



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53014

Entry Year 2025

Acreage: 1,858

County Cheboygan

Management Area: Wolverine Moraines

Stand Examiner: Greg Rekowski

Legal Description:

T33N 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:

Flat to gently rolling terrain. Predominantly sand and sandy loam soil types throughout the Compartment of varying names and associations. Cheboygan loamy sands are the most frequent, followed by Blue Lakes loamy sands and Kalkaska sands. Onaway loams can be found in Section 20. Lowland areas are a mix of peat and muck types.

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

Solid State ownership throughout and adjacent to the Compartment.

Unique Natural Features:

Red-shouldered hawks and wood turtles are known to occur in this Compartment. The little brown bat has the potential to occur in Section 32.

Archeological, Historical, and Cultural Features:

No known features.

Special Management Designations or Considerations:

Stand 2 is part of a larger Special Conservation Area (SCA) that extends west into Compartment 13 and is known as the Grindstone Creek Hardwood Natural Area. This Special Conservation Area has been classified as a Dedicated Habitat Area (DHA), subset Forest Habitat Core Interior. It has also been nominated for Type 1 or 2 Old Growth, which is another SCA sub-classification.

Watershed and Fisheries Considerations:

Grindstone Creek and Bird Tally Creek, both identified as coldwater streams, flow through this Compartment, eventually joining with the Pigeon River to the east. Both of these creeks are also included as part of the Natural Rivers Zoning District, due to their importance as tributaries to the Pigeon River. Numerous other small streams, most seasonal in nature, are present throughout the Compartment.

Wildlife Habitat Considerations:

A Wildlife representative will be available for comment at the Open House and Compartment Review.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the State. No current mineral activity exists within several miles of the Compartment. Potential for sand & gravel exists in the Compartment, but commercial development is not allowed per the PRC Oil and Gas Policy and Concept of Management. The Compartment is on the north edge of the Antrim Shale gas play. The Antrim Shale is thinning to the north and may have limited potential for gas production in this area. The Silurian reef trend lies just to the southeast. There is low probability of reef reservoirs occurring beneath the Compartment, but without access to industry seismic data, the potential can't be ruled out. There is no history of drilling within or around the Compartment. State land in the Compartment and surrounding area cannot be utilized for drilling operations, so oil & gas development opportunities are limited. Any decisions on future mineral exploration and development within the Compartment shall be consistent with the Oil and Gas Policy and Concept of Management for the Pigeon River Country.

Vehicle Access:

Access is generally poor with Road 34 being the only open road within the Compartment. Some administrative access roads are closed with locked gates and used by Wildlife Division for opening maintenance.

Survey Needs:

None required.

Recreational Facilities and Opportunities:

The High Country Pathway runs the entire length of the Compartment.

Fire Protection:

Access is poor in case of any fire suppression efforts, although the area is generally at low risk to any wildfire potential.

Additional Compartment Information:**The following reports from the Inventory are attached:**

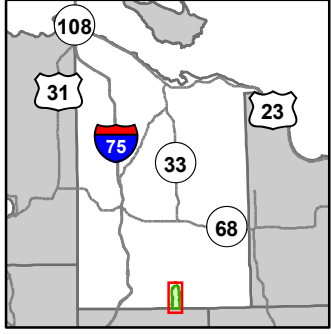
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

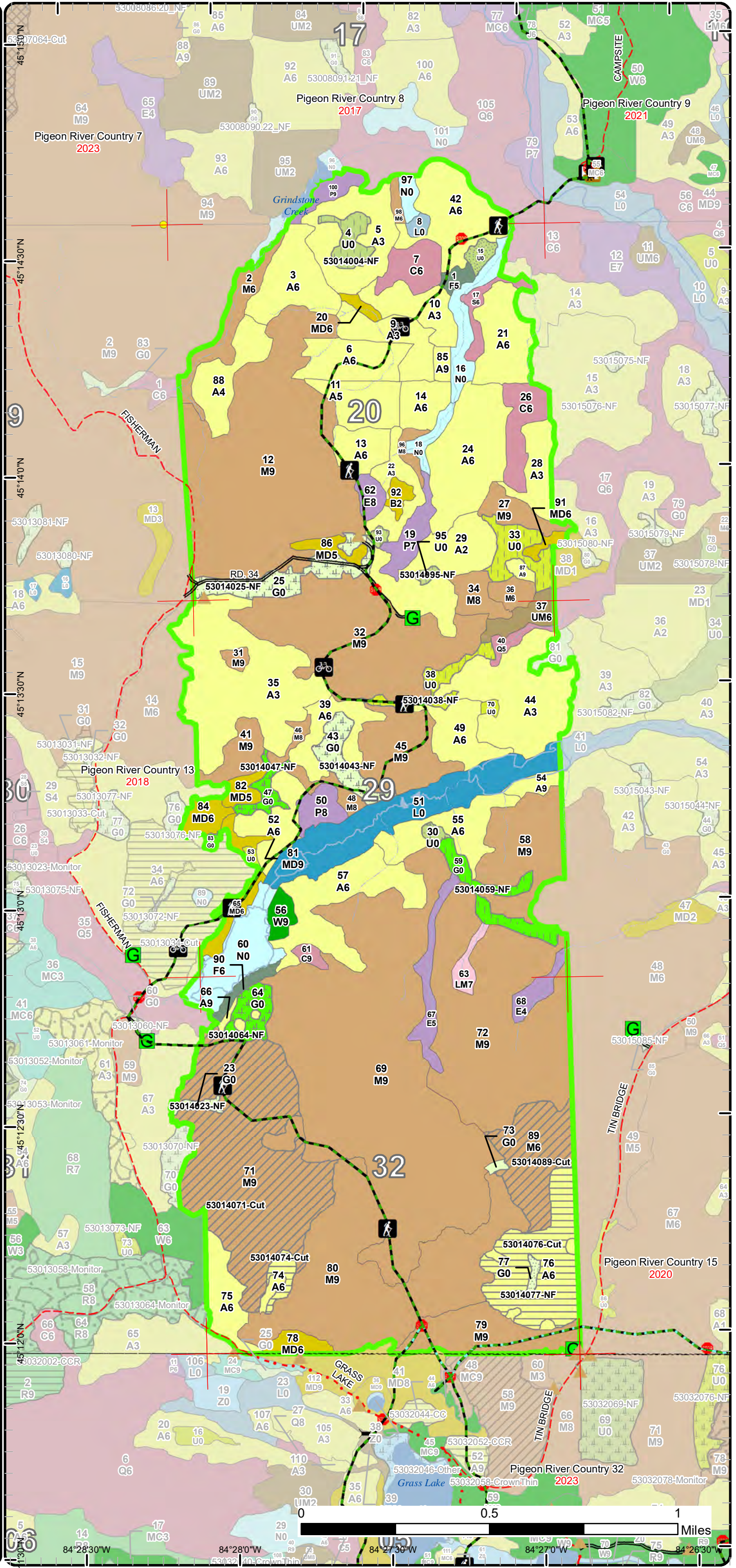
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 14
 T33N, R01W, Sec. 17,20,21,28-30,31,32
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Wolverine Moraines
 YOE: 2025
 Acres: 1858.1 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 6/14/2023
 Map Phase: Review

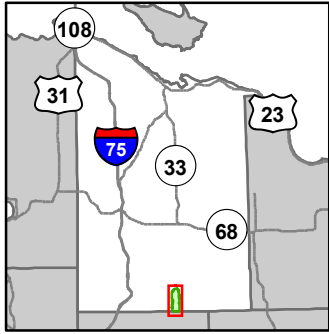


- Miris Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Hiking Trails
- Bike Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Toilet
- Berms
- G Gate
- Bridges
- Campground
- P Parking Lot
- Sign
- Trailhead
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- Mowing
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

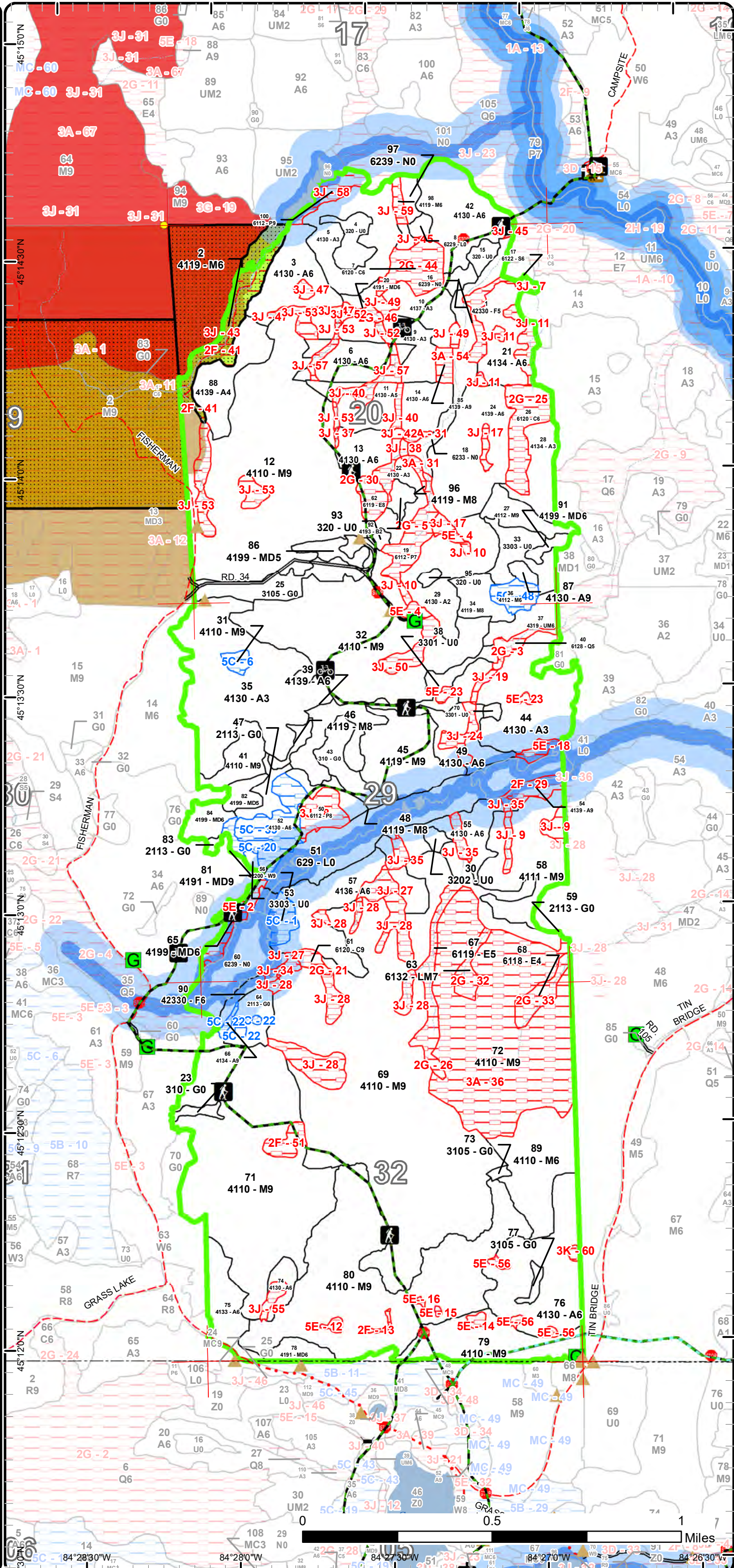


Special Conservation Areas

Compartment: 14
 T33N, R01W, Sec. 17,20,21,28-30,31,32
 County: Cheboygan
 Unit: Pigeon River Country
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- Miris Corners
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Toilet
- Berms
- Gate
- Bridges
- Campground
- Parking Lot
- Sign
- Trailhead
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 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)
- 3K: Rare or unique landforms
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- Cold Water Streams
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer
- Possible Type 2 Old Growth



