



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53002

Entry Year 2022

Acreage: 1,840

County Cheboygan

Management Area: Pigeon River Country

Revision Date: 2020-07-16

Stand Examiner: Richard McDonald

Legal Description:

T34N - R01W Sections 20, 29 and 32

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:

Terrain is flat to gently rolling with the uplands comprised of primarily well-drained Cheboygan-Blue Lakes Association and AuGres-Rubicon-Roscommon Association.

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

Nearly all state-owned lands bordering private on the north.

Unique Natural Features:

None identified

Archeological, Historical, and Cultural Features:

None identified

Special Management Designations or Considerations:

The Pigeon River is a State-designated Natural River.

Watershed and Fisheries Considerations:

A portion of the Pigeon River flows through the southwest corner of the compartment. Both Nelson and McIntosh Creeks have their headwaters in or near this compartment and flow into the Pigeon River. Heavy beaver activity on both waterways.

Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse textured glacial till and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 50 and 200 feet. Beneath the glacial drift is the Devonian Antrim Shale and Traverse Group, quarried for stone and cement products elsewhere in the state. The nearest gravel pit is three miles to the northeast and potential is considered low in this area. No oil and gas leases remain after 2001. There is no 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.

Vehicle Access:

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

Survey Needs:

None required.

Recreational Facilities and Opportunities:

No developed recreational facilities or trails exist in this compartment and none are needed.

Fire Protection:

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

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

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

Report 1 – Total Acres by Cover Type and Age Class

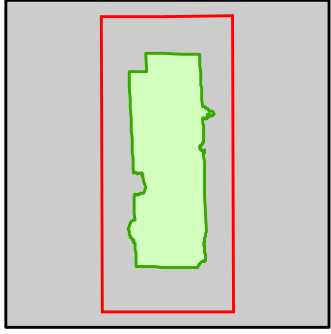


Age Class

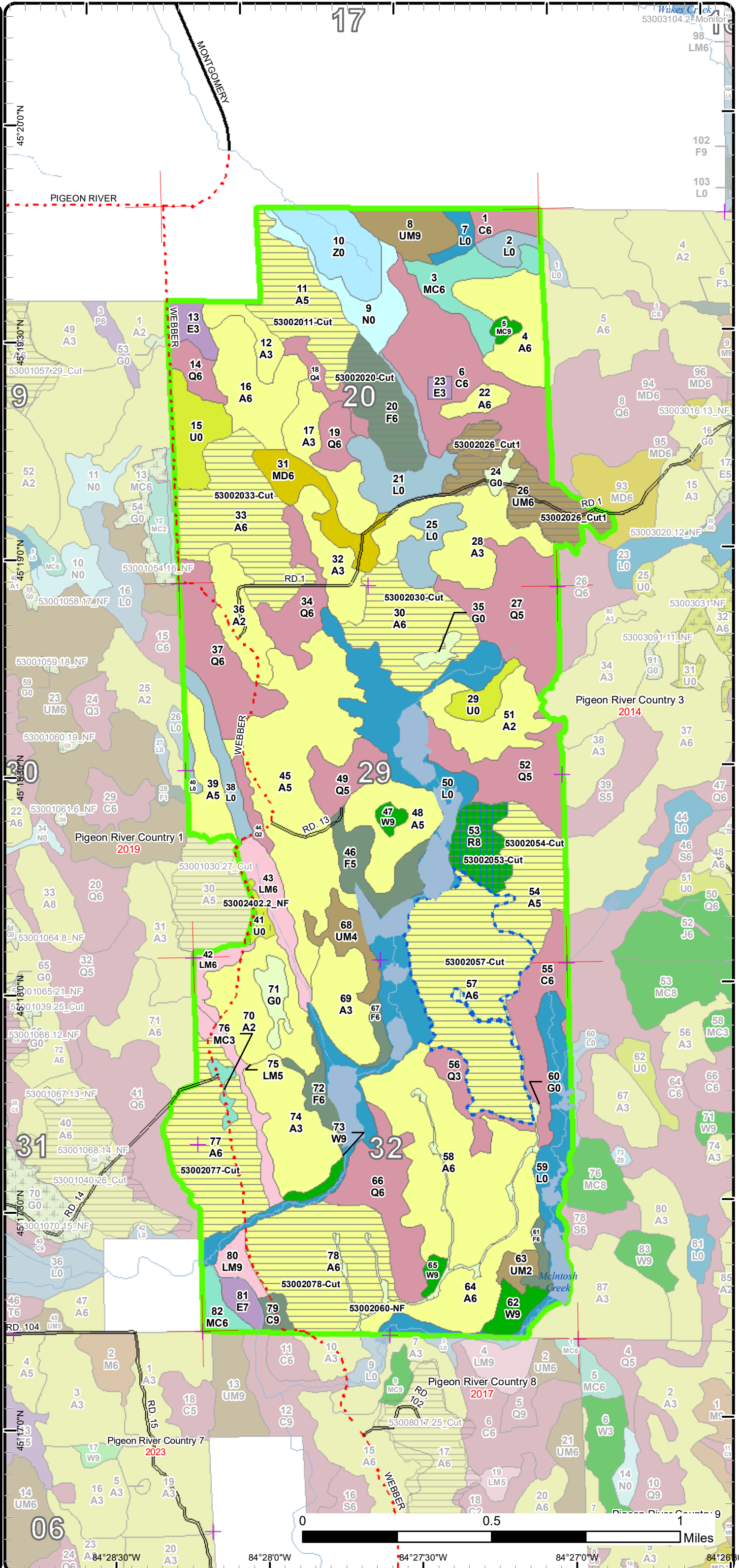
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	56	0	170	6	114	575	0	0	0	0	0	0	0	0	0	0	0	921
Cedar	0	0	0	0	0	0	0	0	0	0	0	8	5	28	61	0	0	0	101
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Low-Density Trees	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	43	50	0	21	112	0	0	0	0	0	0	0	226
Lowland Deciduous	0	0	0	9	2	0	0	0	0	7	0	0	0	0	0	0	0	0	16
Lowland Mixed Forest	0	0	0	0	0	7	26	0	7	0	0	0	0	0	0	0	0	0	40
Lowland Shrub	212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	212
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	20
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Red Pine	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	18
Upland Conifers	0	0	0	4	0	0	20	0	0	8	0	0	0	0	0	0	0	0	32
Upland Mixed Forest	0	0	5	0	0	0	0	13	0	36	17	0	0	0	0	0	0	0	71
Upland Spruce/Fir	0	0	0	0	0	0	45	12	0	0	4	0	0	0	0	0	0	0	61
Water	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
White Pine	0	0	0	0	0	0	0	0	0	3	11	0	0	0	0	0	3	0	17
Total	314	56	5	183	8	114	710	101	0	102	144	8	5	28	61	0	3	0	1839

