: 1
 T34N, R01W, Sec. 19, 30, 31
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2019
 Acres: 1435.3 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 1/10/2018
 Map Phase: Pre-Review



- Miris Corners
- Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- 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	139	0	75	16	303	30	0	0	19	0	0	0	0	0	0	0	0	582
Cedar	0	0	0	0	0	0	0	0	0	29	0	29	78	4	0	0	0	0	139
Herbaceous Openland	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	10	0	0	0	160	0	0	49	14	0	0	0	0	233
Lowland Mixed Forest	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Shrub	191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	191
Marsh	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	8
Upland Conifers	0	0	7	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Mixed Forest	0	0	0	0	0	118	0	0	0	10	0	0	0	0	0	0	0	13	141
Upland Spruce/Fir	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	295	139	9	75	20	436	30	0	6	218	13	29	127	18	8	0	0	13	1435



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 142
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	127	0	0	0	0	0	0	0	0	127
Cedar	14	0	0	0	0	0	0	0	0	14
Total	142	0	0	0	0	0	0	0	0	142

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	142	0	0	0	0	0	0	73	0	215
Next Step	0	0	0	0	0	142	0	0	0	142
Total	142	0	0	0	0	142	0	73	0	356



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
30	53001030-Cut	7.6	4137 - Aspen, Birch	Poletimber Medium	50	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription This stand will be combined with stand 41 in Compartment 2. A Final Harvest with 2-3 retention islands is prescribed. Also, select 1-2 larger diameter trees of any species to be felled and left on the ground to serve as drumming log opportunities for Ruffed Grouse.

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

Acceptable Regen: A fully to moderately stocked stand of Aspen or a combination of species will be acceptable in determining regeneration success.

Other Comment:

Proposed Start Date: 10/01/2018

39	53001039-Cut	14.4	6120 - Lowland Cedar	Poletimber Well	116	171-200	Harvest	Clearcut with Retention	6120 - Lowland Cedar	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Final Harvest with retention islands made up of Hemlock surrounded by small clumps of trees serving to protect the Hemlock.

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

Acceptable Regen: Cedar is the ultimate objective, but early successional species such as Birch, Balm, Red Maple, aspen and spruce may dominate the early regeneration. It is hoped and anticipated that Cedar will then gradually begin to fill in the stand over a period of years

Other Comment: Treatment line was adjusted to allow for the Natural River set back of 200' after pre-review discussion. Winter harvest.

Proposed Start Date: 10/01/2018

40	53001040-Cut	55.8	4134 - Aspen, Spruce/Fir	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Final Harvest with 3-5 retention islands. Also, select several (1-2 per acre) larger diameter trees of any species to fell and leave on the ground to serve as drumming log opportunities for Ruffed Grouse.

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

Acceptable Regen: A fully stocked or moderately stocked stand of aspen regeneration is the intended outcome, but a combination of species meeting those stocking levels will be acceptable in determining regeneration success.

Other Comment: Winter harvest. Use of trail road acceptable, construct separate landing and do not use existing openings for landing areas.

Proposed Start Date: 10/01/2018

54	53001054-NF	10.9	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 openings. Plant hard or soft mast.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018



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
55	53001055-Cut	36.6	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Final Harvest with 2-3 retention islands. Select some larger diameter trees of any species to fell and leave for drumming log opportunities for Ruffed Grouse.
Specs:

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

Acceptable Regen: I fully expect aspen to regenerate successfully but a combination of species will be acceptable in determining regeneration success.

Other Comment:

Proposed Start Date: 10/01/2018

57	53001057-Cut	27.1	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Final harvest with 2-3 retention islands. Use the closed forest road as the west boundary. Pick some larger diameter trees of any species to fell and leave as drumming log opportunities for Ruffed Grouse.
Specs:

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

Acceptable Regen: I fully expect Aspen to respond well but a mix of aspen and hardwood regeneration would be acceptable for determining regeneration success.