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	170	0	39	214	130	15	2	7	0	0	0	0	0	0	0	0	0	577
Cedar	0	0	0	0	0	0	0	0	0	0	0	25	2	0	0	0	0	0	26
Cropland	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Herbaceous Openland	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Low-Density Trees	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	9	13	0	0	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	15	0	6	0	0	0	0	0	21
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
Lowland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Marsh	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Mixed Upland Deciduous	0	0	0	6	0	7	18	0	2	3	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	0	0	0	0	0	0	0	5	5	165	637	141	0	0	0	0	0	953
Paper Birch	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Spruce/Fir	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Total	187	170	0	48	229	137	33	2	26	27	185	662	153	0	0	0	0	0	1857



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 191
 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	44	0	0	0	0	0	0	0	0	44
Northern Hardwood	0	0	0	0	0	147	0	0	0	147
Total	44	0	0	0	0	147	0	0	0	191

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	191	0	0	0	0	0	0	0	92	283
Next Step	0	0	0	0	0	0	44	0	0	44
Total	191	0	0	0	0	0	44	0	92	327



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	Habitat Cut
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Proposed Treatments:

4	53014004-NF	7.3	320 - Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	320 - Upland Shrub		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.</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 /2024</p>											
15	53014015-NF	2.9	320 - Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Mowing	320 - Upland Shrub		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.</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 /2024</p>											
23	53014023-NF	2.0	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p>protect trail</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 /2024</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
25 53014025-NF	17.4	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means. Treat the autumn olive.</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 /2024</p>										
30 53014030-NF	1.9	3202 - Autumn Olive/Honeysuckle	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	320 - Upland Shrub		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means. Treat the autumn olive with herbicide. Plant native shrubs.</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 /2024</p>										
33 53014033-NF	11.9	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	320 - Upland Shrub		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.</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 /2024</p>										
38 53014038-NF	7.7	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	320 - Upland Shrub		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.</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 /2024</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
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43	53014043-NF	10.4	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means. Treat the invasive honeysuckle and autumn olive, plant native shrubs to replace them.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

47	53014047-NF	5.2	2113 - Forage Crops	Nonstocked	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

59	53014059-NF	12.1	2113 - Forage Crops	Nonstocked	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means. Spray the autumn olive along the edges.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
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64 53014064-NF 8.4 2113 - Forage Crops Nonstocked Unspec NonForestMgt Other - Specify 310 - Herbaceous Openland No

Prescription Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

71 53014071-Cut 116.3 4110 - Sugar Maple Sawtimber 107 111- Harvest Crown Thinning 411 - Northern Uneven- No
Association Well 140 Hardwood Aged

Prescription Thin to 80-90 square feet. Marking should focus on 14" and smaller trees as these size classes are overstocked. There are several areas of lower BA that will not need to be marked in. Retain current sugar maple/basswood canopy ratio. Cut all beech except for those that are resistant or are good wildlife trees. Leave large diameter trees (>20" DBH) as there are not many in the stand. Do not mark any rare species such as birch, pine, elm, and oak. Place a retention pocket around a pocket of old mature trees which is present in the middle part of the stand, but more towards the southern end.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment: An area of steep slopes has been excluded from the treatment boundary (see site conditions layer).
The High Country Pathway passes through the north half of the stand, use appropriate trail protection specs.

Site Condition

Proposed Start Date: 10/1 /2024

74 53014074-Cut 4.1 4130 - Aspen Poletimber 46 111- Harvest Clearcut 413 - Aspen Even-Aged No
Well 140

Prescription Clearcut. Leave all oak, and any cherry or ash greater than 5" DBH. The treatment boundary excludes a wet area in the middle of the stand that drains south/southwest into a small vernal pool. Mark several cut and leave trees which will serve as drumming log trees.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Fully-stocked stand with any additional mix of species being acceptable.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
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76	53014076-Cut	39.9	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut with area retention. Cut all aspen. Leave as many hardwoods as possible, only removing those that are necessary to operate, with preference of cutting ironwood before any other hardwood species. Do not cut any birch or oak. Scale any hardwoods that have to be cut and add as an amendment to the timber sale. Mark scattered aspen as cut and leave trees for drumming logs. Focus retention areas along the edges, in areas heavier to hardwoods. Exclude the dry sinkhole on the east side with a sizeable buffer (at least 1 chain from the top edge).

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Fully-stocked stand of aspen regeneration with a mix of residual hardwood saplings and poletimber.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

77	53014077-NF	1.8	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

83	53014083-NF	0.9	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
89 53014089-Cut	30.5	4110 - Sugar Maple Association	Poletimber Well	93	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 80-90 square feet. No canopy gaps at this time. Cut all beech except for any trees that are already dead, resistant trees, and large diameter trees that are good wildlife trees. Do not mark any rare species in the stand such as birch or elm. Retain large diameter sugar maple and basswood over 20" DBH.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Use stand 73 for the landing. <u>Comment:</u> Follow the north treatment line as closely as possible; it mirrors the edge of a slope/ridgeline, which becomes more gradual to the west.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
93 53014093-NF	1.3	320 - Upland Shrub	Nonstocked	0	Unspec ified	NonForestMgt	Brush Cutting	320 - Upland Shrub		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										
95 53014095-NF	1.2	320 - Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	320 - Upland Shrub		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment Acreage Proposed: 283.2

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 14

Greg Rekowski : Examiner

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
578	500	17	61
27	0	0	27
27	27	0	0
32	32	0	0
22	22	0	0
22	0	0	22
3	0	0	3
21	0	0	21
4	0	0	4
48	48	0	0
6	0	0	6
42	42	0	0
36	25	3	8
823	642	7	174
3	3	0	0
8	8	0	0
15	15	0	0
7	6	0	1
5	0	5	0
1,728	1,370	32	327
	79%	2%	19%

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions						
					5C	2F	2G	3A	3J	3K	5E
Aspen	578	500	17	61	17	4		3	45	1	8
Cedar	27	0	0	27			27				
Cropland	27	27	0	0							
Herbaceous Openland	32	32	0	0							
Low-Density Trees	22	22	0	0							
Lowland Aspen/Balsam Poplar	22	0	0	22			9		13		
Lowland Conifers	3	0	0	3			3				
Lowland Deciduous	21	0	0	21			21				
Lowland Mixed Forest	4	0	0	4			4				
Lowland Shrub	48	48	0	0							
Lowland Spruce/Fir	6	0	0	6					6		
Marsh	42	42	0	0							
Mixed Upland Deciduous	36	25	3	8	3		1				7
Northern Hardwood	823	642	7	174	7	13		110	49		2
Paper Birch	3	3	0	0							
Upland Mixed Forest	8	8	0	0							
Upland Shrub	15	15	0	0							
Upland Spruce/Fir	7	6	0	1					1		
White Pine	5	0	5	0	5						
Total Forested Acres	1,728	1,370	32	327	32	17	65	113	115	1	16
Relative Percent		79%	2%	19%							

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention areas for the clearcut in stand 29. The northeast retention area is very wet.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream buffer, leave unmanaged.							

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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Drainages in stand 58, also some vernal pools in the eastern site condition.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Drainages that should have been excluded when stand 29 was harvested but they were not. Protect the next time the stand is harvested.							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet areas and drainages in stand 21. These boundaries are not exact and may change.							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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15	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainages in stand 24.							
18	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage that was not protected in the most recent harvest of stand 44 but should be protected in the future.							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention areas for stand 44.							
24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximate area of the wet drainage system that runs through stand 49. See leaf-off imagery.							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainages in stand 57.							

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28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Series of drainages and seeps that occur throughout stand 69.							
29	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Serves well as a stream buffer, do not manage.							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage.							
35	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainages in stand 55.							
36	Unavailable	3A: Conservation Values incompatible with harvest at this time	108	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Multiple seeps and drainages originate in this stand, most flowing into the long, linear lowland stands that are present in the interior and edges of this stand. Good stand to leave unmanaged due to these factors and because it will be the only unmanaged hardwood stand in the Compartment.							
37	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This appears to be the start of a wet drainage that flows north along the east edge of stand 12 and into stand 11.							
38	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage that extends into stand 18.							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold one entry and cut with stands 39 and 49 to the east. Protect sugar maple regen pockets and leave the supercanopy sugar maple and basswood.							

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40	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet areas, drainages, and seasonal streams that are present in stand 11 are covered by this site condition.							
41	Unavailable	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep slopes next to Grindstone Creek.							
42	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A large drainage passes from the southwest to the northeast in this site condition, as well as an additional drainage that comes from the north out of stand 11. Both converge and dump into the middle of stand 96, leading into stand 18.							
43	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Grindstone Creek							
44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Very wet areas of stand 42. A stream passes north through the western part of the site condition and it looks like a stream passes very close to the eastern site condition.							

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46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet, part of a larger drainage which flows to the southeast.							
47	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The southern 2 parts of this site condition cover a seasonal stream, part of which sits in a small ravine. The northern part of the site condition is the approximate area of some wet ground, which likely feeds into the seasonal stream.							
48	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
49	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The west part of this site condition is very wet with what looks to be a vernal pool at the east side. The eastern part of the site condition is a drainage.							
50	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long drainage with some vernal pools mixed in.							
51	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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52	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Drainages that pass through stand 9. The western site condition is more of a seasonal stream.							
53	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition covers the various intermittent streams, drainages, and wet areas that are present throughout stand 12. See recent leaf-off imagery good view of these features.							
54	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream buffer left to discourage beaver activity on the adjacent stream. Do not manage.							
55	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small vernal pool at the south end which appears to be filled by seasonally wet ground which extends to the north.							
56	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Recommended retention areas for stand 76.							
57	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two water drainages that pass through stand 6. The western site condition is a seasonal stream. The eastern feature is more of a drainage.							

