



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53021

Entry Year 2018

Acreage: 1,604

County Cheboygan

Management Area: Pigeon River Country

Revision Date: 2016-07-15

Stand Examiner: Richard McDonald

Legal Description:

T33N - R01E - sections 4, 5, 6

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 on the upland sites, 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.

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:

Duby Lake lies within the compartment boundaries. The Milligan Creek flows from Duby Lake north into the Black River, which is a designated trout stream.

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 10 and 100 feet. Beneath the glacial drift are the Devonian Antrim Shale and Traverse Group that is quarried for cement products and stone elsewhere in the State. A gravel pit is located two miles to the east 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 two miles to the southeast. The Antrim Shale appears to be very thin in this area and there is no known oil and gas 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. Non-development (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. However, the High Country Pathway traverses nearly the entire length of compartment 21.

Fire Protection:

Access is poor in case of any fire suppression efforts, though the area is generally at low risk to any major 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**



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Additional Compartment Information:

The following reports from the Inventory are attached:

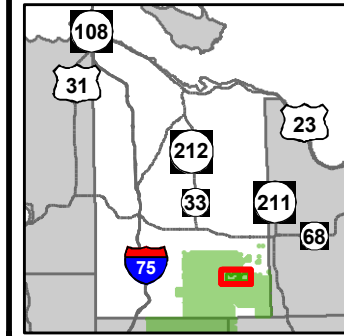
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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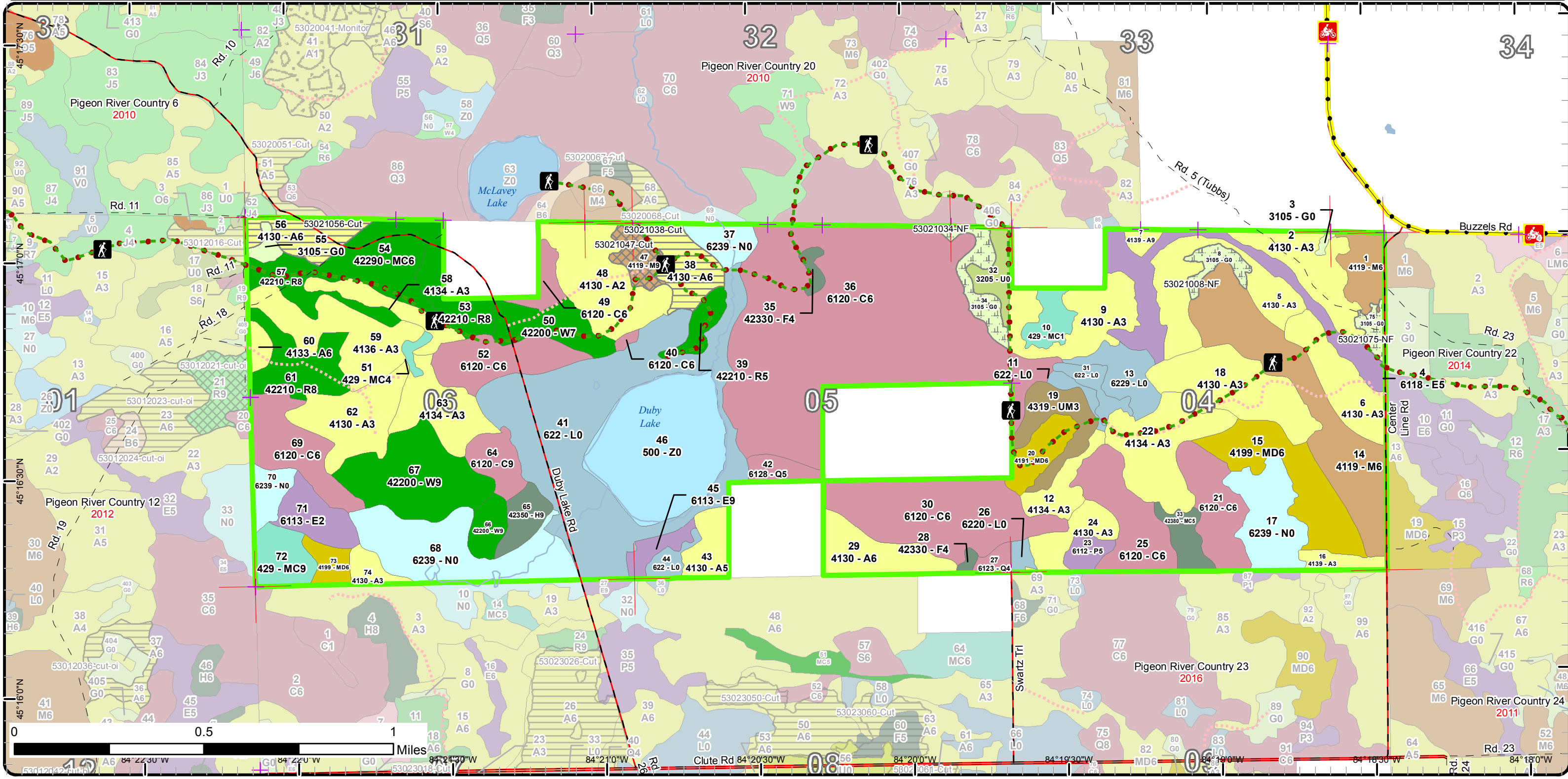
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 21
 T33N, R01E, Sec: 04, 05, 06
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2018
 Acres: 1604 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 7/28/2016
 Map Phase: Pre-Review

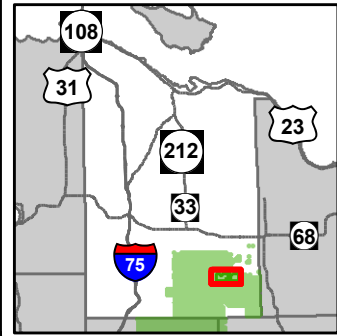


- Miris Corners
- + Remonumented Section Corners
- Bike Trails
- Hiking Trails
- MCCCT Trails
- Ski Trails
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- Designated Equestrian Trails
- - - Designated Ski Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- County Gravel Roads
- - - Poor Dirt Roads
- - - County Poor Dirt Roads
- - - Closed Roads
- Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