Cover Type & Treatments Map

Compartment: 2
 T34N, R01W, Sec. 20, 29, 32
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2022
 Acres: 1840 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 3/1/2021
 Map Phase: Post-Review



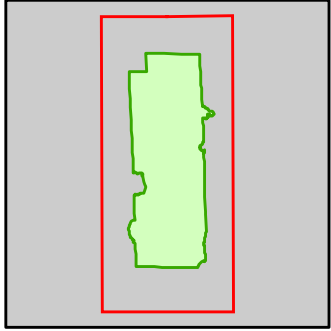
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- Intermittent Pond
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Opening Maintenance
- 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
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland



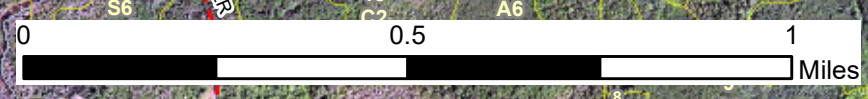
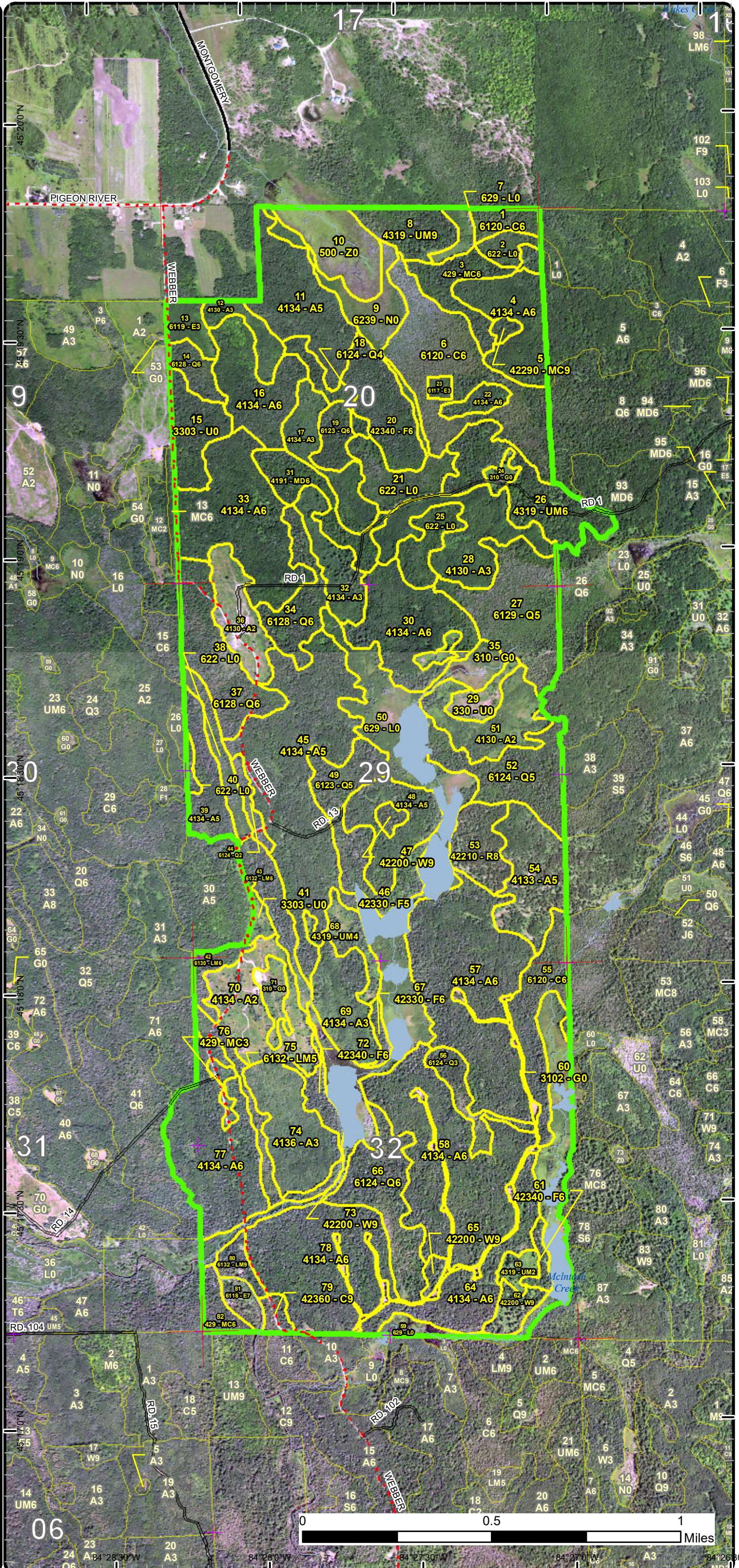
0 0.5 1 Miles
 84°28'0"W 84°27'30"W 84°27'0"W 84°26'30"W