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58	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for Grindstone Creek.							
59	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for adjacent lowland.							
60	Unavailable	3K: Rare or unique landforms	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dry sinkhole.							



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
Grindstone Creek east stand	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA	19
Comments				
Steep drainage of Grindstone Creek. Most of heavier timber is toward the south end of the stand, toward the headwaters. As you go downstream it thins way out to some grassy areas.				
Grindstone Creek West stand	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA	37
Comments				
Nice hardwood stand that is part of Grindstone Creek Hardwood "Natural 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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
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	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	42330 - Upland Fir	Poletimber Medium	2.9	31	51-80	N/A	This stand was cut at the same time as stand 10 to the west but beavers removed all of the aspen over the years, leaving conifers to dominate the overstory. Stocking is irregular, with several areas of poor stocking. A few clumps of older red maple at the east end. I found one white oak sapling (3" DBH) in the middle part of the stand. Average ba/acre from 4 plots = 58 square feet. Short, steep slopes leading down to the adjacent lowland along the southeast side.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	1	Pole/Log	8		Red Maple	Low		Variable	Sapling
Black Spruce	6	Pole/Sapling	6		Balsam Fir	Medium		Variable	Sapling
Balsam Fir	65	Pole/Sap/Log	5	31	Black Spruce	Low		5 - 10 feet	Sapling
Red Maple	5	Pole/Log	8		White Spruce	Low		Variable	Sapling
White Pine	8	Pole/Sap/Log	7		Beech	Trace		Variable	Sapling
White Spruce	15	Pole/Sap/Log	6		Black Cherry	Low		Variable	Tall Shrub
2	4119 - Mixed Northern Hardwoods	Poletimber Well	14.7	94	81-110	N/A	Mixed hardwood stand sitting in a valley with steep side-slopes and Grindstone Creek at the bottom. The majority of the stand is upland with the exception of the stream bottom, which is narrow in most places, but widens out at the north and south ends of the stand. Cedar is present in the middle of the stand with a larger clump at the south end. Hardwoods are only mediocre quality although there is a good representation of healthy yellow birch. Large diameter aspen is scattered throughout, with a few massive trees in excess of 20" DBH. Trace of hemlock (log/pole) and paper birch (log/pole). Average ba/acre from 5 plots = 102 square feet. A few small areas along the steep slopes in the north half were partially harvested when stands 3 and 88 were cut, an old road cutting down the bank to the stream is still visible on the ground. However, no future management should be done in this stand due to the aforementioned steep slopes and potential for erosion into Grindstone Creek.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern White Cedar	12	Log/Pole	12		White Ash	Low		< 5 feet	Seeding
Basswood	3	Log/Pole	11		Balsam Fir	Trace		Variable	Sapling
Balsam Fir	1	Pole	6		Beech	High		Variable	Sapling
Bigtooth Aspen	1	Log/XLog	16		Ironwood	Low		Variable	Sapling
Ironwood	1	Pole	5						
Quaking Aspen	9	Log/XLog	16						
Sugar Maple	30	Pole/Log	8	94					
Red Maple	29	Log/Pole	10						
Beech	4	Pole/Log	8						
Yellow Birch	10	Pole/Log	9						
3	4130 - Aspen	Poletimber Well	22.7	38	51-80	N/A	Moderate quality aspen stand that was heavily impacted by browse in the past, which has resulted in "patchy" stocking of aspen. There are numerous areas where aspen is not well-stocked and instead a mix of ironwood and cherry is dominant, particularly in the north half of the stand (Bing imagery shows this well). These areas are more "U" like in nature as there are usually other shrubs mixed in like serviceberry. Aspen diameters are quite large for their age, likely due to a combination of good site quality (hardwood site) and the lower stocking. Seasonally wet ground is present throughout the portion of the stand southeast of the road, white ash becomes common in the understory in this area. There are also some small pockets in this area with a good representation of paper birch. A small ravine with a stream at the bottom is present along the south edge, flowing east. A small amount of residual sugar maple are scattered throughout the stand. Trace of beech (pole/log), balsam fir (pole), and white spruce (pole) in the overstory. Average ba/acre from 13 plots = 75 square feet. Successful regeneration of this stand is doubtful due to the continued high browse pressure in this area. It would make sense to wait until other nearby stands are ready for a treatment, with the hope that a larger harvest area may reduce the browse impacts. When the stand is prescribed, protect all water features as well as the paper birch component and some of the U clumps.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Ironwood	12	Sapling/Pole	4		Black Cherry	High		Variable	Tall Shrub
Black Cherry	5	Pole/Sapling	5		Serviceberry (Juneberry)	Low		Variable	Tall Shrub
Red Maple	1	Pole/Sapling	5		Red Maple	Low		>20 feet	Sapling
White Ash	1	Pole	6		Beech	Trace		Variable	Sapling
Sugar Maple	4	Pole/Log/Sap	7		White Ash	Medium		Variable	Sapling
Balsam Poplar	2	Pole/Log	8		Ironwood	High		Variable	Sapling
Quaking Aspen	45	Pole	8	38	Pin Cherry	Trace		>20 feet	Tall Shrub
American Elm	1	Pole	6		Paper Birch	Trace		>20 feet	Sapling
Paper Birch	5	Pole/Sapling	5		Witch Hazel	Low		10 - 20 feet	Tall Shrub
Bigtooth Aspen	24	Pole/Log	9		Sugar Maple	Trace		>20 feet	Sapling
					Hazelnut (American)	Low		5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
4	320 - Upland Shrub	Nonstocked	7.3		Unspecified	No	Meandering U type, parts of which were recently used as a landing for the surrounding harvest in stand 5. Lots of cherry throughout. Quaking aspen is encroaching along the edges. The southwest corner of the stand is a clump of M6/M3.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Quaking Aspen		Medium	5 - 10 feet	Sapling		
		Balsam Fir		Low	Variable	Sapling		
		White Pine		Trace	Variable	Sapling		
		Balsam Fir		Trace	>20 feet	Pole		
		Sugar Maple		Low	>20 feet	Pole		
		White Pine		Trace	>20 feet	Log		
		Black Cherry		High	Variable	Tall Shrub		
		White Pine		Trace	>20 feet	Pole		
		Red Maple		Low	>20 feet	Sapling		
		Bracken Fern		Medium	Unspecified	Non-Wood		
		Sugar Maple		Low	>20 feet	Sapling		
		White Spruce		Trace	>20 feet	Log		
		Red Maple		Low	>20 feet	Pole		
5	4130 - Aspen	Sapling Well	25.9	6	Immature	N/A	This stand was clear cut in the winter of early 2018. Regeneration has come back well, although it is pure aspen without any species diversity. Browse impacts are negligible on the quaking aspen, however the bigtooth aspen is being heavily browsed and I'm doubtful much of it will survive. Most of the bigtooth seems to be in the west half of the stand. The majority of this stand is upland, although there looks like to be some seasonally wet ground along the south/southeast parts of the stand.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Bigtooth Aspen		15	Sapling	1		
		Balsam Poplar		5	Sapling	1		
		Quaking Aspen		80	Sapling	1		6
		Sub-Canopy Species		Density	Avg. Height	Size		
		Black Cherry		Low	5 - 10 feet	Tall Shrub		
		Ironwood		Low	< 5 feet	Seeding		
		Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub		
6	4130 - Aspen	Poletimber Well	18.6	43	111-140	N/A	Nice aspen stand with a good component of hardwoods in the understory, some of which are recruiting into the overstory. Sugar maple and ironwood are present throughout, but more abundant in the west half of the stand, while the east half shifts towards more of a red maple/white ash mix in the understory. A few small areas are dominated by hardwoods in the overstory, such as the far northwestern corner. A lot of the merchantable ash are dead or close to it because of EAB, but there are still a few stems over 5" DBH that appear healthy and relatively unaffected by EAB. The entire stand slopes down gently to the east/northeast. A seasonal stream runs southwest to northeast in the northwest part of the stand. A small drainage runs south to north close to the eastern stand edge. 2 cedar trees as well as 2 yellow birch saplings were found in the eastern drainage. Trace of balsam fir (pole), elm (pole), paper birch (pole), and pin cherry (pole) in the overstory. Average ba/acre from 9 plots = 119 square feet. This stand is ready to harvest now but should be delayed an entry and cut with adjacent stands 11, 13, and 14 in order to make a larger harvest area. When it is prescribed, protect all water features and save as much of the hardwood component as possible.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Bigtooth Aspen		4	Log/Pole	11		
		Sugar Maple		15	Pole/Sapling	5		
		Quaking Aspen		67	Pole/Log	9		43
		Black Cherry		3	Pole	6		
		Red Maple		2	Pole	6		
		Ironwood		5	Pole/Sapling	5		
		Balsam Poplar		3	Pole/Log	8		
		White Ash		1	Pole	5		
		Sub-Canopy Species		Density	Avg. Height	Size		
		Sugar Maple		High	>20 feet	Sapling		
		Basswood		Trace	>20 feet	Sapling		
		Ironwood		High	>20 feet	Sapling		
		Serviceberry (Juneberry)		Trace	>20 feet	Tall Shrub		
		Black Cherry		Low	Variable	Tall Shrub		
		Paper Birch		Trace	>20 feet	Sapling		
		Red Maple		Low	>20 feet	Sapling		
		Balsam Fir		Trace	Variable	Sapling		
		Beech		Low	Variable	Sapling		
		White Ash		Medium	Variable	Sapling		
		Hazelnut (American)		Trace	5 - 10 feet	Tall Shrub		
		American Elm		Trace	Variable	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
7	6120 - Lowland Cedar	Poletimber Well	11.2	107	171-200	N/A	Moderate quality cedar stand with some variability due to windthrow and dieback. Most cedar in the southeastern 1/2 of the stand are healthy and this area is well-stocked. A pocket of cedar decline is present in the northeast corner of the stand. The west half of the stand has had a lot of blowdown, thick enough to the point where I didn't attempt to go into this part, I just looked at it from the edges. There looks like a decent amount of quaking aspen and balsam poplar regen in these areas of blowdown. Average ba/acre from 5 plots = 186 square feet. Many of the cedar throughout the stand have 10-20 feet of damaged boles that has exposed interior sapwood. It appears to have happened long ago and has since healed over, but I'm not sure of the reason for this. Perhaps it's from a wildfire long ago or elk rubbing their antlers? Not all areas of the stand are very wet, there appears to be some inclusions of drier ground along the edges. This stand is the source of a small stream which flows north into adjacent stand 8 and further into Compartment 17.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		6	Pole	6		Tag Alder		
Quaking Aspen		7	Log/XLog	15		Quaking Aspen		
Black Spruce		1	Pole	7		Balsam Poplar		
White Spruce		2	Pole/Log	9		Black Spruce		
Red Maple		2	Pole/Log	8		Balsam Fir		
Balsam Poplar		2	Log	14		Density		
Northern White Cedar		77	Pole/Log	8	107	Avg. Height		
Paper Birch		3	Pole	8		Size		
8	6229 - Mixed lowland shrub	Nonstocked	1.9		Unspecified	No	Only looked at the south edge of the stand, it looks like mostly alder and willow with some scattered BAM and quaking aspen. A small stream meanders north through the stand.	
Sub-Canopy Species		Density	Avg. Height	Size				
Tag Alder		Medium	Variable	Tall Shrub				
Willow spp.		Medium	Variable	Tall Shrub				
9	4130 - Aspen	Sapling Well	16.0	28	Immature	N/A	Well-stocked aspen stand that was cut in 1995 in the sale Beaverville Aspen (#53-007-95, Georgia Pacific). The only area that didn't regenerate well is the northwest part of the stand which has some wet ground and is now more of a U type. Abundant shrub component throughout the stand, the hazelnut in particular, which is close to the "high" density category in the sub-canopy coverage. A seasonal stream/drainage runs south to north through the middle of the stand. Trace amounts of elm (pole/sap), cedar (log), basswood (log), and yellow birch (pole) can be found near the small stream. An additional drainage is present in the northwestern corner of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		3	Sapling	3		Beech		
Black Cherry		5	Sapling	3		Red Maple		
Ironwood		5	Sapling	3		White Ash		
Balsam Fir		2	Pole/Sapling	7		Serviceberry (Juneberry)		
Balsam Poplar		5	Sapling/Pole	4		Black Cherry		
Bigtooth Aspen		5	Pole/Sapling	5		Paper Birch		
Quaking Aspen		74	Sapling/Pole	4	28	Ironwood		
Paper Birch		1	Sapling	3		Black Ash		
						Hazelnut (American)		
						Balsam Fir		
						Leatherwood		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
10	4137 - Aspen, Birch	Sapling Well	14.7	31	51-80	N/A	Moderate quality aspen stand with a good component of birch. There are large areas in the eastern 1/3rd of the stand where birch is dominant. Lowland may be more prevalent in the stand than upland, as there are various wet areas throughout, particularly in the west half. However, it's difficult to tell at this time due to the snowpack. Most deciduous trees have been removed by beavers along a roughly 100 foot wide strip on the east edge of the stand. Conifers and lowland shrubs, particularly willow, now dominate this area. Some of the black cherry may become merchantable and part of the overstory in the future. Average ba/acre from 7 plots = 70 square feet. A wet drainage is present in the southeast part of the stand, running south into stand 16. The High Country Pathway runs northeast/southwest through the middle of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		2	Pole/Sapling	5		Black Cherry		
American Elm		1	Sapling	3		White Spruce		
White Spruce		4	Pole/Sap/Log	6		Willow spp.		
Paper Birch		20	Sapling/Pole	3		Black Ash		
Red Maple		5	Sapling	3		Black Spruce		
Balsam Poplar		9	Pole/Sapling	6		Balsam Fir		
Balsam Fir		9	Sapling/Pole	4		Paper Birch		
Quaking Aspen		49	Sapling/Pole	4	31	Hazelnut (American)		
White Pine		1	Pole/Sapling	5		Red Maple		
						Serviceberry (Juneberry)		
11	4130 - Aspen	Poletimber Medium	15.2	33	51-80	N/A	Moderate quality aspen stand that was clearcut in 1990 by Catalano. Aspen regenerated well in the east half of the stand but the northwestern half has several areas of poor stocking. A wet drainage and seasonally wet ground are present in this area and flow northeast out of the stand. Another drainage passes north-south along the entire eastern stand edge. Aspen diameters vary significantly throughout the stand, some areas average 8-10" DBH, more so in the west half, while many areas in the east half average around 4-7" DBH. Balsam fir is mostly in the northeast corner. Some scattered clumps of nearly pure ironwood and black cherry can be found in the southwest part of the stand. The northwest sliver of the stand, west of the High Country Pathway, is essentially an M3 with a mix of sugar maple, white ash, and black cherry. American hazelnut is abundant in the east half. A few scattered residual sugar maple are present but rare. Most white ash that are near merchantability appear to be dead from EAB, although there may be a handful of stems that are still alive. I found one yellow birch (6" DBH), one red oak (5" DBH), and one basswood (10" DBH), and a couple of cedar (pole/log) in the northeast part of the stand. Average ba/acre from 9 plots = 78 square feet. Manage this stand next entry with stands 6, 14, and 13. Protect all drainages and wet areas.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		5	Pole/Log	8		American Elm		
Paper Birch		1	Pole/Sapling	6		Black Ash		
Balsam Fir		6	Pole/Sapling	6		Black Cherry		
Bigtooth Aspen		8	Pole/Log	8		Willow spp.		
Ironwood		3	Pole/Sapling	5		White Ash		
Quaking Aspen		70	Pole/Sap/Log	7	33	Paper Birch		
Black Cherry		3	Pole	6		Red Maple		
Sugar Maple		3	Pole/Sap/Log	6		Hazelnut (American)		
White Ash		1	Pole	6		Beech		
						Serviceberry (Juneberry)		
						Ironwood		
						Witch Hazel		
						Sugar Maple		
						Balsam Fir		
12	4110 - Sugar Maple Association	Sawtimber Well	140.7	110	81-110	N/A	Nice hardwood stand. Thinned in 2009 in the sale Grindstone Hardwoods (#53-006-05, Tulgestka). Limited tree species diversity, both in the overstory and understory. Most beech have died due to BBD or are close to it, those that are still healthy are likely resistant. Rolling terrain. A seasonal stream is present along the west edge in a small ravine. The closed road along the west edge near this stream is heavily damaged and rutted from the previous harvest, it needs to be rehabilitated. Another stream and drainage system is present at the far northern edge. Average ba/acre from 12 plots = 107 square feet. This stand should be ready for another treatment next entry period.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Basswood		36	Log/XLog/Pole	13		Beech		
Beech		2	Log/XLog/Pole	15		White Ash		
Sugar Maple		62	Log/Pole/XLog	12	110	Ironwood		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13	4130 - Aspen	Poletimber Well	10.4	43	81-110	N/A	<p>Moderate quality aspen stand that was clearcut by Champion in 1980. Quaking aspen diameters tend to vary; some sawtimber-sized stems are present but not very common yet. Site quality increases as you move west in the stand, and as expected, so does the sugar maple understory. A good amount of merchantable white ash stems are still alive although some are showing signs of EAB infection. It's difficult to tell with the current snow depth, but there appears to be some seasonally wet ground throughout the stand. Trace of paper birch (pole), basswood (pole), beech (pole), and elm (pole) in the overstory. Average ba/acre from 7 plots = 97 square feet. Manage next entry with stands 6, 11, and 14. Protect all wet areas.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	4	Pole/Sapling	5		Black Ash	Trace		Variable	Sapling
Quaking Aspen	80	Pole/Log	8	43	Balsam Fir	Trace		Variable	Sapling
Balsam Poplar	6	Pole	8		Red Maple	Trace		>20 feet	Sapling
Bigtooth Aspen	5	Pole/Log	8		Sugar Maple	Low		>20 feet	Sapling
White Ash	5	Pole	5		Paper Birch	Trace		>20 feet	Sapling
					Beech	Trace		Variable	Sapling
					Basswood	Trace		>20 feet	Sapling
					Ironwood	Low		Variable	Sapling
					Hazelnut (American)	Low		5 - 10 feet	Tall Shrub
					White Ash	High		Variable	Sapling
					Black Cherry	Low		Variable	Tall Shrub
					American Elm	Trace		Variable	Sapling