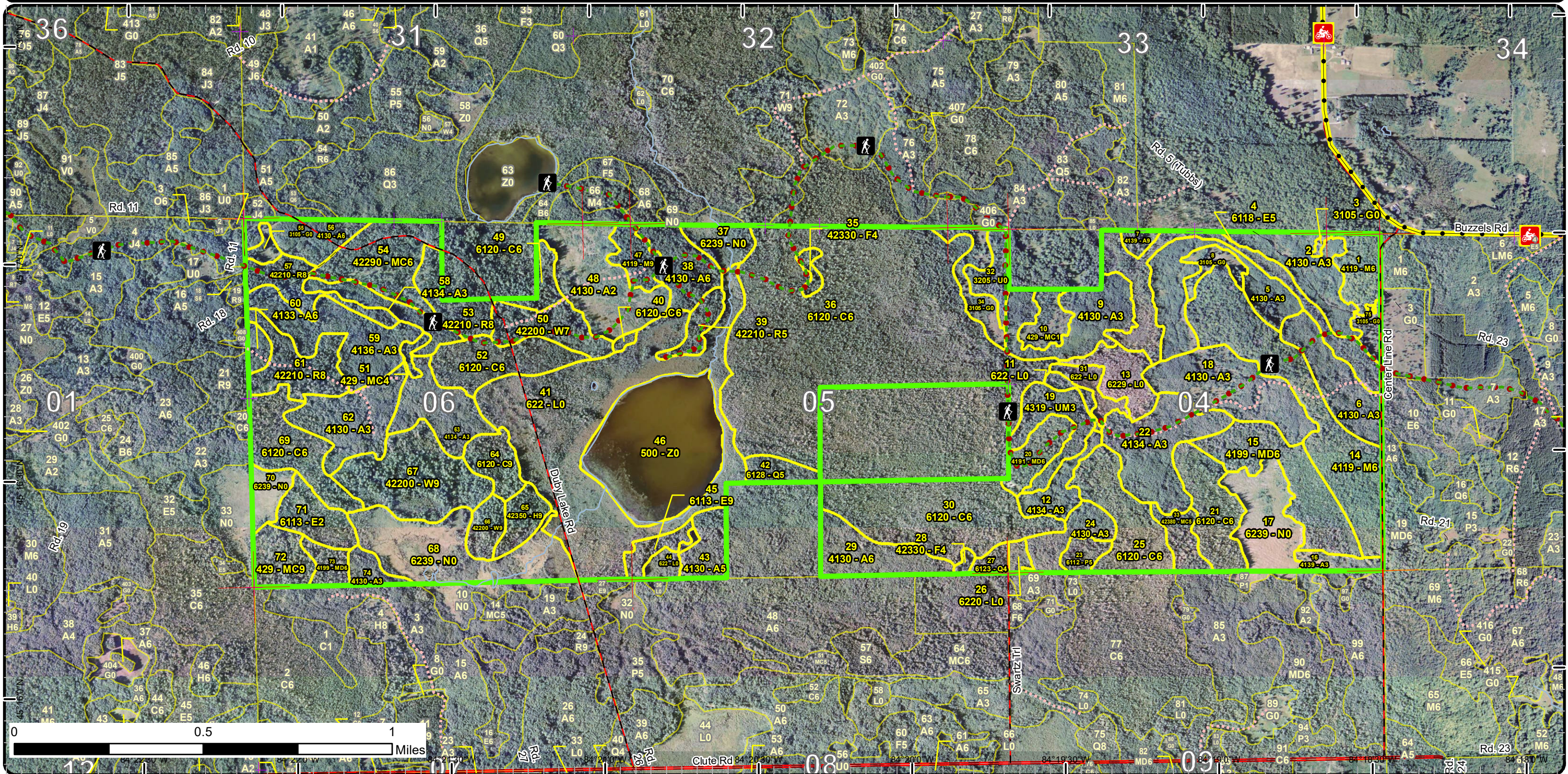


Stand Boundary Map

Compartment: 21
 T33N, R01E, Sec: 04, 05, 06
 County: Cheboygan
 Unit: Pigeon River Country
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 YOE: 2018
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 Map Phase: Review