Stand Boundary Map

Compartment: 2
 T34N, R01W, Sec. 20, 29, 32
 County: Cheboygan
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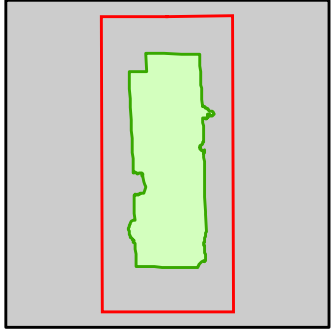
- Miris Corners
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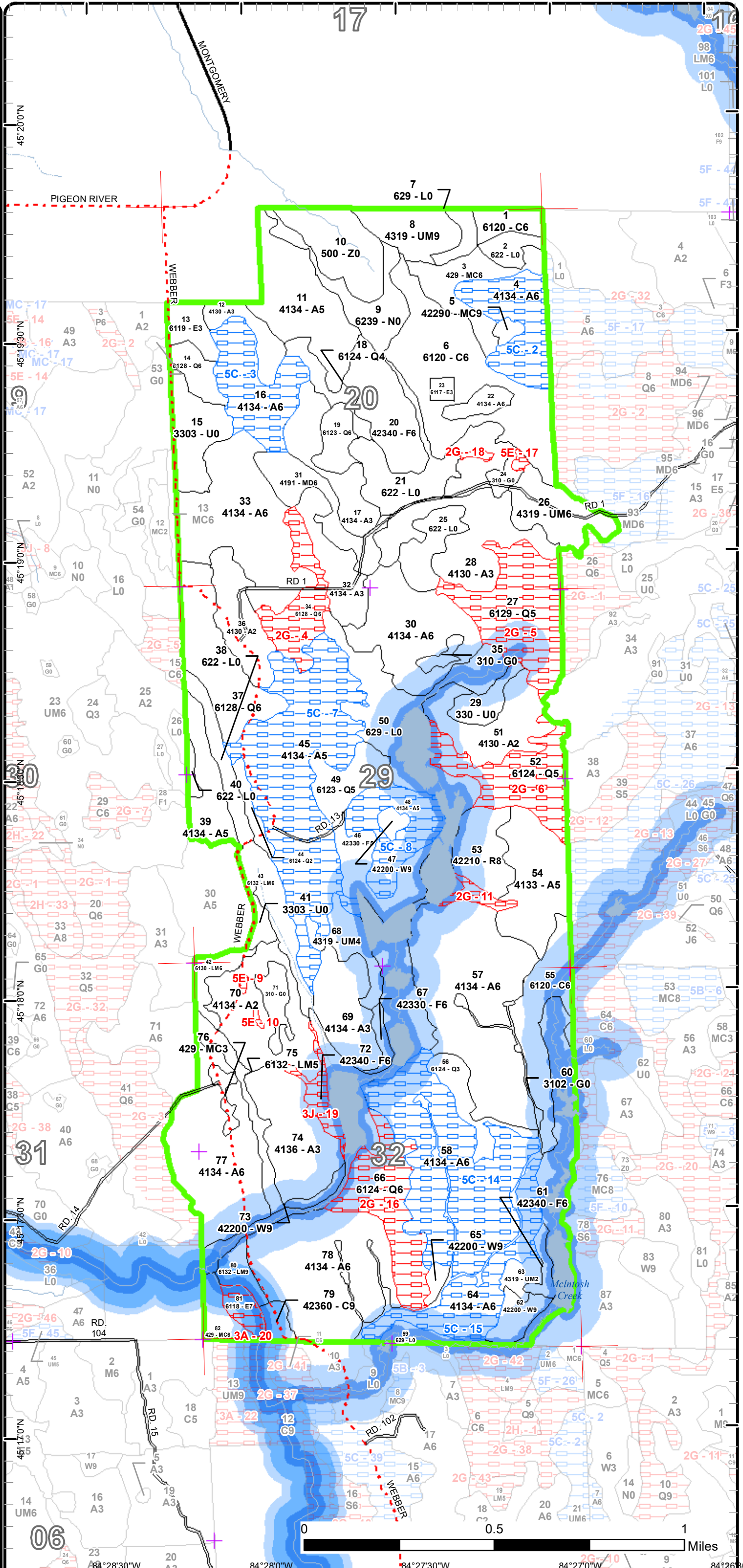
06 23 20 24 A84°28'30"W 84°26'0"W 84°27'30"W 84°27'0"W 84°26'30"W

Special Conservation Areas

Compartment: 2
 T34N, R01W, Sec. 20, 29, 32
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2022
 Acres: 1840 GIS Calculated
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- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- Intermittent Pond
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer





Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 367
 Harvests with Site Condition - 85
 Next Step Harvest - 119
 Habitat Cut - 119

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	375	0	0	0	0	0	0	0	0	375
Red Pine	0	0	0	18	0	0	0	0	0	18
Upland Mixed Forest	33	0	0	0	0	0	0	0	0	33
Upland Spruce/Fir	26	0	0	0	0	0	0	0	0	26
Total	434	0	0	18	0	0	0	0	0	453

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	453	0	0	0	0	0	0	16	0	468
Next Step	119	0	0	0	0	334	0	0	0	453
Total	572	0	0	0	0	334	0	16	0	921



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

11	53002011-Cut	38.6	4134 - Aspen, Spruce/Fir	Poletimber Medium	51	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with 3-4 retention islands. Add grouse drumming spec. Mark to fall 1-2 per acre of any species to be left for grouse drumming log purposes.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen along with a mix of species meeting a moderate stocking level will be acceptable for regeneration success.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