14	4130 - Aspen	Poletimber Well	9.7	43	81-110	N/A	<p>Moderate quality aspen stand. Clearcut in 1980 by Champion. Regenerated well except for an open area in the middle that appears to have been the old landing. Beavers removed most of the aspen from the east edge of the stand. There are now 2 clumps of fir along this east edge. The northern clump has some white spruce mixed in. In between the 2 clumps is a mix of cherry, serviceberry, red maple, and ironwood. A well-developed shrub layer is present throughout most of the stand, including abundant American hazelnut. A few white ash poletimber stems are still alive and appear mostly unaffected by EAB. Average ba/acre from 8 plots = 83 square feet. Pit and mount topography is common which suggests seasonally wet conditions although it's difficult to tell with the current snow depth. Imagery does not indicate any drainages. Hold this stand until next entry and cut together with stands 6, 11, and 13.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Ironwood	2	Pole	5		White Ash	Medium		>20 feet	Sapling
Sugar Maple	2	Pole	7		Nannyberry	Trace		Variable	Tall Shrub
Red Maple	12	Pole/Sapling	6		Serviceberry (Juneberry)	Low		>20 feet	Tall Shrub
White Ash	1	Pole	5		Black Cherry	Low		Variable	Tall Shrub
Quaking Aspen	74	Pole/Log	8	43	Sugar Maple	Trace		>20 feet	Sapling
Balsam Fir	7	Pole/Log	8		Ironwood	Medium		Variable	Sapling
Black Cherry	1	Pole	6		Red Maple	Medium		>20 feet	Sapling
White Spruce	1	Pole/Log	8		Hazelnut (American)	Medium		5 - 10 feet	Tall Shrub
					Beech	Trace		Variable	Sapling
					Balsam Fir	Trace		Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
15	320 - Upland Shrub	Nonstocked	2.9		Unspecified	No	Non-forested stand that was likely an old landing when adjacent stands 1, 10, and 42 were harvested. Not much encroachment from other species. One Siberian crabapple (~5' tall) in the northeast part of the stand. Lots of snow on the ground at time of inventory but the dominant ground cover appears to be bracken and moss.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Balsam Fir	Low	Variable	Sapling					
								Black Spruce	Trace	Variable	Sapling					
								White Pine	Trace	Variable	Sapling					
								Bracken Fern	Medium	Unspecified	Non-Wood					
								White Pine	Trace	>20 feet	Pole					
								White Spruce	Low	>20 feet	Pole					
								Red Maple	Trace	>20 feet	Log					
								Black Spruce	Trace	>20 feet	Pole					
								Quaking Aspen	Trace	< 5 feet	Seeding					
								White Spruce	Low	Variable	Sapling					
								Balsam Fir	Trace	>20 feet	Pole					
Black Cherry	Medium	Variable	Tall Shrub													
16	6239 - Mixed Emergent Wetland	Nonstocked	11.9		Unspecified	No	A stream passes through this stand and there are numerous beaver dams throughout the length of the stand. Active beaver dams are present at the south end and in the middle. Older, inactive dams are present at the far north end. Scattered clumps of trees are present, particularly in the middle part, where there is a decent amount of spruce and fir. I only looked at this stand from a few spots along the edges.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Balsam Fir	Low	Variable	Sapling					
								Balsam Fir	Low	>20 feet	Pole					
								Tag Alder	Medium	5 - 10 feet	Tall Shrub					
								Black Spruce	Low	>20 feet	Pole					
								Willow spp.	Low	Variable	Tall Shrub					
Red Maple	Trace	Variable	Sapling													
17	6122 - Black Spruce	Poletimber Well	5.9	83	81-110	N/A	A small strip of primarily spruce that was left as a buffer for the small stream to the west when stand 21 was clearcut. Most of the stand is on an upland/lowland transition, although lowland ground is slightly more common. The spruce is generally high quality and healthy. There are a few areas dominated by smaller diameter trees where the adjacent harvest in stand 21 likely dipped into this stand to grab a few trees. Cedar is most common in the northeast part of the stand. A few white ash poletimber stems are still alive. Trace of white pine (log/xlog) and elm (pole). Average ba/acre from 8 plots = 95 square feet. This stand serves well as a stream buffer and should remain unmanaged.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								White Spruce	3	Log/Pole	13		Tag Alder	Medium	5 - 10 feet	Tall Shrub
								Paper Birch	4	Pole	7		Paper Birch	Trace	>20 feet	Sapling
								Northern White Cedar	12	Log/Pole	13		White Ash	Low	Variable	Sapling
								Quaking Aspen	9	Log/Pole	12		Red Maple	Low	>20 feet	Sapling
								Black Spruce	56	Pole/Log	9	83	Balsam Fir	Medium	Variable	Sapling
								Red Maple	8	Pole	7		Black Spruce	Low	Variable	Sapling
								Balsam Fir	8	Pole/Sap/Log	6					
18	6233 - Wet Meadow	Nonstocked	4.3		Unspecified	No	A stream flows north through the length of the stand. There are two new beaver dams at the north end of the stand which have created small ponds, both dams appear active. The south half of the stand is basically upland side-slopes with the stream flowing through a small ravine.									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
19	6112 - Lowland Aspen	Sawtimber Poor	9.0	77	1-50	N/A	Wet lowland stand that is the headwaters for a stream that flows north out of this stand. Very poorly-stocked, with a lot of blowdown. Most of the blowdown appears to be from white ash and/or black ash that died from EAB. The only area of decent stocking is at the far southern end where there are a few cedar, aspen, and maple. Most of the aspen are very large, with several over 20" DBH. Cattails are abundant in most places. Average ba/acre from 5 plots = 22 square feet. If blowdown and natural senescence continue, this will be a non-forested stand next entry.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		8	Log/Pole/XLog	14		Beech		Trace	Variable	Sapling	
White Spruce		1	Log	12		Black Ash		Low	Variable	Sapling	
Balsam Fir		5	Pole	8		Tag Alder		Low	5 - 10 feet	Tall Shrub	
American Elm		4	Pole/Log	8		Balsam Poplar		Low	5 - 10 feet	Sapling	
Northern White Cedar		10	Log/Pole	10		Cattail spp.		High	Unspecified	Non-Wood	
Quaking Aspen		63	Log/XLog	16	77	Red Maple		Trace	Variable	Sapling	
Sugar Maple		2	Pole	9		Black Ash		Low	< 5 feet	Seeding	
Red Maple		7	Log/Pole	11		Red Osier Dogwood		Trace	5 - 10 feet	Tall Shrub	
						Balsam Fir		Low	Variable	Sapling	
20	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.1	72	81-110	N/A		Small mixed species stand that was never harvested when surrounding stands were. The west half of the stand is upland and predominantly hardwoods. The east half becomes wet and has most of the spruce. Supercanopy aspen is scattered throughout, including some very large trees (20"+ DBH). The south half is a continuation of a drainage that comes from stands to the southwest, and then flows out of stand 20 southeast into stand 9. Quite a bit of deadfall in the stand, likely from aspen senescing over the years. Trace of balsam fir poletimber. Average ba/acre from 4 plots = 88 square feet. No management due to the wet drainage.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Basswood		2	Log/Pole	11		Black Ash			Medium	< 5 feet	Seeding
White Spruce		20	Pole/Log	8		Hazelnut (American)			Low	5 - 10 feet	Tall Shrub
Quaking Aspen		22	Log/XLog/Pole	16		Black Ash			Medium	5 - 10 feet	Sapling
Yellow Birch		1	Pole	6		Balsam Fir			Trace	Variable	Sapling
Balsam Poplar		8	Pole/Log	8		American Elm			Trace	Variable	Sapling
Beech		1	Pole	7		Balsam Poplar			Trace	Variable	Sapling
Paper Birch		1	Pole/Log	8							
Sugar Maple		5	Pole/Log	8							
Red Maple		39	Pole/Log	8	72						
21	4134 - Aspen, Spruce/Fir	Poletimber Well	21.3	43	81-110	N/A	Moderate quality aspen stand with significant variation in diameters. A few areas have aspen averaging around 9-11" DBH, while other areas are much smaller, around 5-7" DBH. The same can be said for the conifer component, as there are a few clumps of larger diameter trees but the majority are just over merchantability. Numerous wet areas throughout the stand (see site conditions layer and 98DOQ imagery), especially the east and southeast parts of the stand which appears to be a north-south running drainage and has standing water in some spots. The old landing at the northwest side of the stand is still semi-open with only some scattered conifers. A handful of large diameter red maple and basswood are present, mostly at the south end. Trace of elm (pole). Average ba/acre from 9 plots = 102 square feet. This stand would benefit from another 10 years of growth and would make sense to manage together with stand 24 to the south.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Balsam Fir		18	Pole/Sapling	5		Balsam Fir		Medium	Variable	Sapling	
Red Maple		11	Pole	7		Black Cherry		Medium	Variable	Tall Shrub	
White Spruce		3	Pole/Sap/Log	7		White Spruce		Low	Variable	Sapling	
Black Spruce		8	Pole/Sapling	6		Tag Alder		Low	Variable	Tall Shrub	
Balsam Poplar		8	Pole	8		Black Spruce		Low	Variable	Sapling	
Sugar Maple		5	Sapling	3		Nannyberry		Trace	5 - 10 feet	Tall Shrub	
Quaking Aspen		46	Pole/Sap/Log	7	43	Red Maple		Low	>20 feet	Sapling	
Paper Birch		1	Pole	7		White Ash		Medium	< 5 feet	Seeding	
						White Ash		Trace	Variable	Sapling	
						Ironwood		Trace	Variable	Sapling	
						Sugar Maple		Trace	>20 feet	Sapling	
						Beech		Trace	Variable	Sapling	
						Quaking Aspen		Medium	10 - 20 feet	Sapling	
						American Elm		Trace	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
22	4130 - Aspen	Sapling Well	10.9	25	Immature	N/A	This stand was clearcut in 1998 in the sale Beaverville Aspen (Georgia Pacific, #53-007-95). Aspen regenerated well throughout the stand although diameter growth varies dramatically. The south end of the stand is much larger and basically an A6 at this time, while the north half of the stand is still largely unmerchantable. A wet drainage passes southwest to northeast through the northern half (see 98DOQ and newer leaf-off imagery). Additional wet ground is present along the eastern stand edge.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		3	Sapling	2		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub
Balsam Fir		10	Sapling/Pole	3		White Ash		Medium	Variable	Sapling
White Ash		3	Sapling	3		Black Ash		Low	Variable	Sapling
Bigtooth Aspen		10	Pole/Sapling	6		Beech		Low	Variable	Sapling
Balsam Poplar		5	Pole/Sapling	5		Black Cherry		Low	Variable	Tall Shrub
Quaking Aspen		69	Sapling/Pole	4	25	Ironwood		Low	Variable	Sapling
						Balsam Fir		Low	5 - 10 feet	Sapling
23	310 - Herbaceous Openland	Nonstocked	2.0	0	Unspecified	Managed Opening		The western 2/3rds of this stand is mowed. The remainder is a mix of white pine and fir.		
Sub-Canopy Species		Density	Avg. Height	Size						
Black Cherry		Trace	>20 feet	Tall Shrub						
White Pine		Trace	>20 feet	Log						
White Pine		Low	Variable	Sapling						
White Pine		Low	>20 feet	Pole						
Balsam Fir		Trace	>20 feet	Log						
Balsam Fir		Trace	>20 feet	Pole						
Balsam Fir		Low	Variable	Sapling						
24	4139 - Aspen, Mixed Deciduous	Poletimber Well	37.8	33	81-110	N/A	Developing aspen stand that is just reaching merchantability. Clearcut in 1990 by Catalano. Not all areas of the stand regenerated well as there are scattered areas of poor stocking, especially in the south half of the stand. Aspen diameters tend to be larger in the areas of lower stocking and conifers are more numerous. Very nice component of paper birch, tending to be most abundant in wet areas. A few wet drainages were identified in the stand (see site conditions layer) and despite being upland, the majority of this stand is "close" to being wet as it looks like the water table is very close to the surface based on consistent pit and mound topography throughout the stand. A well-developed shrub layer is present, becoming more common as you get closer to the west edge. Most of the black cherry will only be of "shrub" quality but there are a few stems that look like they will have good form and recruit into the overstory. Trace of white pine (pole/sap) and elm (pole/sap). Average ba/acre from 13 plots = 85 square feet. Manage this stand together with stand 21 to the north and treat in 10 or 20 years. Exclude all wet areas. Protect the birch and hazel shrub component.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		1	Pole/Sapling	5		Ironwood		Trace	Variable	Sapling
Bigtooth Aspen		3	Pole	7		Beech		Trace	Variable	Sapling
Red Maple		5	Pole/Sapling	5		White Ash		Low	Variable	Sapling
Quaking Aspen		55	Pole/Sap/Log	6	33	White Spruce		Low	Variable	Sapling
Balsam Fir		10	Pole/Sapling	5		Witch Hazel		Low	5 - 10 feet	Tall Shrub
White Spruce		4	Pole/Sap/Log	6		Red Maple		Low	>20 feet	Sapling
Black Cherry		2	Pole/Sapling	5		Hazelnut (American)		Low	5 - 10 feet	Tall Shrub
Balsam Poplar		10	Pole/Sapling	6		Paper Birch		Low	>20 feet	Sapling
Paper Birch		10	Sapling/Pole	4		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub
						Sugar Maple		Trace	Variable	Sapling
						Black Cherry		Medium	Variable	Tall Shrub
						Balsam Fir		Medium	Variable	Sapling
						Tag Alder	Trace	10 - 20 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																	
25	3105 - Mixed Upland Herbaceous	Nonstocked	17.4		Unspecified	No	Non-forested opening with scattered clumps of hardwoods and pine. Too much snow at time of inventory to see ground cover but it appears to be a mix of grass and bracken fern. The west half of the stand is much more open and it looks like trees were cut rather recently as there are scattered brush piles. Autumn olive is also abundant in the west half and is filling in some of the areas that were cut. Red oak saplings were planted throughout the entire stand, as well as a few crabapple, and all are protected with fencing. The majority appear healthy, I only noticed one that was dead. A few mature apple trees can be found along the far eastern edge. Rolling terrain with a few short, steep slopes in the narrow middle part of the stand.																	