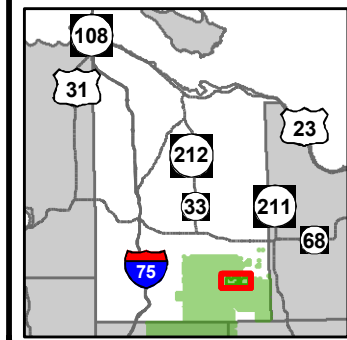


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- + Remonumented Section Corners
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- MCCCT Trails
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- Rivers
- Compartment Boundary
- Stand Boundaries
- 430 - Upland Mixed Forest
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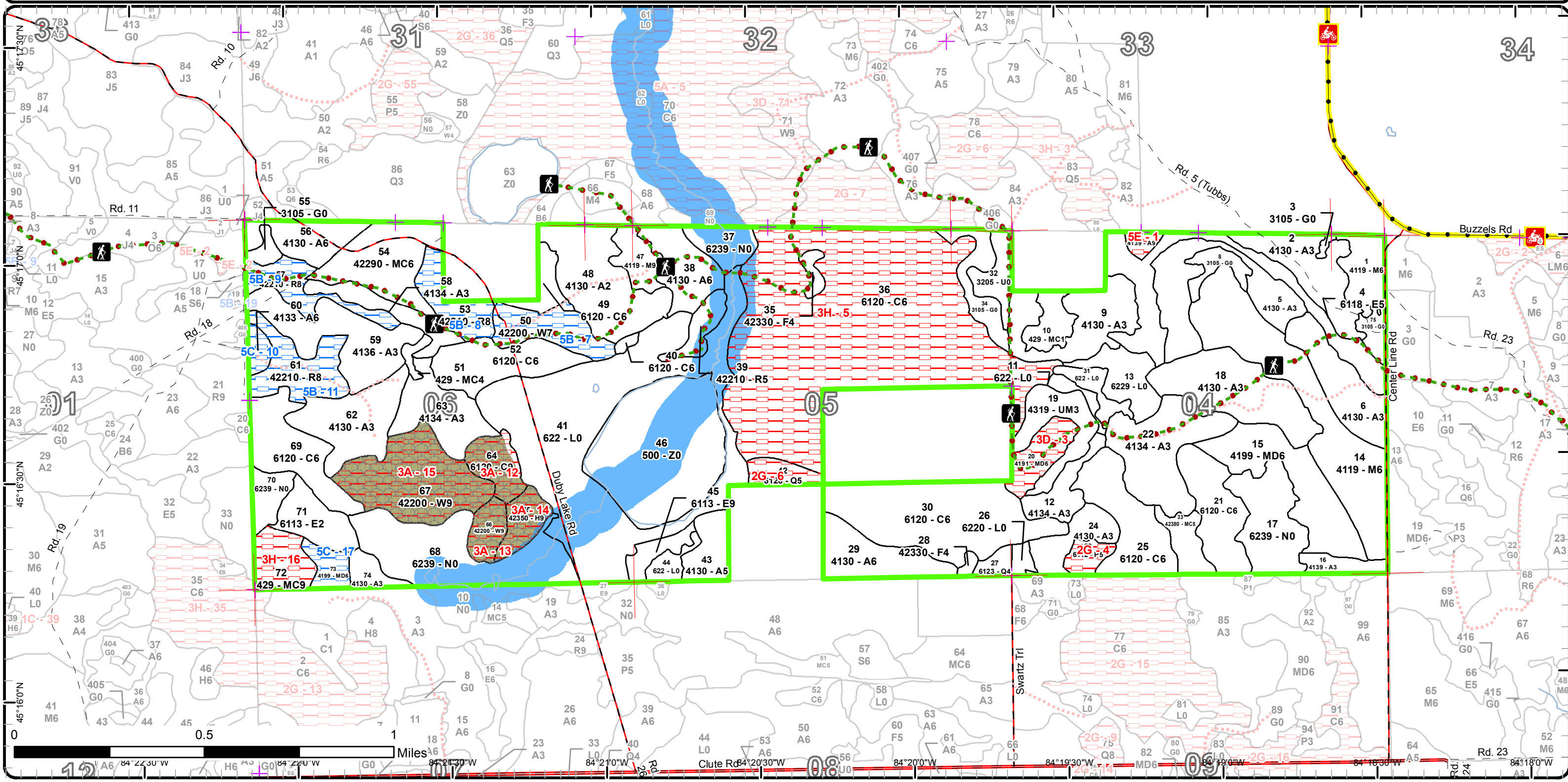


Special Conservation Areas & Site Conditions Map

Compartment: 21
 T33N, R01E, Sec: 04, 05, 06
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2018
 Acres: 1604 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 7/28/2016
 Map Phase: Pre-Review



- Miris Corners
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- Bike Trails
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- County Poor Dirt Roads
- - - Closed Roads
- Rivers
- Compartment Boundary
- SCA Removal
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Potential old growth / biodiversity
- 3D: Recreational / Scenic values
- 3H: Deer Wintering Areas
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Potential Old Growth
- Other SCA (No Category Assigned)
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality



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	38	61	147	138	0	38	0	0	0	3	0	0	0	0	0	0	0	424
Cedar	0	0	0	0	0	0	0	0	0	0	7	51	53	1	206	0	12	59	388
Hemlock	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
Herbaceous Openland	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
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	4	0	0	0	0	0	7	0	0	0	0	0	0	0	11
Lowland Deciduous	0	0	0	15	0	0	0	0	41	0	0	0	0	0	0	0	0	0	56
Lowland Shrub	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
Marsh	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Mixed Upland Deciduous	0	0	0	0	0	0	36	0	0	0	19	0	0	0	0	0	0	0	55
Natural Mixed Pines	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Northern Hardwood	0	0	0	0	0	0	13	0	0	0	10	0	0	0	0	0	0	63	86
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	22	0	29	0	0	8	59
Upland Conifers	0	0	0	9	2	0	0	0	9	14	0	0	0	0	0	0	0	0	34
Upland Mixed Forest	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Spruce/Fir	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	49	0	67
Total	356	38	61	171	179	17	87	0	56	14	56	51	75	1	253	0	61	130	1603



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 44
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	34	0	0	0	0	0	0	0	0	34
Northern Hardwood	0	10	0	0	0	0	0	0	0	10
Total	34	10	0	0	0	0	0	0	0	44

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	44	0	0	0	0	0	0	24	0	68
Next Step	0	0	0	0	0	44	0	0	0	44
Total	44	0	0	0	0	44	0	24	0	112



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
8	53021008-NF	6.4	3105 - Mixed Upland Herbaceous	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

34	53021034-NF	12.5	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

38	53021038-Cut	18.3	4130 - Aspen	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut the stand with 2-3 retention islands. Mark trees to fall and leave for Grouse drumming opportunities. Hiking trail passes through the stand in actually 4 directions, most of which are on existing two-track trail roads. Will try to limit impacts to the trail by putting retention pockets along the existing trail and limit crossing it with equipment. The fact that much of the trail is on old road and we will need to use that road for accessing the sale may cause some disruption or conflict with trail users. This portion of the trail is not highly traveled so we should limit conflicts by maybe doing it in the winter.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully stocked stand of Aspen regeneration is expected. There is some expectation of browsing but effects should be negligible.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

47	53021047-Cut	9.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Single tree selection managing for best tree in place. Remove any and all disease infected trees. There is a high likelihood of EAB and/or BBD in this stand. Mark residual down to 80-90 sq.ft. Try to create some regeneration holes to get regeneration established. High Country Pathway passes through the stand and it's important to limit the impact to the trail from logging damage. Specs should limit crossing of the trail by equipment to one or two locations and protecting blue marked trees.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Sugar Maple is preferred but any regeneration of existing tree species meeting a moderate stocking level will be acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
56 53021056-Cut	15.9	4130 - Aspen	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Clearcut with no more than two retention islands along leaving some Mature Red Pine scattered throughout the stand for a future seed source to promote a mixed stand. Mark some larger diameter trees throughout the sale to leave for grouse drumming logs.
Specs:

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

Acceptable Regen: A well stocked aspen stand is the goal, but a mix of existing species meeting a moderate to high stocking level will be acceptable in determining regeneration success.