20	53002020-Cut	26.2	42340 - Upland Spruce/Fir	Poletimber Well	52	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut with 2-3 retention islands left along swamp edges. Combine with stand 11 when setting up the sale.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with mixed conifer meeting a moderate stocking level will be acceptable for regeneration success.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

26	53002026_Cut	32.8	4319 - Mixed Upland Forest	Poletimber Well	88	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut with some retention islands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A fully-stocked stand with any combination of species will be acceptable in determining regeneration success.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand selected as part of Spruce Budworm salvage efforts.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 2 /9 /2017</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
30 53002030-Cut	42.1	4134 - Aspen, Spruce/Fir	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with 2-3 retention islands. Add grouse drumming log spec. Mark 1-2 trees per acre to fall and leave as grouse drumming logs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with a mix of species meeting a moderate stocking level will be acceptable for regeneration success.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
33 53002033-Cut	57.8	4134 - Aspen, Spruce/Fir	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut with 2-3 retention pockets near the edges of the stand. Mark several larger diameter trees to cut and leave for Grouse drumming logs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with a mix of other species with a minimum of medium stocking levels will be acceptable in determining regeneration success.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
53 53002053-Cut	18.2	42210 - Natural Red Pine	Sawtimber Medium	81	51-80	Harvest	Seed Tree with Retention	42211 - Natural Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees, leaving 10-30BA of mostly Red Pine with some White Pine, if possible, scattered throughout the stand as seed trees. Leave a couple retention islands along the edge of the creek bottom. Tree length skidding should be encouraged to promote natural red pine regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A moderate stocking of Red Pine along with a mix of other species will be acceptable in determining regeneration success.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
54 53002054-Cut	32.7	4133 - Aspen, Mixed Pine	Poletimber Medium	50	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with 2-3 retention islands of representative species. Some mature pine should be left as seed trees</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen along with a mix of species meeting a moderate stocking level will be acceptable in determining regeneration success.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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57	53002057-Cut	85.2	4134 - Aspen, Spruce/Fir	Poletimber Well	50	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with 4-5 retention islands scattered along the perimeter of the sale. Add the grouse drumming log spec. Mark to fall 1-2 larger diameter trees of any species per acre.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen along with a mix of species meeting a moderate stocking level will be acceptable for regeneration success.

Regen:

Other

Comment:

Site Condition Too Wet

Proposed Start Date: 10/1 /2021

60	53002060-NF	11.5	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	31022 - Warm Season Grass		No
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Prescription See wildlife prescription.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

77	53002077-Cut	54.1	4134 - Aspen, Spruce/Fir	Poletimber Well	49	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clear cut with 2-3 retention pockets along edges of the stand. Mark several larger diameter trees to cut and leave for Grouse drumming logs.

Specs:

Next Step Harvest, Clearcut with Retention

Treatments:

Acceptable Aspen with a mix of other species with a minimum of medium stocking levels will be acceptable in determining regeneration success.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

78	53002078-Cut	64.9	4134 - Aspen, Spruce/Fir	Poletimber Well	50	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clear cut with 2-3 retention pockets near the edges of the stand. Mark several larger diameter trees to cut and leave for Grouse drumming logs.

Specs:

Next Step Harvest, Clearcut with Retention

Treatments:

Acceptable Aspen with a mix of other species with a minimum of medium stocking levels will be acceptable in determining regeneration success.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
41 53002402.2_N F	4.0	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Stand has been selected for shearing for woodcock habitat as part of the 2018 Wildlife Habitat Grant through Huron Pines. Stand was approved through treatment through the Chapter 7 variance procedure.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 468.1
Acreage Proposed:

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 2
Year of Entry: 2022

Richard McDonald: Examiner

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions				
		With Condition				5C	2G	3A	3J	5E
920	619	296		5	Aspen	296	4			1
101	101	0		0	Cedar					0
26	26	0		0	Herbaceous Openland					
32	32	0		0	Low-Density Trees					
226	93	0		133	Lowland Conifers		133			
17	11	0		6	Lowland Deciduous			6		
40	40	0		0	Lowland Mixed Forest					
212	212	0		0	Lowland Shrub		0			
19	19	0		0	Marsh					
20	20	0		0	Mixed Upland Deciduous					
2	2	0		0	Natural Mixed Pines					
18	18	0		0	Red Pine					
31	31	0		0	Upland Conifers					
71	69	0		2	Upland Mixed Forest		1			1
61	53	0		8	Upland Spruce/Fir				8	
25	25	0		0	Water					
17	17	0		0	White Pine					
1,840	1,389	296		155	Total Forested Acres	296	139	6	8	2
	75%	16%		8%	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
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Part of a larger stand in compartment to be managed in 2024. Delay treatment until that time and then change compartment boundary to incorporate this stand in with stand 5 of comp. 3.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 2

Richard McDonald : Examiner

Year of Entry: 2022

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	96	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 2

Richard McDonald : Examiner

Year of Entry: 2022

9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	82	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 2

Richard McDonald : Examiner

Year of Entry: 2022

17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Wet drainage with wetland indicator species. Overstory trees are present, mostly red maple, so this could be considered retention as well for the surrounding harvest.							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3A: Conservation Values incompatible with harvest at this time	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Pigeon River floodplain part of Natural River corridor.							