Other Comment:

Proposed Start Date: 10/01/2018

58	53001058-NF	1.5	3102 - Grass	Nonstocked	Unspec ified	NonForestMgt	Other - Specify		310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

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

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

59	53001059-NF	0.9	3102 - Grass	Nonstocked	Unspec ified	NonForestMgt	Other - Specify		310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

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

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018



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
60	53001060-NF	1.5	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

61	53001061-NF	0.8	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

62	53001062-NF	2.6	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

63	53001063-NF	1.6	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



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
64	53001064-NF	1.6	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

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

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

65	53001065-NF	0.6	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

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

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

66	53001066-NF	2.0	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

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

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

67	53001067-NF	1.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

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

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



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
68	53001068-NF	2.0	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

69	53001069-NF	1.0	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

70	53001070-NF	50.2	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,burn, or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

41	53002041-Cut	17.0	4141 - Birch (OI)	Poletimber Medium	53	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final Harvest with 2-3 retention islands. This stand will be combined with stand 30 in Compartment 1. Also, select 1-2 larger diameter trees per acre to fell and leave to provide drumming log opportunities for Ruffed Grouse.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A fully or moderately stocked stand of aspen or a mix of aspen and other representative species will be acceptable in determining regeneration success.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 236.8**

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 1

Richard McDonald : Examiner

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
582	541	0	41
139	110	29	0
79	79	0	0
6	0	0	6
233	10	0	223
1	1	0	0
191	185	0	6
25	25	0	0
13	13	0	0
8	0	0	8
15	15	0	0
141	131	10	0
2	2	0	0
1,435	1,112	39	284
	77%	3%	20%

Dominant Site Conditions

				4A	5F	2G	3H	3J
582	541	0	41					41
139	110	29	0	29				
79	79	0	0					
6	0	0	6			6		
233	10	0	223			210	14	
1	1	0	0					
191	185	0	6					6
25	25	0	0					
13	13	0	0					
8	0	0	8			8		
15	15	0	0					
141	131	10	0		10			
2	2	0	0					
1,435	1,112	39	284	29	10	224	14	47
	77%	3%	20%					

*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	2G: Too wet (sensitive soils, does not include access issues)	126	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Richard McDonald : Examiner

Compartment: 1
Year of Entry: 2019

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	4A: No Markets Available for these Forest Products	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 1

Richard McDonald : Examiner

Year of Entry: 2019

44	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	14	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
45	Available	5F: Evaluated for Forest Health Considerations	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Evaluate at re-inventory in 2017. Isolated stand.							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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 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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.

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Pigeon River Country Mgt. Unit