								Sub-Canopy Species	Density	Avg. Height	Size													
								White Pine	Trace	>20 feet	Pole													
								White Pine	Trace	Variable	Sapling													
								White Pine	Trace	>20 feet	Log													
								Red Pine	Trace	>20 feet	Pole													
								Ironwood	Trace	Variable	Sapling													
								Balsam Poplar	Trace	5 - 10 feet	Sapling													
								Sugar Maple	Trace	Variable	Sapling													
								Blackberry/Raspberry	Low	< 5 feet	Tall Shrub													
								Sugar Maple	Low	>20 feet	Log													
								Autumn Olive	Medium	5 - 10 feet	Tall Shrub													
								Basswood	Trace	>20 feet	Log													
Red Oak	Trace	5 - 10 feet	Sapling																					
26	6120 - Lowland Cedar	Poletimber Well	13.3	102	141-170	N/A	Wet lowland cedar stand, the majority of which is in decline. Some of the cedar is already dead, particularly in the northeast part of the stand. Black spruce diameters tend to vary considerably. There used to be more quaking aspen in the overstory but a lot of it has died and fallen over. Thin strip of upland along the east edge of the narrow southern 1/2 of the stand. A small inclusion of upland hardwoods is present at the far northwest corner (too small to break out on its own). Trace of paper birch (pole) and balsam poplar (log). Average ba/acre from 7 plots = 143 square feet. There are scattered areas of standing water in the stand, water appears to flow to the north as part of a larger drainage system that extends into the east side of stand 21. It's unclear what is causing the cedar decline, perhaps there is a beaver dam further to the north that is disrupting the water flow in this stand. Next entry this stand will likely have a canopy closure of 50-75% if the cedar continues to die, possibly even lower. No management due to the wet soils.																	
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size								
								Northern White Cedar	60	Pole/Log	9	102	Black Spruce	Low	Variable	Sapling								
								Black Spruce	13	Pole/Sap/Log	7		Tag Alder	Low	5 - 10 feet	Tall Shrub								
								Red Maple	6	Log/Pole	10		Black Ash	Low	< 5 feet	Seeding								
								Quaking Aspen	11	Log/XLog	14		Black Ash	Low	5 - 10 feet	Sapling								
								White Spruce	1	Log	13		Balsam Fir	High	Variable	Sapling								
								Balsam Fir	9	Pole	8		Cattail spp.	Trace	Unspecified	Non-Wood								
								27	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.9	92	81-110	N/A	Maple dominated stand of varying quality. In general, most of the red maple are multi-stemmed stump sprouts of only mediocre quality. Diameters vary significantly with some large diameter Xlog trees. Red maple tends to be more dominant west of the closed road while sugar maple is more dominant to the east. The ironwood understory is predominantly east of the road as well. Understory regeneration in the west half of the stand is more limited, with some areas with a "park-like" open understory. However there are also some scattered clumps of a younger age class of red maple in the 3-7" diameter range, suggesting that this stand had a partial harvest at one time. This younger age class can also be seen in the aspen component, which is mostly along the northern edge of the stand. Previous inventory noted a red-shouldered hawk nest in a large diameter paper birch. This nest is still present, located in the western 1/3rd of the stand. Terrain slopes down slightly to the north. Average ba/acre from 6 plots = 100 square feet.									
																Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
																Red Maple	54	Log/Pole/XLog	12	92	Ironwood	Medium	Variable	Sapling
																Beech	1	Log	11		White Pine	Trace	Variable	Sapling
																Bigtooth Aspen	8	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
White Pine	1	Pole/Log	8		Beech	Medium	Variable									Sapling								
Balsam Fir	3	Pole	7		Red Maple	Low	>20 feet									Sapling								
Quaking Aspen	1	Pole	8		Sugar Maple	Low	>20 feet									Sapling								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																											
28	4134 - Aspen, Spruce/Fir	Sapling Well	12.5	26	51-80	N/A	Moderate quality aspen stand that is just approaching merchantability. Clearcut in 1997 in the sale Beaverville Aspen (Georgia Pacific, #53-007-95). Regeneration is not well-stocked in all areas of the stand as there are scattered semi-open areas that are lacking in regeneration. One of these areas is a large area of wet ground at the south end of the stand that appears to be a seep and has cattails and lowland shrubs in it. Another wet area at the far northeast corner of the stand is mostly full of tag alder. Aspen quality varies throughout the stand with some of the aspen appearing unhealthy. Heavy balsam fir component in the middle part of the stand. The sugar maple and paper birch component is mostly at the far southern edge. A few cherry stems have recruited into the overstory and look like they will become merchantable trees. Trace of residual cedar along the north and west edges.																																																																																											
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29	4130 - Aspen	Sapling Medium	32.6	5	Immature	N/A	This stand was cut in late 2017/ early 2018 in the sale Bird Tally Aspen (53-008-15-01). Aspen has regenerated moderately well but is being hit hard by browse. Most of the bigtooth aspen looks dead or close to it, quite a bit of the quaking aspen is being browsed as well, although not as severely as the bigtooth. Even the black cherry and beech are being browsed. Lowland areas, including a drainage at the southwest end, are not regenerating well. A few residual red maple left along the edges and in the northeast part of the stand. Continue to monitor to see how the aspen is progressing.																																																																																											
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30	3202 - Autumn Olive/Honeysuckle	Nonstocked	1.9		Unspecified	No	This stand is full of autumn olive, which is encroaching into stand 55 to the east and west.																																																																																											
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31	4110 - Sugar Maple Association	Sawtimber Well	2.2	105	111-140	N/A	Small pocket of hardwoods surrounded by an aspen clearcut. Good quality. It doesn't look like it has been thinned before. Average ba/acre from 3 plots = 140 square feet. Heavy elk use as it looks like they are using this as a resting area between periods of browsing in the adjacent clearcut. Available for management but don't thin until there are treatments nearby.																																																																																											
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32	4110 - Sugar Maple Association	Sawtimber Well	80.7	105	51-80	N/A	Moderate quality hardwoods, last thinned in 2020. Thinned very heavily in many places. Quality is lowest along the north and northeast edges as there are many open-grown, wolfy trees in this area, but becomes much better in the interior of the stand. A few inclusions of a younger age class of primarily ironwood poletimber, with a few paper birch stems, are present along the north/northeast edge. A wet drainage is present in the east half of the stand, but was not protected during the harvest. Yellow birch can be found mostly in this area. Red maple becomes common in the wet areas as well as at the far east end of the stand. Rolling terrain. Trace of bigtooth aspen (log/pole) in the overstory. Average ba/acre from 8 plots = 69 square feet.																																																																									
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33	3303 - Mixed Low Density Trees	Nonstocked	11.9		Unspecified	No	This stand was manually cut by DNR personnel in 1976 and apparently treated with Tordon in an effort to create a semi-open stand. That treatment worked as there are now scattered trees mixed with non-forested areas. Some in-growth is encroaching from along the edges but minimal overall. No wildlife shrubs observed other than black cherry.																																																																									
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34	4119 - Mixed Northern Hardwoods	Sawtimber Medium	8.0	105	51-80	N/A	Open-grown hardwood stand dominated by red maple, most of which are multi-stemmed stump sprouts. Not the best quality but there are some large diameter trees in the stand (>20" DBH). Stocking is highly variable. This stand had a partial harvest in 1976 by DNR personnel, where I'm guessing just the aspen was removed. Only a minor amount of aspen regenerated after that harvest, now found in a few small pockets scattered throughout the stand. The south half of the stand tends to be "park-like" with a barren understory in most places. Understory regeneration is more developed in the north half. Average ba/acre from 7 plots = 80 square feet. No need for management at this time.																																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																		
35	4130 - Aspen	Sapling Well	67.3	6	Immature	N/A	<p>This stand was clearcut in 2017 in the sale Autumn Aspen (53-017-15-01). Regeneration has come back well to aspen but with varying browse impacts. The quaking aspen and balsam poplar component is only being lightly browsed, however the bigtooth aspen is being heavily browsed in most areas. The highest areas of browse intensity were noted in the middle and southeastern parts of the stand. A lot of the bigtooth aspen is still alive at this point but I'm doubtful much of it will survive. Despite a large amount of hardwood volume (sugar maple, basswood, beech, birch) being cut, regeneration other than poplar species is virtually non-existent with the exception of a small amount of ironwood, which is also being browsed. Regeneration is lacking in those areas that were formerly dominated by hardwoods, which is mostly along the perimeter of the stand. If browse continues at this pace, I fully expect this to be an A2 next entry, or possibly an A1 in a worst case scenario.</p>																																																																																		
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36	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.2	88	111-140	N/A	<p>Hardwood stand dominated by moderate quality red maple. Possibly a two-aged stand as there are some much larger diameter red maple scattered throughout, many of which are good wildlife trees. The quaking aspen is old and close to death, providing good wildlife habitat, and can be found mostly along the southeast and north edges of the stand. Suppressed sugar maple saplings can be found throughout the stand, but these are old stunted stems, not new ingrowth. Trace of white pine (log/pole), balsam fir (pole), and basswood (log/xlog). Average ba/acre from 5 plots = 116 square feet. No records of a past treatment in this stand.</p>																																																																																		
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37	4319 - Mixed Upland Forest	Poletimber Well	7.7	37	81-110	N/A	<p>This is a highly variable stand. The eastern 1/3rd of the stand is primarily aspen, and there appears to be two age classes, younger aspen to the south and a clone of sawtimber-sized aspen to the north. The middle of the stand is dominated by balsam fir. The far southwest corner of the stand has smaller aspen, mostly poletimber, and is on an upland/lowland transition. The far west/northwest corner of the stand is a pocket of U type with mainly small diameter (2-5") cherry. Older, larger diameter red and sugar maple are scattered throughout infrequently, with a few wolfy, open-grown stems. Trace of basswood (log/xlog). Average ba/acre from 8 plots = 91 square feet. Clearcut in 1986 by Dave Bunker & Sons in the sale Fisherman #29 (#53-030-85).</p>																																																																																		
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38	3301 - Low Density Deciduous Trees	Nonstocked	7.7		Unspecified	No	<p>Narrow non-forested stand with scattered large diameter hardwoods. White pine is filling in along some of the edges but the majority of the stand does not have any regeneration. It looks like there is a lot of bracken fern at the ground level, although difficult to tell with the snow. Not a managed site.</p>																																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
39	4139 - Aspen, Mixed Deciduous	Poletimber Well	14.3	38	81-110	N/A	Moderate quality aspen stand. Clearcut in 1985 by Dave Bunker and Sons (#53-030-85, Fisherman #29). The east half of the stand is primarily quaking aspen with a large component of white ash in the understorey. Many of the white ash are still alive, including some poletimber stems in the overstorey. The southwest part of the stand is mostly balsam poplar clones. There are also some non-forested areas in this part of the stand, although BAM is starting to fill in. The northwest part of the stand turns into more of a MD6/MD3 with ironwood and black cherry dominant. Balsam fir is also mostly in the northwest part. A few patches of good sugar maple regen are present, mostly along the western edge of the stand. Trace of basswood (log), sugar maple (log), and white spruce (pole/log) in the overstorey. Average ba/acre from 10 plots = 81 square feet. This stand should be ready for management next entry.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
White Pine	1	Log/Pole	11		White Ash	Medium		Variable	Sapling	
Black Cherry	2	Pole/Sapling	5		Balsam Poplar	Low		Variable	Sapling	
Paper Birch	1	Pole/Sapling	5		Ironwood	Medium		Variable	Sapling	