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
1	6120 - Lowland Cedar	Poletimber Well	7.9	101	141-170	N/A																																																				
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2	622 - Lowland Shrub	Nonstocked	6.5		Unspecified	No																																																				
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3	429 - Mixed Upland Conifers	Poletimber Well	19.7	52	81-110	N/A	Transition stand between Aspen and lowland. Cut this stand with stand 4 when it is merged with compartment 3 and cut in 2024.																																																			
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4	4134 - Aspen, Spruce/Fir	Poletimber Well	28.5	52	81-110	N/A	Emerging into nice pole stand. Part of larger stand of nice Aspen in Compartment 3 to the east. Manage with that stand. Compartment 3 has a YOE of 2024, so only need to wait a couple of years. The only access is through compartment 3, so all that aspen can be managed together. Use start date of 10/01/2023. Merge this stand with stand 5 in comp. 3 when redoing that inventory.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
5	42290 - Natural Mixed Pine	Sawtimber Well	2.4	81	81-110	N/A	Small pocket of pine left behind from last cutting. This stand can be treated with stand 4 when it's cut.																																															
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6	6120 - Lowland Cedar	Poletimber Well	61.3	133	111-140	N/A	Wet swamp. North edge near beaver marsh is dying off due to higher wate.																																															
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7	629 - Mixed non-forested wetland	Nonstocked	5.2		Unspecified	No	Old beaver marsh																																															
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8	4319 - Mixed Upland Forest	Sawtimber Well	17.4	98	81-110	N/A	No access to this stand. Surrounded by wetlands and private on the north side. Treat as a long-term retention stand.																																															
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9	6239 - Mixed Emergent Wetland	Nonstocked	19.0		Unspecified	No	Back end of Beaver flooding. Stand contains Heron rookery.																																															
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10	500 - Water	Nonstocked	25.4		Unspecified	No	Beaver Pond																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	4134 - Aspen, Spruce/Fir	Poletimber Medium	38.6	51	51-80	N/A	Stand is variable, Aspen is sparse in certain areas of the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		50	Pole	8	51	Balsam Fir	
Red Maple		10	Pole/Sapling	7	51	Red Maple	
Balsam Fir		30	Pole	8	51		
White Spruce		7	Pole/Sapling	6			
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						Density	Avg. Height
							Size
12	4130 - Aspen	Sapling Well	10.2	27	Immature	N/A	East half of clearcut that is growing back with aspen. West half (stand 13) is more wet and has a heavy component of Willow in the understory..
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		80	Sapling	3	27	Balsam Fir	
Paper Birch		5	Sapling	2	27	Red Maple	
Red Maple		5	Sapling	3	27		
Balsam Fir		10	Sapling	3			
						Density	Avg. Height
							Size
13	6119 - Mixed Lowland Deciduous Forest	Sapling Well	8.5	27	Immature	N/A	This stand was cut with stand 12 in 1994. Very wet stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		10	Sapling	2	27	Willow spp.	
Paper Birch		25	Sapling	2	27	Red Maple	
Black Ash		30	Sapling	2	27		
Willow spp.		20	Sapling	1			
Balsam Poplar		15	Sapling	2			
						Density	Avg. Height
							Size
14	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	8.7	56	51-80	N/A	OI Stand Year Origin was 1965
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		30	Log/Pole	12	56	Black Ash	
Balsam Fir		30	Pole	8		Willow spp.	
White Pine		20	Log/Pole	10	56	Balsam Fir	
Northern White Cedar		20	Pole	8		Paper Birch	
						Northern White Cedar	
						Density	Avg. Height
							Size
15	3303 - Mixed Low Density Trees	Nonstocked	19.9	0	Unspecified	4130 - Aspen	Poor regeneration success. Not sure what the issue is except for wet ground in some areas.
16	4134 - Aspen, Spruce/Fir	Poletimber Well	31.4	51	51-80	N/A	OI Stand Year Origin was 1970
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		50	Pole	8	51	Balsam Fir	
Balsam Fir		30	Pole/Sapling	7	51	Red Maple	
Red Maple		10	Pole	8	51		
White Pine		7	Pole/Sapling	7			
Paper Birch		3	Pole	8			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
17	4134 - Aspen, Spruce/Fir	Sapling Well	20.6	28	Immature	N/A	Cut in 1993. South 1/2 regenerated well but the north end is rather sparse, mostly conifer.																																											
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18	6124 - Lowland Spruce-Fir	Poletimber Poor	8.3	51	1-50	N/A	Stand Year Origin was 1970 with most of the surrounding stands. Low, wet area regenerated sparsely.																																											
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19	6123 - Lowland Fir	Poletimber Well	9.2	52	51-80	N/A	Stand Year Origin was 1969.																																											
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22	4134 - Aspen, Spruce/Fir	Poletimber Well	5.9	39	1-50	N/A	Stand Year Origin was 1982. High ground surrounded by cedar swamp. It could be cut when stand 4 is cut.																																																				
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23	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	2.4	39	1-50	N/A	Stand Year Origin was 1982. Old winter deer cut.																																																				
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24	310 - Herbaceous Openland	Nonstocked	3.4		Unspecified	No	Natural opening																																																				
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26	4319 - Mixed Upland Forest	Poletimber Well	36.0	88	81-110	N/A	2-3 uncut islands for retention along with some individual trees. Any combination of species will be acceptable as a measure of regeneration success. 2014 Stand has not been prepped or sold as of yet. "Forgotten Fir SBW" (53-025-18) did not sell the first time but is being bid a second time this week.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 44.9 93 1-50 N/A Stand Year Origin was 1928. Wet swamp.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	45	Pole	9	93	Black Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	15	Pole	8	93	Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Spruce	5	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	20	Pole	8	93				
Tamarack	15	Pole	8					

28 4130 - Aspen Sapling Well 36.3 27 Immature N/A Stand Year Origin was 1994

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	65	Sapling	2	27	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	10	Sapling	2	27	Willow spp.	Low	5 - 10 feet	Tall Shrub
Red Maple	10	Sapling	2	27	Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	15	Sapling	2	27	Red Maple	Low	5 - 10 feet	Sapling

29 330 - Low-Density Trees Nonstocked 8.1 0 Unspecified No Stand Year Origin was 1994. Portion of stand 52 that was heavily browsed after stand was cut and wiped out regeneration in this area.