Report 7 – Forested Stands

Compartment: 1
Year of Entry: 2019

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4139 - Aspen, Mixed Deciduous	Sapling Medium	11.5	5	Immature	Wet ground, regeneration is spotty.
4130 - Aspen	Sapling Well	24.9	2	Immature	OPIIC - FMD: Special Aspen acres added to the Plan of Work in an effort to even out Aspen age classes. Completed in 2015.
6112 - Lowland Aspen	Poletimber Well	5.9	78	51-80	Natural drainage should be left undisturbed.
4110 - Sugar Maple Association	Sawtimber Well	10.6	93	81-110	
4130 - Aspen	Poletimber Well	40.9	46	81-110	Stand Year Origin was 1972
4116 - Mixed N. Hardwood - Aspen	Poletimber Well	2.4	92	81-110	Pocket of hardwood left from before the last time the surrounding stand was cut.
6120 - Lowland Cedar	Poletimber Well	3.8	123	51-80	Small part of larger swamp that lies mostly on private land to the west but extends over onto state.
429 - Mixed Upland Conifers	Poletimber Well	3.8	46	1-50	Stand Year Origin was 1972
429 - Mixed Upland Conifers	Sapling Medium	6.6	19	1-50	Portion of opening (stand 54) filling in with saplings.
429 - Mixed Upland Conifers	Poletimber Well	4.2	38	111-140	Narrow strip of Red Pine planted along road as a visual screen to protect the open field. Some rows of Spruce on the field side.
4319 - Mixed Upland Forest	Poletimber Well	12.8	56	51-80	OI Stand Year Origin was 1962
6120 - Lowland Cedar	Poletimber Well	10.2	83	51-80	OI Stand Year Origin was 1935. Stand is rather wet.
4134 - Aspen, Spruce/Fir	Poletimber Well	21.3	43	51-80	Emerging pole stand. Pretty heavy conifer understory.
4130 - Aspen	Sapling Well	26.2	27	Immature	Stand Year Origin was 1990
6120 - Lowland Cedar	Poletimber Medium	32.4	117	1-50	Very poor quality swamp. Black Ash has died out.
6123 - Lowland Fir	Poletimber Well	126.4	83	51-80	Wet swamp
4134 - Aspen, Spruce/Fir	Sapling Well	6.1	35	1-50	Stand Year Origin was 1982. Narrow aspen strip surrounded by swamp.
4130 - Aspen	Poletimber Well	22.1	51	51-80	Stand surrounded by swamp with flowing water. Not recommended for harvest. Good retention stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4319 - Mixed Upland Forest	Poletimber Well	118.3	41	51-80	Emerging pole stand with heavy fir component and understory competing with aspen thus the aspen is not quite as advanced as it might be in some other soil conditions.
24	6124 - Lowland Spruce- Fir	Sapling Well	10.4	41	1-50	OI Stand Year Origin was 1976
25	4134 - Aspen, Spruce/Fir	Sapling Medium	24.4	27	Immature	Stand Year Origin was 1990
28	42320 - Upland Spruce	Sapling Poor	2.1	18	Immature	Old landing site filling in with Spruce and Bam
29	6120 - Lowland Cedar	Poletimber Well	12.3	83	171-200	Good pocket of winter cover, Cedar is relatively small and too thick to remove Aspen.
30	4137 - Aspen, Birch	Poletimber Medium	7.6	50	51-80	Part of larger stand to the east.
31	4130 - Aspen	Sapling Well	24.7	27	1-50	Stand Year Origin was 1990.
32	6124 - Lowland Spruce- Fir	Poletimber Medium	34.3	86	51-80	Wet ground throughout the stand
33	4134 - Aspen, Spruce/Fir	Sawtimber Medium	18.8	80	51-80	Surrounded by swamp with flowing water. Good opportunity for a retention area.
37	6120 - Lowland Cedar	Poletimber Well	28.8	102	51-80	Low value, wet stand along floodplain of Pigeon River.
38	6120 - Lowland Cedar	Poletimber Medium	29.3	118	51-80	Stand Year Origin was 1900. Poor quality swamp. Deer yard
39	6120 - Lowland Cedar	Poletimber Well	16.1	116	171-200	OI Stand Year Origin was 1901. NFI concern; rare moth and species abstract reviewed. Look for Spirea during sale preparation. if found, protect area.
40	4134 - Aspen, Spruce/Fir	Poletimber Well	55.8	42	51-80	Emerging pole stand. Closed road connecting stands 62-68 will be worked and maintained as part of the opening complex.
41	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	48.8	116	81-110	Fairly wet drainage.
43	6120 - Lowland Cedar	Sawtimber Well	6.0	82	51-80	
44	6124 - Lowland Spruce- Fir	Poletimber Well	13.5	129	81-110	Fairly wet stand throughout the year.
45	4319 - Mixed Upland Forest	Poletimber Medium	9.7	82	1-50	Very poor quality Aspen. Allow White Pine understory to develop.