Bigtooth Aspen	10	Pole/Log	8		Sugar Maple	Low		>20 feet	Sapling	
Quaking Aspen	46	Pole	7	38	Beech	Low		Variable	Sapling	
Balsam Poplar	23	Pole/Sapling	7		Black Cherry	Medium		Variable	Tall Shrub	
White Ash	3	Pole	6		Autumn Olive	Trace		5 - 10 feet	Tall Shrub	
Sugar Maple	2	Sapling/Pole	4		Serviceberry (Juneberry)	Low		Variable	Tall Shrub	
Ironwood	9	Pole/Sapling	5		Hazelnut (American)	Trace		5 - 10 feet	Tall Shrub	
Balsam Fir	2	Pole	7							
Beech	1	Pole	6							
40	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	3.4	75	51-80	N/A		Narrow, wet drainage with upland slopes on the north and south sides. The middle of the stand is very wet and not very well-stocked. Cedar is more common in the west half of the stand. Aspen and fir are more common in the east half on the upland edges. When stand 44 was harvested, a small buffer (~1/2 chain) was left against the west half of the stand stand, but not in the east half and the harvest went right up to the water edge. Lots of blowdown in the west half of the stand, from both cedar and black ash. It looks like black ash used to comprise a large part of the canopy but it is now all dead from EAB. Trace of elm (pole) and yellow birch (pole). Average ba/acre from 4 plots = 65 square feet. Too wet, no management.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Red Maple	10	Log/Pole	11		Paper Birch	Trace	>20 feet		Sapling	
Quaking Aspen	24	Pole/Log	8		Red Maple	Low	>20 feet		Sapling	
Balsam Fir	22	Pole/Log	8		Tag Alder	Medium	Variable		Tall Shrub	
Northern White Cedar	40	Pole/Log	9	75	Balsam Fir	Medium	Variable		Sapling	
Basswood	2	Log/Pole	11		Black Ash	Trace	Variable		Sapling	
Paper Birch	2	Pole	6							
41	4110 - Sugar Maple Association	Sawtimber Well	10.3	107	81-110	N/A	Moderate quality hardwood. Stocking is highly erratic with many areas that could be thinned while others do not need it (BA swings - 210, 100, 100, 60, 110, 160, 70, 90, 80). Not sure of the harvest history of this stand but I'm guessing it had a TSI treatment long ago. Beech is common in the stand, often occurring in pockets of several trees. Most have BBD but a few appear to be healthy (and possibly resistant). Trace of balsam fir (pole), bigtooth aspen (pole/log), and white pine (log/pole). Average ba/acre from 9 plots = 109 square feet. The majority of the stand sits on a moderately steep east facing slope. Previous stand examiner noted pine marten tracks throughout the stand. This stand should be ready for a thinning treatment next entry.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Basswood	32	Log/Pole/XLog	13		Ironwood	Low		Variable	Sapling	
Sugar Maple	55	Log/Pole	10	107	Beech	Medium		5 - 10 feet	Sapling	
Beech	12	Log/Pole/XLog	11							
Ironwood	1	Pole	6							
42	4130 - Aspen	Poletimber Well	29.0	31	111-140	N/A		Moderate quality aspen stand. Diameters on the aspen vary significantly, some areas are barely merchantable while others are in the 7-9" DBH range. A small inclusion of A9, maybe 1/2 acre, is adjacent to the U type (stand 15), not sure why it wasn't cut with the rest of the stand. Wet ground at the far eastern end of the stand, and also in the narrow part of the stand at the west end. A stream passes through this narrow part but it looks like this area was cut regardless of that fact. Trace of paper birch (pole). Average ba/acre from 9 plots = 111 square feet. The High Country Pathway passes through a large portion of the stand. The north half of this stand was formerly a part of Comp 8 but was merged into this Compartment, I didn't look at that half of the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Balsam Fir	15	Pole/Sapling	5		Black Cherry	Medium			Variable	Tall Shrub
White Spruce	2	Pole/Sapling	6		Black Ash	Trace			Variable	Sapling
Balsam Poplar	7	Pole/Sapling	6		Balsam Fir	Medium	Variable		Sapling	
Bigtooth Aspen	12	Pole	7		Paper Birch	Trace	>20 feet		Sapling	
Quaking Aspen	57	Pole/Sapling	5	31	Serviceberry (Juneberry)	Trace	Variable		Tall Shrub	
Red Maple	6	Pole	6		Red Maple	Trace	Variable		Sapling	
Black Spruce	1	Pole/Sapling	5							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
43	310 - Herbaceous Openland	Nonstocked	10.4		Unspecified	No	Grassy opening with scattered trees. This was a forested stand that was clearcut in 1986 along with adjacent stand 39, but failed to regenerate due to browse. Invasive honeysuckle (coded as Amur honeysuckle) is infrequently scattered throughout. Rolling terrain with steep slopes at the far southern end.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Ironwood	Trace	Variable	Sapling	
								White Spruce	Trace	>20 feet	Log	
								Balsam Fir	Trace	Variable	Sapling	
								Balsam Poplar	Trace	Variable	Sapling	
								Autumn Olive	Trace	< 5 feet	Tall Shrub	
								Balsam Fir	Trace	>20 feet	Pole	
								White Pine	Trace	>20 feet	Log	
								Balsam Poplar	Trace	>20 feet	Pole	
								Amur Honeysuckle	Trace	< 5 feet	Tall Shrub	
								Quaking Aspen	Trace	>20 feet	Pole	
								Black Cherry	Low	Variable	Tall Shrub	
								Balsam Fir	Trace	>20 feet	Log	
White Pine	Trace	Variable	Sapling									
White Ash	Trace	Variable	Sapling									
44	4130 - Aspen	Sapling Well	43.8	5	Immature	N/A	This stand was clearcut in 2017-18 in the sale Bird Tally Aspen sale (53-008-15-01). Aspen has regenerated well. Browse impacts are moderate at this point. The majority of the quaking aspen looks fine but the bigtooth has been heavily browsed. Based on stumps and old imagery, a lot of hardwoods were cut out of this stand but browse has eliminated most species other than trace amounts of beech and ironwood. A few scattered white pine and basswood were left, along with a small retention pocket in the middle of the stand. Another area of retention was left at the south edge of the stand, adjacent to the lowland stand. There is a healthy 29" elm that was left in the middle of the stand, just south of the interior retention pocket. A wet drainage runs southwest to northeast, in the northwest part of the stand, and dumps into stand 40. This drainage was not protected or excluded from the harvest.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Cherry	5	Sapling	1	
								Basswood	1	Log/XLog	16	
								Bigtooth Aspen	10	Sapling	1	
								White Pine	1	Pole/Sap/Log	6	
								Quaking Aspen	83	Sapling	1	5
Sub-Canopy Species	Density	Avg. Height	Size									
Black Cherry	Medium	5 - 10 feet	Tall Shrub									
Red Maple	Low	< 5 feet	Seeding									
45	4119 - Mixed Northern Hardwoods	Sawtimber Well	27.4	105	51-80	N/A	Moderate quality hardwoods with a large component of over-mature aspen. A lot of the hardwoods are multi-stemmed trees. Many of the aspen have senesced or are close to it, and are providing excellent wildlife benefits (snags, cavities, coarse woody debris). No sale records were found but it looks like this stand had a heavy partial harvest at one time as there are multiple areas throughout the stand with lower BAs. Ironwood has filled in most of these lower BA areas, however there are a few spots that filled in with sugar maple. The presence of multiple age classes gives this stand an uneven-aged "character" in some places. White ash poletimber used to be prevalent throughout the stand but the majority of it has died from EAB and fallen over. The shrub component, including the autumn olive, is mostly at the far southern end where BAs are lowest in the stand, likely a result of past beaver activity. There are also some moderately steep slopes at the south end of the stand. Trace of balsam fir (pole/sap), paper birch (pole/log), elm (log), black cherry (pole), red maple (log), and white pine (pole/sap). Average ba/acre from 8 plots = 78 square feet. The High Country Pathway travels through the stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	45	Log/Pole	10	105
								White Ash	1	Pole	6	
								Quaking Aspen	17	Log/XLog	16	
								Beech	3	Log/Pole	12	
								Ironwood	4	Pole	5	
								Basswood	30	Log/XLog/Pole	14	105
								Sub-Canopy Species	Density	Avg. Height	Size	
								Serviceberry (Juneberry)	Trace	Variable	Tall Shrub	
								Beech	Low	Variable	Sapling	
								Ironwood	Medium	Variable	Sapling	
								White Ash	Low	>20 feet	Sapling	
Autumn Olive	Trace	5 - 10 feet	Tall Shrub									
Black Cherry	Trace	Variable	Tall Shrub									
Sugar Maple	Low	>20 feet	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
46	4119 - Mixed Northern Hardwoods	Sawtimber Medium	2.8	98	51-80	N/A	Small strip of mature hardwoods. It looks like this stand had a partial harvest long ago, likely at the same time as adjacent stand 39 to the east, which explains the younger aspen and ironwood component in the stand. The bigtooth aspen can be found in a single clone at the far southwestern edge of the stand. Average ba/acre from 4 plots = 73 square feet. This stand was coded as retention for the harvest in adjacent 35. No management.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		7	Pole	8		White Ash		
Balsam Fir		1	Pole/Log	8		Ironwood		
Basswood		5	Log	13		Black Cherry		
Balsam Poplar		1	Pole	8		Sugar Maple		
Paper Birch		1	Pole/Log	8		Beech		
Ironwood		7	Pole/Sapling	5	38	Density		
Bigtooth Aspen		10	Pole/Log	8		Avg. Height		
Sugar Maple		68	Log/Pole/XLog	13	98	Size		
47	2113 - Forage Crops	Nonstocked	5.2		Unspecified	Managed Opening	Planted wildlife opening. A few small clumps of mixed tree species are scattered throughout.	
48	4119 - Mixed Northern Hardwoods	Sawtimber Medium	5.1	105	51-80	N/A	In general, a poorly-stocked stand of large diameter hardwoods. The basswood in particular is very large diameter and good quality, while the sugar maple is more open-grown and wolfy. The south half of the stand has lower stocking and less of a developed understory, while the north half has better stocking and more ironwood in the understory. Not sure of the harvest history of this stand but it looks like it may have had a partial harvest when adjacent stands 39 and 43 were cut in 1985. Trace of paper birch (pole/sap) and beech (log). Average ba/acre from 6 plots = 65 square feet. No reason to cut this, let it grow and hopefully some beneficial hardwoods will seed in one day.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Ironwood		5	Pole	7		Balsam Fir		
Quaking Aspen		17	Log/Pole	11		White Pine		
Sugar Maple		28	Log/XLog/Pole	15		Beech		
Basswood		44	Log/XLog	16	105	Black Cherry		
Bigtooth Aspen		2	Pole/Log	9		Serviceberry (Juneberry)		
White Pine		2	Log/Pole	11		Ironwood		
Balsam Fir		2	Pole	7		Density		
						Avg. Height		
						Size		
49	4130 - Aspen	Poletimber Well	15.2	38	51-80	N/A	Moderate quality aspen stand that is showing excellent growth for its age. Clearcut in 1985 by Dave Bunker & Sons (Fisherman #29, #53-030-85). Regeneration came back well in most places except for a few of the old roads and skid trails. Sugar maple regeneration is present mostly in the northwest part of the stand. A small amount of residual hardwoods were left (log-size red maple, sugar maple, and basswood). There used to be a lot of white ash poletimber throughout the stand but the majority of it is now dead. It appears that beavers removed most of the aspen from the south end of the stand that borders a lowland. What remains are scattered larger diameter hardwoods and a mix of smaller black cherry and ironwood, resembling a U type in places. Serviceberry is most prevalent in the northwest area, with several stems greater than 4" DBH. Trace of elm (pole/sap), white ash (pole), white spruce (pole), and white pine (pole). Average ba/acre from 8 plots = 80 square feet. A large drainage starts in the southwest part of the stand and travels all the way to the north/northeast end. Portions of the drainage are very wet with pit and mound topography.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		2	Pole	6		Balsam Fir		
Red Maple		14	Pole/Log	8		Beech		
Bigtooth Aspen		10	Log/Pole	10		Black Cherry		
Balsam Poplar		5	Pole	8		White Ash		
Paper Birch		4	Log/Pole	10		Serviceberry (Juneberry)		
Basswood		1	Log/XLog	15		Sugar Maple		
Quaking Aspen		56	Pole/Log	8	38	Autumn Olive		
Ironwood		2	Pole	5		White Spruce		
Sugar Maple		6	Pole/Log	8		White Pine		
						Paper Birch		
						Red Maple		
						White Ash		
						Ironwood		
						Hazelnut (American)		
						Density		
						Avg. Height		
						Size		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50	6112 - Lowland Aspen	Sawtimber Medium	7.2	86	51-80	N/A	Poplar dominated stand that sits in somewhat of a bowl with two drainages, one coming from the northwest and one from the north, that eventually converge in the middle and drain south into the adjacent L type. The middle part of the stand where the drainages converge is poorly-stocked with mostly lowland shrubs growing in it, including a nice component of nannyberry. Upland ridges and side-slopes extend into the sides of the stand, which is where most of the sugar maple and basswood is located. Serviceberry is common in the southeast part of the stand, with some stems over 5" DBH. The southeast part also has a pocket of young red maple and aspen. Trace of paper birch (pole) and red pine (pole). Average ba/acre from 5 plots = 64 square feet. No management due to water/BMP concerns.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood	10	Log/XLog	15			Ironwood	Low	Variable	Sapling	
Red Maple	1	Pole/Sapling	5			Paper Birch	Trace	>20 feet	Sapling	
White Pine	1	Log/Pole	14			Beech	Low	Variable	Sapling	
Quaking Aspen	70	Log/Pole/XLog	12	86		White Pine	Trace	Variable	Sapling	
Sugar Maple	5	Log/XLog	14			Balsam Poplar	Trace	Variable	Sapling	
Balsam Poplar	5	Pole/Log	9			Red Maple	Low	>20 feet	Sapling	
Paper Birch	1	Pole	6			Tag Alder	Low	5 - 10 feet	Tall Shrub	
Ironwood	1	Pole	5			Black Cherry	Low	Variable	Tall Shrub	
Balsam Fir	1	Pole	6			Serviceberry (Juneberry)	Low	Variable	Tall Shrub	
Bigtooth Aspen	5	Log/Pole	11			Balsam Fir	Trace	Variable	Sapling	
						Nannyberry	Low	10 - 20 feet	Tall Shrub	