Sub-Canopy Species	Density	Avg. Height	Size
Mixes Sedges/Grasses	High	Unspecified	Non-Wood
Bracken Fern	Medium	Unspecified	Non-Wood
Bigtooth Aspen	Low	< 5 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling

30 4134 - Aspen, Spruce/Fir Poletimber Well 42.1 47 51-80 N/A Stand Year Origin was 1974

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	45	Pole/Sapling	7	47	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	30	Pole/Sapling	6	47	White Pine	Low	10 - 20 feet	Sapling
Red Maple	15	Pole/Sapling	6					
White Pine	5	Pole/Sapling	7					
Paper Birch	5	Pole/Sapling	7					

31 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 19.5 53 81-110 N/A OI Stand Year Origin was 1968

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole	9	53	Ironwood	Low	10 - 20 feet	Sapling
White Pine	5	Log/Pole	16		Balsam Fir	Low	10 - 20 feet	Sapling
Basswood	5	Log/Pole	10		Beech	Low	10 - 20 feet	Sapling
Paper Birch	15	Log/Pole	10	53				
Balsam Fir	25	Pole	9	53				
Sugar Maple	10	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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32 4134 - Aspen, Spruce/Fir Sapling Well 18.4 28 Immature N/A Stand Year Origin was 1993

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	55	Sapling	2	28	Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	25	Sapling	2	28	Red Maple	Low	5 - 10 feet	Sapling
White Pine	10	Sapling	4		White Pine	Low	5 - 10 feet	Sapling
Red Maple	10	Sapling	2					

33 4134 - Aspen, Spruce/Fir Poletimber Well 57.8 51 51-80 N/A OI Stand Year Origin was 1970. Part of larger stand(16) that was split off to treat and stay closer to the 40 acre guideline in the Concept of Management.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole	8	51	Balsam Fir	High	10 - 20 feet	Sapling
Balsam Fir	30	Pole/Sapling	7	51	Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	10	Pole	8	51				
White Pine	7	Pole/Sapling	7					
Paper Birch	3	Pole	8					

34 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 20.8 81 81-110 N/A Stand is full of springs that feed a small stream flowing into Nelson Cr.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	40	Log/Pole	9	81	Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	20	Log/Pole	10		Red Maple	Low	10 - 20 feet	Sapling
Red Maple	10	Pole	9		Northern White Cedar	Low	10 - 20 feet	Sapling
Balsam Fir	25	Pole	8					
White Spruce	5	Log/Pole	12					

35 310 - Herbaceous Openland Nonstocked 3.1 Unspecified No Site of old Babcock Mill. Starting to fill in.

Sub-Canopy Species	Density	Avg. Height	Size
Mixes Sedges/Grasses	High	Unspecified	Non-Wood
Bracken Fern	Medium	Unspecified	Non-Wood

36 4130 - Aspen Sapling Medium 21.2 3 Immature N/A "Road One and Done" aspen sale (53-003-12-01) cut in 2017.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	90	Sapling	1	3
Red Maple	10	Sapling	1	3



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 34.7 61 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	40	Log/Pole	10	61	Balsam Fir	Medium	>20 feet	Sapling
Balsam Fir	15	Pole	8	61	Northern White Cedar	Medium	>20 feet	Sapling
White Spruce	5	Log/Pole	12	61				
Quaking Aspen	20	Log/Pole	10	61				
Red Pine	5	Log/Pole	14					
White Pine	5	Log	16					
Red Maple	10	Pole	9					

38 622 - Lowland Shrub Nonstocked 11.4 Unspecified No Creek flowing through

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	5 - 10 feet	Tall Shrub
Willow spp.	Medium	5 - 10 feet	Tall Shrub

39 4134 - Aspen, Spruce/Fir Poletimber Medium 17.5 43 1-50 N/A Stand Year Origin was 1978. Part of a larger stand to the west in compartment 1.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	65	Pole/Sapling	6	43	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	20	Pole/Sapling	6	43	Red Maple	Low	10 - 20 feet	Sapling
White Spruce	5	Log/Pole	10					
Red Maple	10	Pole/Sapling	6					

40 622 - Lowland Shrub Nonstocked 2.3 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Willow spp.	Low	5 - 10 feet	Tall Shrub

41 3303 - Mixed Low Density Trees Nonstocked 4.0 Unspecified No Natural opening along road gradually filling in with trees..