Other Comment:

Proposed Start Date: 10/01/2017

75 53021075-NF	5.1	3105 - Mixed Upland Herbaceous	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

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

Next Step
Treatments:

Acceptable Regen:

Other Comment: Comment during pre-review for trail protection specs but trail does not enter the opening, but rather stays within the wood line of stand 4.

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed: 67.9

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 21

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	3A	3D	3H	5E		
424	417	4	3	Aspen		4							3
388	170	0	217	Cedar				12			206		
10	0	0	10	Hemlock				10					
28	28	0	0	Herbaceous Openland									
6	0	0	6	Lowland Aspen/Balsam Poplar				6					
11	4	0	7	Lowland Conifers				7					
56	56	0	0	Lowland Deciduous									
156	156	0	0	Lowland Shrub									
93	93	0	0	Marsh									
55	36	7	12	Mixed Upland Deciduous		7				12			
30	30	0	0	Natural Mixed Pines									
86	86	0	0	Northern Hardwood									
58	8	51	0	Red Pine	51								
35	21	0	14	Upland Conifers							14		
17	17	0	0	Upland Mixed Forest									
9	9	0	0	Upland Shrub									
5	5	0	0	Upland Spruce/Fir									
69	69	0	0	Water									
68	0	18	50	White Pine	18			50					
1,604	1,205	80	319	Total Forested Acres	69	11	13	71	12	220		3	
	75%	5%	20%	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	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3D: Recreational / Scenic values	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 21

Richard McDonald : Examiner

Year of Entry: 2018

4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Areas	206	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Richard McDonald : Examiner

Compartment: 21
Year of Entry: 2018

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delaying to manage with stand 16 in Compartment 12 (yoe 2022)							
11	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3A: Potential old growth / biodiversity	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3A: Potential old growth / biodiversity	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3A: Potential old growth / biodiversity	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3A: Potential old growth / biodiversity	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3H: Deer Wintering Areas	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 21

Richard McDonald : Examiner

Year of Entry: 2018

17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
	Potential Old Growth		SCA Removal	70
Comments				
	Potential Old Growth		SCA Removal	70
Comments				
This area no longer meets the criteria to be classified as a Special Conservation Area.				



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.

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Pigeon River Country Mgt. Unit