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Pigeon River Country Mgt. Unit

Report 7 – Forested Stands

Compartment: 1
Year of Entry: 2019

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6121 - Tamarack	Poletimber Well	8.1	130	51-80	
4134 - Aspen, Spruce/Fir	Poletimber Well	9.9	37	1-50	Stand Year Origin was 1980
4136 - Aspen, Mixed Conifer	Sapling Poor	17.8	4	Immature	Moderate success in regenerating but it is gradually filling in with a mix of species.
4130 - Aspen	Sapling Well	20.2	4	Immature	Stand Year Origin was 2013
6130 - Fir, Aspen, Maple	Poletimber Well	1.2	46	51-80	Narrow ravine with steep sides left out of timber sale as a retention area.
4130 - Aspen	Sapling Medium	27.9	3	Immature	Stand was cut in 2015 along with stand 52 and stand 2 as part of Chimney Corners Aspen sale. Regeneration starting to fill in nicely for just being cut. Expecting a fully stocked stand by next inventory cycle.
4130 - Aspen	Sapling Medium	36.8	3	Immature	Stand cut in 2015. Undulating ground with small ridge tops covered in Aspen regeneration. Lower areas in between does not have much regrowth starting yet.
4130 - Aspen	Poletimber Well	36.6	46	81-110	Stand Year Origin was 1972
4130 - Aspen	Poletimber Well	34.9	46	81-110	Stand Year Origin was 1972
4130 - Aspen	Poletimber Well	27.1	46	81-110	Stand Year Origin was 1972
4134 - Aspen, Spruce/Fir	Poletimber Well	43.8	43	51-80	
4134 - Aspen, Spruce/Fir	Poletimber Well	42.3	42	51-80	Emerging pole stand. Closed road connecting stands 62-66 will be worked and maintained as part of the opening complex. This part of stand 40 that will be delayed treatment because of timber sale acre limitations put on by the Concept of Management.



Stand	Cover Type	Acres	Managed Site	General Comments:
8	629 - Mixed non-forested wetland	6.3	No	Small creek bottom with most of the timber that was there dead or dying out.
10	6239 - Mixed Emergent Wetland	11.5	No	Marsh with old road running through it but not useable.
11	6239 - Mixed Emergent Wetland	10.2	No	Old Beaver flooding
16	6229 - Mixed lowland shrub	17.1	No	Portion of Q type that was killed by high water from Beaver flooding
26	622 - Lowland Shrub	2.9	No	Some scattered conifer and lowland deciduous trees scattered around the stand.
27	622 - Lowland Shrub	1.9	No	Some lowland conifer trees starting to fill in.
34	623 - Emergent Wetland	3.4	No	Old beaver flooding
35	622 - Lowland Shrub	10.8	No	
36	622 - Lowland Shrub	150.4	No	Pigeon River floodplain within the Natural Rivers corridor. NFI concern; rare moth noted and species abstract reviewed. Look for Spirea during sale preparation for stand 39.
42	6229 - Mixed lowland shrub	1.7	No	Black Ash has died out of the stand leaving mostly lowland shrubs.
53	310 - Herbaceous Openland	1.0	No	Possibly an old homestead site.
54	310 - Herbaceous Openland	10.9	No	
58	3102 - Grass	1.5	Yes	mowing and/or planting
59	3102 - Grass	0.9	No	scattered young trees gradually filling in opening mostly spruce, cherry and balm.
60	3102 - Grass	1.5	No	scattered young trees gradually filling in opening mostly spruce, cherry and balm.
61	3102 - Grass	0.8	No	Scattered young trees gradually filling in opening, mostly Spruce, Cherry and Balm.
62	3102 - Grass	2.6	Yes	mowing and/or planting
63	3102 - Grass	1.6	Yes	mowing and/or planting



Stand	Cover Type	Acres	Managed Site	General Comments:
64	3102 - Grass	1.6	Yes	mowing and/or planting
65	3102 - Grass	0.6	Yes	mowing and/or planting
66	3102 - Grass	2.0	Yes	mowing and/or planting
67	3102 - Grass	1.1	Yes	mowing and/or planting
68	3102 - Grass	2.0	Yes	mowing and/or planting
69	3102 - Grass	1.0	No	
70	310 - Herbaceous Openland	50.2	Yes	"Canthook Landing" opening to managed with prescribed fire to control encroaching cherry and other trees.