51	629 - Mixed non-forested wetland	Nonstocked	45.9		Unspecified	No	Bird Tally Creek flows through the length of this stand. The creek has been dammed by beavers at various places throughout the stand, although it doesn't appear any of the dams are currently active. Only looked at this stand from a few places along the edges.
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Poplar	Trace	Variable	Sapling				
Tag Alder	Medium	Variable	Tall Shrub				
Red Maple	Trace	Variable	Sapling				
Nannyberry	Trace	Variable	Tall Shrub				
Paper Birch	Trace	Variable	Sapling				
Willow spp.	Low	Variable	Tall Shrub				
White Pine	Trace	>20 feet	Pole				
White Spruce	Trace	Variable	Sapling				
Northern White Cedar	Trace	>20 feet	Pole				
White Pine	Trace	Variable	Sapling				
Balsam Fir	Trace	>20 feet	Pole				
American Elm	Trace	Variable	Sapling				
Red Maple	Low	>20 feet	Pole				
Balsam Fir	Trace	Variable	Sapling				
Paper Birch	Low	>20 feet	Pole				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52	4130 - Aspen	Poletimber Well	14.8	52	111-140	N/A	Aspen stand of varying quality. In some areas the quaking aspen is full of conks and rot, with many stems in decline or already dead. In other areas the quaking aspen is healthy and good quality. There is an excellent sugar maple understory in many parts of the stand, although not uniform throughout, and tends to be most numerous in those areas where the aspen is poor quality. A residual of large diameter hardwoods, mostly sugar maple, is scattered throughout and frequently occurs in small clumps. Many of these stems are large diameter and high quality, but there are also a good amount of wolfy, poor quality trees as well. Serviceberry is common throughout and also tends to occur in clumps, with many stems in the 3-5" DBH range. The south edge of the stand adjacent to the L type had most of the aspen removed by beavers years ago and is now mostly a mix of fir, white pine, and red maple saplings, and U type. The south end also has some moderately steep slopes leading down to the swamp edge. Trace of red maple (log/pole), beech (log/pole), black cherry (pole), white ash (pole), and red pine (pole/sap). Average ba/acre from 11 plots = 111 square feet. Hold one more entry and then treat with stands 39 and 49 to the east. Protect sugar maple regen pockets and leave the supercanopy sugar maple and basswood.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	1	Pole	8		Serviceberry (Juneberry)	Low		>20 feet	Tall Shrub
Balsam Fir	4	Pole/Log	8		White Ash	Trace		Variable	Sapling
Quaking Aspen	59	Pole/Log	8	52	Black Cherry	Trace		Variable	Tall Shrub
White Pine	2	Log/Pole	13		Paper Birch	Trace		>20 feet	Sapling
Balsam Poplar	2	Log/Pole	10		Sugar Maple	High		>20 feet	Sapling
Basswood	1	Log	13		Beech	Low		Variable	Sapling
Sugar Maple	9	Log/Pole/XLog	13		Balsam Fir	Trace		Variable	Sapling
Bigtooth Aspen	18	Log/Pole	10		Ironwood	Medium		Variable	Sapling
Ironwood	4	Pole	5						