Report 7 – Forested Stands

Compartment: 21
Year of Entry: 2018

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4119 - Mixed Northern Hardwoods	Poletimber Well	13.2	55	81-110	
4130 - Aspen	Sapling Well	24.3	15	Immature	Stand cut in 2001. Good aspen throughout most of stand.
6118 - Lowland Deciduous with Cedar	Poletimber Medium	33.9	76	51-80	WET DRAINAGE - HCP RUNS THROUGH STAND. Black Ash has died out.
4130 - Aspen	Sapling Well	29.9	15	Immature	Stand cut in 2001.
4130 - Aspen	Sapling Well	23.6	27	Immature	HCP RUNS THRU STAND
4139 - Aspen, Mixed Deciduous	Sawtimber Well	3.2	95	81-110	This stand is locked in by private property on the east and the remainder is surrounded by wet ground. Area involved is relatively small. Isolated pocket of mature Aspen mix that would serve well as a retention pocket. Would have access to it when stand 82 in Compartment 20 is cut.
4130 - Aspen	Sapling Well	28.2	25	Immature	Some browse damage over the years.
429 - Mixed Upland Conifers	Sapling Poor	9.1	25	1-50	Part of same cut as stand9. This part did not regenerate due in part to some heavy browsing early on after the cutting.
4134 - Aspen, Spruce/Fir	Sapling Well	10.9	27	Immature	
4119 - Mixed Northern Hardwoods	Poletimber Well	63.2	75	81-110	: HCP RUNS THROUGH STAND
4199 - Other Mixed Upland Deciduous	Poletimber Well	35.6	50	81-110	
4139 - Aspen, Mixed Deciduous	Sapling Well	6.4	18	Immature	West end of the stand is fairly sparse but the east is well stocked.
4130 - Aspen	Sapling Well	37.3	27	Immature	PORTIONS OF STAND DID NOT REGENERATE WELL, PLUS SIGNS OF BROWSING HCP RUNS THROUGH STAND
4319 - Mixed Upland Forest	Sapling Well	17.2	46	1-50	Mixed stand that looks to be converting to Fir - HCP RUNS THRU
4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.3	90	51-80	HCP RUNS THROUGH - VERY SCENIC STAND. Maintain for recreational influence.
6120 - Lowland Cedar	Poletimber Well	23.9	110	81-110	Wet cedar. Cedar is small (1-2 sticks) for it's age.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4134 - Aspen, Spruce/Fir	Sapling Well	35.6	35	1-50	High Country Pathway runs through the stand. This stand can be fairly wet at times.
23	6112 - Lowland Aspen	Poletimber Medium	5.7	75	1-50	Wet stand
24	4130 - Aspen	Sapling Well	13.3	36	1-50	Nice emerging pole stand.
25	6120 - Lowland Cedar	Poletimber Well	28.9	110	111-140	Somewhat wet stand - deer yard.
27	6123 - Lowland Fir	Poletimber Poor	3.7	37	1-50	
28	42330 - Upland Fir	Poletimber Poor	1.5	37	1-50	Semi-open high spot with scattered conifer pockets surrounded by wetter ground.
29	4130 - Aspen	Poletimber Well	21.6	37	1-50	Nice emerging pole stand. Nowhere near ready to cut.
30	6120 - Lowland Cedar	Poletimber Well	58.5	130	51-80	Wet, slow growing stand. Some deer yarding activity.
33	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Medium	9.2	78	51-80	Complex of ridges and lowland runs separating 2 cedar swamps.
35	42330 - Upland Fir	Poletimber Poor	3.0	36	1-50	Small island of high ground amidst the cedar swamp. HCP passes through this stand.
36	6120 - Lowland Cedar	Poletimber Well	205.6	130	51-80	Low productivity swamp. Cedar is quite small for it's age. Stand is quite variable BA wise throughout. Quite a bit of water drains through the stand.
38	4130 - Aspen	Poletimber Well	18.3	51	81-110	Nice aspen stand ready to cut. The stand actually extends north into adjacent compartment, so that part of the stand will be included also.
39	42210 - Natural Red Pine	Poletimber Medium	7.8	110	51-80	Duby Lake spur of HCP runs along this narrow pine ridge.
40	6120 - Lowland Cedar	Poletimber Well	1.3	127	81-110	
42	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	7.1	97	1-50	STAND IS CONVERTING TO FIR
43	4130 - Aspen	Poletimber Medium	11.9	39	51-80	Nice emerging pole stand. Will need to cut with stand 48 (comp. 23) when that comes up due to access issues.
45	6113 - Lowland Maple	Sawtimber Well	6.7	71	51-80	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4119 - Mixed Northern Hardwoods	Sawtimber Well	9.7	90	111-140	Decent hardwood. Treat along with stand 38 when that is cut.
48	4130 - Aspen	Sapling Medium	37.7	5	Immature	06/08/2016 Regen survey - QA 1183 TPA (4'), BTA 450 TPA (5'), RM 517 TPA (1'), PB 250 TPA (1'), TAM 17 TPA (3.5'), RP 17 TPA (6"). Stand falls just below required 2000 TPA for aspen. -Overall, aspen has regenerated quite well with limited browse impacts, however the regen is quite patchy throughout. Areas where hardwoods were cut out in the east half have not regenerated as well and most stump sprouts are dead. Two large lowland areas closer to the west edge have not regenerated very well either. Paper birch and QA are showing up in these wet spots but are showing browse damage. Residual trees mostly along the west line. A few small instances of rutting damage in the wet areas but nothing too severe.
49	6120 - Lowland Cedar	Poletimber Well	7.0	98	81-110	A good portion of this swamp is on private.
50	42200 - Natural White Pine	Sawtimber Poor	18.2	131	1-50	Stand was cut in 1990. Everything cut but the big pine.
51	429 - Mixed Upland Conifers	Poletimber Poor	2.3	36	1-50	Small patch of higher ground than surrounding area was more open but is filling in with mixed conifers.
52	6120 - Lowland Cedar	Poletimber Well	24.5	100	111-140	Wet cedar stand
53	42210 - Natural Red Pine	Sawtimber Medium	14.2	131	51-80	Stand was selectively cut in 2001.
54	42290 - Natural Mixed Pine	Poletimber Well	30.2	37	51-80	This stand was cut in originally cut in in 1979 and had a fair amount of residual pine left. It has since filled in with mixed pine and had a delayed removal cut in 2001 to remove the overstory. The sapling understory back in 2001 is now primarily pole size but with a mix of saplings in areas that the overstory was removed. HCP runs along the south edge of the stand.
56	4130 - Aspen	Poletimber Well	15.9	51	81-110	Good aspen with varying size classes. There is some smaller submerchantable trees but overall it's good.
57	42210 - Natural Red Pine	Sawtimber Medium	14.7	134	51-80	Stand had a shelterwood cut done in 2001. HCP passes through stand.
58	4134 - Aspen, Spruce/Fir	Sapling Well	12.4	26	Immature	
59	4136 - Aspen, Mixed Conifer	Sapling Well	33.1	36	1-50	Nice young emerging pole stand that is nowhere near ready to cut.
60	4133 - Aspen, Mixed Pine	Poletimber Well	4.2	51	51-80	Small acreage that ties into a larger stand across the trail road in Compartment 12 (stand 16). Manage with that stand in 2022.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	42210 - Natural Red Pine	Sawtimber Medium	21.7	114	51-80	Stand was cut in 1988 except for pine. Wait to cut pine when understory Aspen becomes merchantable.
62	4130 - Aspen	Sapling Well	28.0	27	Immature	
63	4134 - Aspen, Spruce/Fir	Sapling Well	22.4	33	Immature	
64	6120 - Lowland Cedar	Sawtimber Well	11.8	156	141-170	Nice stand of mature Cedar with mature White Pine. Unique area with Hemlock stand adjacent. Recommended for SCA.
65	42350 - Upland Hemlock	Sawtimber Well	9.7	91	141-170	Part of a unique complex of stands hemlock, cedar and mature white pine in varying combinations. Recommended for SCA
66	42200 - Natural White Pine	Sawtimber Well	8.4	156	141-170	Very nice stand of virgin White Pine next to Hemlock stand. Recommended for SCA.
67	42200 - Natural White Pine	Sawtimber Well	41.4	156	51-80	Stand had aspen and hardwood removed in 1983. Some hardwood regen heavily browsed. Recommended for SCA.
69	6120 - Lowland Cedar	Poletimber Well	26.3	106	81-110	Variable quality throughout swamp. It gets wetter toward the south end.
71	6113 - Lowland Maple	Sapling Medium	15.0	21	Immature	Portion of Cedar swamp killed off by high water from beaver activity.
72	429 - Mixed Upland Conifers	Sawtimber Well	14.2	88	111-140	
73	4199 - Other Mixed Upland Deciduous	Poletimber Well	7.0	91	51-80	Poor quality hardwood
74	4130 - Aspen	Sapling Well	6.1	27	Immature	Part of a larger stand (3) to the south in compartment 23.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	3105 - Mixed Upland Herbaceous	1.0	No	Natural opening on top of the hill next to private.
8	3105 - Mixed Upland Herbaceous	6.4	No	Natural opening with scattered conifers.
11	622 - Lowland Shrub	3.4	No	HCP RUNS THRU STAND
13	6229 - Mixed lowland shrub	14.8	No	Stand is very wet,
17	6239 - Mixed Emergent Wetland	26.9		2014- Updated after regen survey. Regen failure at this point as the stand is mostly a non-forested wetland. CHS Cedar, #53-016-08-01.
26	6220 - Alder/willow	2.8	No	
31	622 - Lowland Shrub	6.9	No	Part of adjacent Cedar stand that flooded and died and was later salvaged in 1996.
32	3205 - Mixed Upland Shrub	9.4	No	OPENING IS FILLING IN WITH TAG ALDER - HCP RUNS THRU. Old homestead site. Proposed cut with Hydroaxe to clean tag alder out and set back encroachment of the opening.
34	3105 - Mixed Upland Herbaceous	12.5	No	OPIC - FMD: Opening filling in with Tag Alder. Old homestead site. Propose cutting with hydroaxe or equivalent machine to maintain opening. Treat along with stand 406 in Comp. 20 to the north.
37	6239 - Mixed Emergent Wetland	10.0	No	Beaver floods periodically along Milligan Creek.
41	622 - Lowland Shrub	123.4	No	LOWLAND SURROUNDING DUBY LAKE - HCP CROSSES MILLIGAN CREEK TO NORTH
44	622 - Lowland Shrub	5.0	No	Opening created back in the 1970's that has grown in with Tag Alder primarily.
46	500 - Water	69.5	No	Duby Lake
55	3105 - Mixed Upland Herbaceous	3.4	No	Natural opening.
68	6239 - Mixed Emergent Wetland	47.6	No	Series of beaver marshes along Peck Creek
70	6239 - Mixed Emergent Wetland	8.3	No	Beaver marsh
75	3105 - Mixed Upland Herbaceous	5.1	No	Some scattered cherry, maple and white pine.