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	High	Unspecified	Non-Wood
Bracken Fern	Medium	Unspecified	Non-Wood
Balsam Fir	Low	5 - 10 feet	Sapling
White Spruce	Low	10 - 20 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
42	6130 - Fir, Aspen, Maple	Poletimber Well	7.4	56	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		50	Pole	8	56	Balsam Fir	Density
Quaking Aspen		25	Pole	9	56	Medium	Avg. Height
White Spruce		5	Log/Pole	10		10 - 20 feet	Size
Red Maple		15	Pole	8		Sapling	
Paper Birch		5	Pole	9			
43	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	15.4	64	51-80	N/A	Wet drainage flowing into Nelson Cr.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		40	Pole	8	64	Balsam Fir	Density
Quaking Aspen		30	Log/Pole	10	64	Low	Avg. Height
Paper Birch		10	Log/Pole	10		10 - 20 feet	Size
White Spruce		5	Log/Pole	10		Sapling	
Balsam Fir		10	Pole	8			
Red Maple		5	Pole/Sapling	8			
44	6124 - Lowland Spruce-Fir	Sapling Medium	5.1	50	Unspecified	N/A	Stand Year Origin was 1971
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		5	Sapling	3	50	Black Spruce	Density
Black Spruce		45	Sapling	3	50	Low	Avg. Height
Balsam Fir		35	Sapling/Pole	4	50	5 - 10 feet	Size
Northern White Cedar		10	Pole/Sapling	7		Sapling	
Quaking Aspen		5	Pole/Sapling	6			
45	4134 - Aspen, Spruce/Fir	Poletimber Medium	95.8	51	51-80	N/A	Stand Year Origin was 1970. Quite underdeveloped size-wise for the age of the stand. Recommend waiting one more rotation.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		45	Pole/Sapling	6	51	Balsam Fir	Density
Bigtooth Aspen		20	Pole/Sapling	7	51	Medium	Avg. Height
Balsam Fir		15	Pole/Sapling	6	51	10 - 20 feet	Size
Red Maple		15	Pole/Sapling	5		Sapling	
White Spruce		5	Pole/Sapling	7			
46	42330 - Upland Fir	Poletimber Medium	18.6	50	1-50	N/A	This stand along Nelson Creek had the aspen removed by beavers inhabiting the creek drainage. Maintain these conifer strips along these drainages
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		70	Pole	9	50	Balsam Fir	Density
White Spruce		10	Log/Pole	12	50	Low	Avg. Height
White Pine		15	Log/Pole	10		5 - 10 feet	Size
Paper Birch		3	Log/Pole	10		Sapling	
Red Maple		2	Pole	8			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	42200 - Natural White Pine	Sawtimber Well	3.0	83	51-80	N/A	Stand Year Origin was 1938
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		60	Log/Pole	15	83	Balsam Fir	
Red Pine		30	Log/Pole	10		White Pine	
Quaking Aspen		5	Log/Pole	10		Density	
Red Maple		5	Pole	8		Avg. Height	
						Size	
48	4134 - Aspen, Spruce/Fir	Poletimber Medium	25.7	50	51-80	N/A	Stand Year Origin was 1971
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		60	Pole/Sapling	8	50	Balsam Fir	
Balsam Fir		25	Pole/Sapling	8		Red Maple	
Red Maple		10	Pole/Sapling	8		Density	
White Pine		5	Pole/Sapling	8		Avg. Height	
						Size	
49	6123 - Lowland Fir	Poletimber Medium	15.2	65	1-50	N/A	Wet swamp
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		50	Pole/Sapling	8	65	Balsam Fir	
Northern White Cedar		10	Pole/Sapling	8		Red Maple	
White Spruce		15	Log/Pole	10		Density	
Quaking Aspen		15	Pole	9		Avg. Height	
Balsam Poplar		10	Pole	8		Size	
50	629 - Mixed non-forested wetland	Nonstocked	111.4		Unspecified	No	Nelson Creek floodplain. A long history of Beaver activity influences constantly changing vegetation types throughout the floodplain.
51	4130 - Aspen	Sapling Medium	26.4	27	Immature	N/A	Stand Year Origin was 1994. Stand was heavily browsed after harvest. Stand 29 (u type) was created from the portion of this stand that was most heavily impacted.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		80	Sapling	2	27	Balsam Fir	
Red Maple		10	Sapling	2		Red Maple	
White Pine		5	Sapling	2		Density	
Balsam Fir		5	Sapling	2		Avg. Height	
						Size	
52	6124 - Lowland Spruce-Fir	Poletimber Medium	33.5	93	1-50	N/A	Stand is sparse and poor quality. Wet
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		40	Pole	8	93	Balsam Fir	
Black Spruce		20	Pole/Sapling	8	93	Black Spruce	
Northern White Cedar		20	Pole	8		Density	
Red Maple		5	Pole/Sapling	8		Avg. Height	
Paper Birch		5	Pole/Sapling	8		Size	
Quaking Aspen		10	Pole	9			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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53 42210 - Natural Red Pine Sawtimber Medium 18.2 81 51-80 N/A OPIC - FMD: OI Stand Year Origin was 1940

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	80	Log/Pole	16	81	Red Pine	Low	5 - 10 feet	Sapling
White Pine	10	Log	16	81	White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	5	Pole	9		Balsam Fir	Low	5 - 10 feet	Sapling
Red Maple	5	Pole	8					

54 4133 - Aspen, Mixed Pine Poletimber Medium 32.7 50 1-50 N/A Scattered clones of Aspen and Red Pine thru otherwise grassy rolling hills that extends to the east into Compartment 3.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	25	Log/Pole	15	81	White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	60	Pole	8	50	Red Maple	Low	5 - 10 feet	Sapling
Red Maple	15	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling

55 6120 - Lowland Cedar Poletimber Well 27.7 121 81-110 N/A Stand Year Origin was 1900. Part of larger swamp complex that feeds McIntosh Creek. Wet swamp.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	70	Pole/Sapling	8	121	Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	10	Pole/Sapling	8					
White Spruce	5	Log/Pole	12					
Balsam Fir	10	Pole	9					
Tamarack	5	Pole	8					

56 6124 - Lowland Spruce-Fir Sapling Well 11.8 50 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	40	Sapling/Pole	4	50	Balsam Fir	Medium	10 - 20 feet	Sapling
Northern White Cedar	20	Pole/Sapling	6	50	Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	10	Sapling/Pole	4		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	5	Sapling	3					
Quaking Aspen	20	Pole/Sapling	6	50				
Paper Birch	5	Sapling	3					