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	38	61	147	126	12	38	0	0	0	3	0	0	0	0	0	0	0	424
Cedar	0	0	0	0	0	0	0	0	0	0	7	51	53	1	206	0	12	59	388
Hemlock	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
Herbaceous Openland	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
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	4	0	0	0	0	0	7	0	0	0	0	0	0	0	11
Lowland Deciduous	0	0	0	15	0	0	0	0	41	0	0	0	0	0	0	0	0	0	56
Lowland Shrub	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
Marsh	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Mixed Upland Deciduous	0	0	0	0	0	0	36	0	0	0	19	0	0	0	0	0	0	0	55
Natural Mixed Pines	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Northern Hardwood	0	0	0	0	0	0	13	0	0	0	10	0	0	0	0	0	0	63	86
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	22	0	29	0	0	8	59
Upland Conifers	0	0	0	9	2	0	0	0	9	14	0	0	0	0	0	0	0	0	34
Upland Mixed Forest	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Spruce/Fir	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	49	0	67
Total	356	38	61	171	167	29	87	0	56	14	56	51	75	1	253	0	61	130	1603



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 44
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	34	0	0	0	0	0	0	0	0	34
Northern Hardwood	0	10	0	0	0	0	0	0	0	10
Total	34	10	0	0	0	0	0	0	0	44

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	44	0	0	0	0	0	0	0	27	71
Next Step	0	0	0	0	0	0	44	0	0	44
Total	44	0	0	0	0	0	44	0	27	115



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
8	53021008-NF	6.4	3105 - Mixed Upland Herbaceous	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

34	53021034-NF	12.5	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

38	53021038-Cut	18.3	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Clearcut the stand with 2-3 retention islands. Mark trees to fall and leave for Grouse drumming opportunities. Hiking trail passes through the stand in actually 4 directions, most of which are on existing two-track trail roads. Will try to limit impacts to the trail by putting retention pockets along the existing trail and limit crossing it with equipment. The fact that much of the trail is on old road and we will need to use that road for accessing the sale may cause some disruption or conflict with trail users. This portion of the trail is not highly traveled so we should limit conflicts by maybe doing it in the winter.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully stocked stand of Aspen regeneration is expected. There is some expectation of browsing but effects should be negligible.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

47	53021047-Cut	9.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Single tree selection managing for best tree in place. Remove any and all disease infected trees. There is a high likelihood of EAB and/or BBD in this stand. Mark residual down to 80-90 sq.ft. Try to create some regeneration holes to get regeneration established. High Country Pathway passes through the stand and it's important to limit the impact to the trail from logging damage. Specs should limit crossing of the trail by equipment to one or two locations and protecting blue marked trees.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Sugar Maple is preferred but any regeneration of existing tree species meeting a moderate stocking level will be 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
55	53021055-NF	3.4	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

56	53021056-Cut	15.9	4130 - Aspen	Poletimber Well	52	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 no more than two retention islands along leaving some Mature Red Pine scattered throughout the stand for a future seed source to promote a mixed stand. Mark some larger diameter trees throughout the sale to leave for grouse drumming logs.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

A well stocked aspen stand is the goal, but a mix of existing species meeting a moderate to high stocking level will be acceptable in determining regeneration success.

Other

Comment:

Proposed Start Date: 10/01/2017

75	53021075-NF	5.1	3105 - Mixed Upland Herbaceous	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, and/or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment during pre-review for trail protection specs but trail does not enter the opening, but rather stays within the wood line of stand 4.

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 71.3**

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 21

Richard McDonald : Examiner

Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions										
		With Condition				5B	5C	5F	2G	3A	3D	3H	5E			
424	417	4	3		Aspen		4									3
388	170	0	217		Cedar					12					206	
10	0	0	10		Hemlock					10						
28	28	0	0		Herbaceous Openland											
6	0	0	6		Lowland Aspen/Balsam Poplar				6							
11	4	0	7		Lowland Conifers				7							
56	56	0	0		Lowland Deciduous											
156	156	0	0		Lowland Shrub											
93	93	0	0		Marsh											
55	36	7	12		Mixed Upland Deciduous		7					12				
30	30	0	0		Natural Mixed Pines											
86	86	0	0		Northern Hardwood											
58	8	51	0		Red Pine	51										
35	11	9	14		Upland Conifers			9							14	
17	17	0	0		Upland Mixed Forest											
9	9	0	0		Upland Shrub											
5	5	0	0		Upland Spruce/Fir											
69	69	0	0		Water											
68	0	18	50		White Pine	18				50						
1,604	1,196	89	319		Total Forested Acres	69	11	9	13	71	12	220	3			
	75%	6%	20%		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	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Richard McDonald : Examiner

Compartment: 21
Year of Entry: 2018

2	Available	5F: Evaluated for Forest Health Considerations	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3D: Recreational / Scenic values	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Areas	206	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Richard McDonald : Examiner

Compartment: 21
Year of Entry: 2018

8	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delaying to manage with stand 16 in Compartment 12 (yoe 2022)							
11	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3A: Potential old growth / biodiversity	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3A: Potential old growth / biodiversity	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 21

Richard McDonald : Examiner

Year of Entry: 2018

14	Unavailable	3A: Potential old growth / biodiversity	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3A: Potential old growth / biodiversity	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3H: Deer Wintering Areas	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
	Potential Old Growth		SCA Removal	70

Comments

This area no longer meets the criteria to be classified as a Special Conservation Area.



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.

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Pigeon River Country Mgt. Unit

Report 7 – Forested Stands

Compartment: 21
Year of Entry: 2018

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4119 - Mixed Northern Hardwoods	Poletimber Well	13.2	56	81-110	
4130 - Aspen	Sapling Well	24.3	16	Immature	Stand cut in 2001. Good aspen throughout most of stand.
6118 - Lowland Deciduous with Cedar	Poletimber Medium	33.9	77	51-80	WET DRAINAGE - HCP RUNS THROUGH STAND. Black Ash has died out.
4130 - Aspen	Sapling Well	29.9	16	Immature	Stand cut in 2001.
4130 - Aspen	Sapling Well	23.6	28	Immature	HCP RUNS THRU STAND
4139 - Aspen, Mixed Deciduous	Sawtimber Well	3.2	96	81-110	This stand is locked in by private property on the east and the remainder is surrounded by wet ground. Area involved is relatively small. Isolated pocket of mature Aspen mix that would serve well as a retention pocket. Would have access to it when stand 82 in Compartment 20 is cut.
4130 - Aspen	Sapling Well	28.2	26	Immature	Some browse damage over the years.
429 - Mixed Upland Conifers	Sapling Poor	9.1	26	1-50	Part of same cut as stand9. This part did not regenerate due in part to some heavy browsing early on after the cutting.
4134 - Aspen, Spruce/Fir	Sapling Well	10.9	28	Immature	
4119 - Mixed Northern Hardwoods	Poletimber Well	63.2	76	81-110	: HCP RUNS THROUGH STAND
4199 - Other Mixed Upland Deciduous	Poletimber Well	35.6	51	81-110	
4139 - Aspen, Mixed Deciduous	Sapling Well	6.4	19	Immature	West end of the stand is fairly sparse but the east is well stocked.
4130 - Aspen	Sapling Well	37.3	28	Immature	PORTIONS OF STAND DID NOT REGENERATE WELL, PLUS SIGNS OF BROWSING HCP RUNS THROUGH STAND
4319 - Mixed Upland Forest	Sapling Well	17.2	47	1-50	Mixed stand that looks to be converting to Fir - HCP RUNS THRU
4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.3	91	51-80	HCP RUNS THROUGH - VERY SCENIC STAND. Maintain for recreational influence.
6120 - Lowland Cedar	Poletimber Well	23.9	111	81-110	Wet cedar. Cedar is small (1-2 sticks) for it's age.
4134 - Aspen, Spruce/Fir	Sapling Well	35.6	36	1-50	High Country Pathway runs through the stand. This stand can be fairly wet at times.

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Pigeon River Country Mgt. Unit