57 4134 - Aspen, Spruce/Fir Poletimber Well 85.2 50 51-80 N/A Size class is highly variable throughout the stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole	8	50	Balsam Fir	High	10 - 20 feet	Sapling
Balsam Fir	30	Pole/Sapling	8	50	Red Maple	Low	10 - 20 feet	Sapling
Red Maple	12	Pole/Sapling	7					
White Spruce	5	Pole/Sapling	7					
Paper Birch	3	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
58	4134 - Aspen, Spruce/Fir	Poletimber Well	81.9	50	51-80	N/A	Size class is highly variable throughout the stand																																									
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59	629 - Mixed non-forested wetland	Nonstocked	40.9		Unspecified	No	McIntosh Creek floodplain periodically flooded by beavers																																									
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60	3102 - Grass	Nonstocked	11.5		Unspecified	Managed Opening	Old logging road system that has been treated in the past by wildlife for a "grouse walk".																																									
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61	42340 - Upland Spruce/Fir	Poletimber Well	4.3	91	51-80	N/A	Stand Year Origin was 1930. Aspen removed by beavers throughout the years. Steep hillside leading to creek bottom makes this stand impractical to cut.																																									
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62	42200 - Natural White Pine	Sawtimber Well	8.3	90	51-80	N/A	Stand was thinned in 2003 along with stand 63 (McIntosh Bluffs)																																									
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63	4319 - Mixed Upland Forest	Sapling Medium	5.3	18	Immature	N/A	Stand was cut in 2003. Significant browse damage to regeneration.																																									
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64	4134 - Aspen, Spruce/Fir	Poletimber Well	32.6	50	51-80	N/A	Stand Year Origin was 1971. Surrounding stands were developed into a gouse walk management area and that management is to be continued.																																															
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66	6124 - Lowland Spruce-Fir	Poletimber Well	34.0	99	51-80	N/A	Complex, wet stand not entered when surrounding area was cut. Active deer yarding area.																																															
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67	42330 - Upland Fir	Poletimber Well	3.5	61	51-80	N/A	OI Stand Year Origin was 1960. Narrow strip of conifer along Nelson Creek.																																															
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68	4319 - Mixed Upland Forest	Poletimber Poor	12.6	64	1-50	N/A																																																
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69	4134 - Aspen, Spruce/Fir	Sapling Well	24.6	28	Immature	N/A	Stand Year Origin was 1993																																														
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70	4134 - Aspen, Spruce/Fir	Sapling Medium	34.3	7	Immature	N/A	09/01/2015 - Stand cut in fall of 2014, Alley-oop Aspen, whole-tree harvest by Tulgetska. Rutting issues around the main landing, which was east of the northern retention pocket. Landing and some of the ruts were cleaned up, but not all. Expect regen issues in these areas due to the clay soils and compaction. Fortunately the rutting issues were confined almost exclusively to around the landing, the remainder of the sale area is in good shape. Browsing already noticeable on first year stems, particularly birch, aspen, and red maple sprouts. This looks like it may be an issue.																																														
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71	310 - Herbaceous Openland	Nonstocked	7.8		Unspecified	No	Natural opening surrounded by new clearcut. Expect some regeneration encroachment.																																														
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72	42340 - Upland Spruce/Fir	Poletimber Well	8.1	61	51-80	N/A																																															
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73	42200 - Natural White Pine	Sawtimber Well	2.9	176	51-80	N/A	Stand Year Origin was 1845. Strip of old Pine left as Old Growth along creek bottom.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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74 4136 - Aspen, Mixed Conifer Sapling Well 33.7 28 Immature N/A Stand Year Origin was 1993

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	60	Sapling	3	28	Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	15	Sapling	3	28	Red Maple	Low	5 - 10 feet	Sapling
White Pine	10	Sapling	3					
Red Maple	12	Sapling	3					
Paper Birch	3	Sapling	3					

75 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 10.9 68 51-80 N/A Narrow drainage into Nelson Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	25	Pole	9	68	Balsam Fir	Low	10 - 20 feet	Sapling
White Spruce	5	Log/Pole	12	68	Red Maple	Low	10 - 20 feet	Sapling
Northern White Cedar	20	Log/Pole	10	68	Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole	9					
Quaking Aspen	30	Log/Pole	10	68				
Red Maple	10	Pole	8	68				

76 429 - Mixed Upland Conifers Sapling Well 3.5 26 Immature N/A Old opening filling in with fir, pine, aspen, etc.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	45	Sapling	3	26	Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	20	Sapling	3	26	Balsam Poplar	Low	5 - 10 feet	Sapling
White Spruce	3	Sapling	3	26				
Black Cherry	5	Sapling	1					
Paper Birch	7	Sapling	2					
Quaking Aspen	15	Sapling	3	26				
Balsam Poplar	5	Sapling	1					

77 4134 - Aspen, Spruce/Fir Poletimber Well 54.1 49 1-50 N/A Stand Year Origin was 1972

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Log/Pole	10	49	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	25	Pole/Sapling	7	49	Red Maple	Low	10 - 20 feet	Sapling
Red Maple	15	Pole/Sapling	7					
White Spruce	3	Log/Pole	11					
Paper Birch	7	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
78	4134 - Aspen, Spruce/Fir	Poletimber Well	64.9	50	51-80	N/A	Stand Year Origin was 1971. Part of larger stand complex that was all cut at the same time. Stands surrounding the grouse walk area behind the gate will be treated at varying times in the future.																																											
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79	42360 - Upland Cedar	Sawtimber Well	4.5	115	81-110	N/A	Stand Year Origin was 1906. Upland cedar that straddles the road and drops off to the Pigeon River																																											
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80	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	6.6	86	81-110	N/A	McIntosh Landing and surrounding area to be protected for it's recreational use, but also because it lies within the Natural River zone.																																											
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81	6118 - Lowland Deciduous with Cedar	Sawtimber Poor	6.5	86	1-50	N/A	Pigeon River floodplain																																											
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82	429 - Mixed Upland Conifers	Poletimber Well	7.9	83	81-110	N/A	Stand Year Origin was 1938. Isolated stand on opposite side of Pigeon River between the river and privage property. Difficult access. More practical to cut when another stand in an adjacent compartment is cut.																																											
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