Report 7 – Forested Stands

Compartment: 21
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	6112 - Lowland Aspen	Poletimber Medium	5.7	76	1-50	Wet stand
24	4130 - Aspen	Sapling Well	13.3	37	1-50	Nice emerging pole stand.
25	6120 - Lowland Cedar	Poletimber Well	28.9	111	111-140	Somewhat wet stand - deer yard.
27	6123 - Lowland Fir	Poletimber Poor	3.7	38	1-50	
28	42330 - Upland Fir	Poletimber Poor	1.5	38	1-50	Semi-open high spot with scattered conifer pockets surrounded by wetter ground.
29	4130 - Aspen	Poletimber Well	21.6	38	1-50	Nice emerging pole stand. Nowhere near ready to cut.
30	6120 - Lowland Cedar	Poletimber Well	58.5	131	51-80	Wet, slow growing stand. Some deer yarding activity.
33	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Medium	9.2	79	51-80	Complex of ridges and lowland runs separating 2 cedar swamps.
35	42330 - Upland Fir	Poletimber Poor	3.0	37	1-50	Small island of high ground amidst the cedar swamp. HCP passes through this stand.
36	6120 - Lowland Cedar	Poletimber Well	205.6	131	51-80	Low productivity swamp. Cedar is quite small for it's age. Stand is quite variable BA wise throughout. Quite a bit of water drains through the stand.
38	4130 - Aspen	Poletimber Well	18.3	52	81-110	Nice aspen stand ready to cut. The stand actually extends north into adjacent compartment, so that part of the stand will be included also.
39	42210 - Natural Red Pine	Poletimber Medium	7.8	111	51-80	Duby Lake spur of HCP runs along this narrow pine ridge.
40	6120 - Lowland Cedar	Poletimber Well	1.3	128	81-110	
42	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	7.1	98	1-50	STAND IS CONVERTING TO FIR
43	4130 - Aspen	Poletimber Medium	11.9	40	51-80	Nice emerging pole stand. Will need to cut with stand 48 (comp. 23) when that comes up due to access issues.
45	6113 - Lowland Maple	Sawtimber Well	6.7	72	51-80	
47	4119 - Mixed Northern Hardwoods	Sawtimber Well	9.7	91	111-140	Decent hardwood. Treat along with stand 38 when that is cut.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4130 - Aspen	Sapling Medium	37.7	6	Immature	06/08/2016 Regen survey - QA 1183 TPA (4'), BTA 450 TPA (5'), RM 517 TPA (1'), PB 250 TPA (1'), TAM 17 TPA (3.5'), RP 17 TPA (6"). Stand falls just below required 2000 TPA for aspen. -Overall, aspen has regenerated quite well with limited browse impacts, however the regen is quite patchy throughout. Areas where hardwoods were cut out in the east half have not regenerated as well and most stump sprouts are dead. Two large lowland areas closer to the west edge have not regenerated very well either. Paper birch and QA are showing up in these wet spots but are showing browse damage. Residual trees mostly along the west line. A few small instances of rutting damage in the wet areas but nothing too severe.
49	6120 - Lowland Cedar	Poletimber Well	7.0	99	81-110	A good portion of this swamp is on private.
50	42200 - Natural White Pine	Sawtimber Poor	18.2	132	1-50	Stand was cut in 1990. Everything cut but the big pine.
51	429 - Mixed Upland Conifers	Poletimber Poor	2.3	37	1-50	Small patch of higher ground than surrounding area was more open but is filling in with mixed conifers.
52	6120 - Lowland Cedar	Poletimber Well	24.5	101	111-140	Wet cedar stand
53	42210 - Natural Red Pine	Sawtimber Medium	14.2	132	51-80	Stand was selectively cut in 2001.
54	42290 - Natural Mixed Pine	Poletimber Well	30.2	38	51-80	This stand was cut in originally cut in in 1979 and had a fair amount of residual pine left. It has since filled in with mixed pine and had a delayed removal cut in 2001 to remove the overstory. The sapling understory back in 2001 is now primarily pole size but with a mix of saplings in areas that the overstory was removed. HCP runs along the south edge of the stand.
56	4130 - Aspen	Poletimber Well	15.9	52	81-110	Good aspen with varying size classes. There is some smaller submerchantable trees but overall it's good.
57	42210 - Natural Red Pine	Sawtimber Medium	14.7	135	51-80	Stand had a shelterwood cut done in 2001. HCP passes through stand.
58	4134 - Aspen, Spruce/Fir	Sapling Well	12.4	27	Immature	
59	4136 - Aspen, Mixed Conifer	Sapling Well	33.1	37	1-50	Nice young emerging pole stand that is nowhere near ready to cut.
60	4133 - Aspen, Mixed Pine	Poletimber Well	4.2	52	51-80	Small acreage that ties into a larger stand across the trail road in Compartment 12 (stand 16). Manage with that stand in 2022.
61	42210 - Natural Red Pine	Sawtimber Medium	21.7	115	51-80	Stand was cut in 1988 except for pine. Wait to cut pine when understory Aspen becomes merchantable.
62	4130 - Aspen	Sapling Well	28.0	28	Immature	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4134 - Aspen, Spruce/Fir	Sapling Well	22.4	34	Immature	
64	6120 - Lowland Cedar	Sawtimber Well	11.8	157	141-170	Nice stand of mature Cedar with mature White Pine. Unique area with Hemlock stand adjacent. Recommended for SCA.
65	42350 - Upland Hemlock	Sawtimber Well	9.7	92	141-170	Part of a unique complex of stands hemlock, cedar and mature white pine in varying combinations. Recommended for SCA
66	42200 - Natural White Pine	Sawtimber Well	8.4	157	141-170	Very nice stand of virgin White Pine next to Hemlock stand. Recommended for SCA.
67	42200 - Natural White Pine	Sawtimber Well	41.4	157	51-80	Stand had aspen and hardwood removed in 1983. Some hardwood regen heavily browsed. Recommended for SCA.
69	6120 - Lowland Cedar	Poletimber Well	26.3	107	81-110	Variable quality throughout swamp. It gets wetter toward the south end.
71	6113 - Lowland Maple	Sapling Medium	15.0	22	Immature	Portion of Cedar swamp killed off by high water from beaver activity.
72	429 - Mixed Upland Conifers	Sawtimber Well	14.2	89	111-140	
73	4199 - Other Mixed Upland Deciduous	Poletimber Well	7.0	92	51-80	Poor quality hardwood
74	4130 - Aspen	Sapling Well	6.1	28	Immature	Part of a larger stand (3) to the south in compartment 23.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	3105 - Mixed Upland Herbaceous	1.0	No	Natural opening on top of the hill next to private.
8	3105 - Mixed Upland Herbaceous	6.4	No	Natural opening with scattered conifers.
11	622 - Lowland Shrub	3.4	No	HCP RUNS THRU STAND
13	6229 - Mixed lowland shrub	14.8	No	Stand is very wet,
17	6239 - Mixed Emergent Wetland	26.9		2014- Updated after regen survey. Regen failure at this point as the stand is mostly a non-forested wetland. CHS Cedar, #53-016-08-01.
26	6220 - Alder/willow	2.8	No	
31	622 - Lowland Shrub	6.9	No	Part of adjacent Cedar stand that flooded and died and was later salvaged in 1996.
32	3205 - Mixed Upland Shrub	9.4	No	OPENING IS FILLING IN WITH TAG ALDER - HCP RUNS THRU. Old homestead site. Proposed cut with Hydroaxe to clean tag alder out and set back encroachment of the opening.
34	3105 - Mixed Upland Herbaceous	12.5	No	OPIC - FMD: Opening filling in with Tag Alder. Old homestead site. Propose cutting with hydroaxe or equivalent machine to maintain opening. Treat along with stand 406 in Comp. 20 to the north.
37	6239 - Mixed Emergent Wetland	10.0	No	Beaver floods periodically along Milligan Creek.
41	622 - Lowland Shrub	123.4	No	LOWLAND SURROUNDING DUBY LAKE - HCP CROSSES MILLIGAN CREEK TO NORTH
44	622 - Lowland Shrub	5.0	No	Opening created back in the 1970's that has grown in with Tag Alder primarily.
46	500 - Water	69.5	No	Duby Lake
55	3105 - Mixed Upland Herbaceous	3.4	No	Natural opening.
68	6239 - Mixed Emergent Wetland	47.6	No	Series of beaver marshes along Peck Creek
70	6239 - Mixed Emergent Wetland	8.3	No	Beaver marsh
75	3105 - Mixed Upland Herbaceous	5.1	No	Some scattered cherry, maple and white pine.