53	3303 - Mixed Low Density Trees	Nonstocked	1.1		Unspecified	No	Small, semi-open area that sits on a south-facing slope. Close to being a forested stand as the north half is filling in with balsam fir and white pine, and the south half has some BAM and quaking aspen seeding in. This should qualify as a forested stand next entry.
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Trace	>20 feet	Pole				
Balsam Poplar	Trace	>20 feet	Pole				
White Pine	Trace	>20 feet	Log				
Balsam Poplar	Low	Variable	Sapling				
Quaking Aspen	Low	< 5 feet	Seeding				
Black Cherry	Low	>20 feet	Tall Shrub				
White Pine	Low	>20 feet	Pole				
Sugar Maple	Trace	>20 feet	Pole				
Balsam Fir	Low	Variable	Sapling				
White Pine	Low	Variable	Sapling				
Basswood	Trace	>20 feet	Log				

54	4139 - Aspen, Mixed Deciduous	Sawtimber Well	4.3	78	81-110	N/A	Mixed aspen/red maple stand sitting on relatively steep slopes bordering Bird Tally Creek. Some of the aspen is starting to senesce. Composition shifts to a heavier hardwood component in the west half. A stick nest was found in a 18" quaking aspen in the middle part of the stand. Trace of yellow birch (pole), red pine (log/pole), white spruce (log/pole), and cedar (log/pole). Average ba/acre from 4 plots = 103 square feet. No management due to the steep slopes and proximity to Bird Tally Creek.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	2	Log	12		Red Maple	Low		>20 feet	Sapling
Red Maple	39	Pole/Log	8		Ironwood	Low		Variable	Sapling
Quaking Aspen	43	Log/Pole	13	78	Balsam Fir	Trace		Variable	Sapling
Balsam Fir	3	Pole	7		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
White Pine	2	Log/Pole/XLog	15		White Pine	Trace		Variable	Sapling
Bigtooth Aspen	2	Log/XLog	15		Beech	Medium		Variable	Sapling
Beech	1	Pole	6						
Sugar Maple	8	Pole	7						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
55	4130 - Aspen	Poletimber Well	19.7	42	81-110	N/A	Moderate quality aspen stand with some variability in composition. Beavers removed much of the aspen from areas along the lowland edge, particularly in the west half, which have since filled in with mostly white pine and fir. The far northeast part of the stand has a higher component of red maple and not much aspen. Large diameter residual hardwoods, consisting mostly of maple but with a few birch and basswood, are scattered throughout. A few merchantable white ash are still alive, including a couple over 10" DBH. Autumn olive is encroaching into the parts of the stand that border the U and G types (stands 30 and 59). Trace of elm (pole/log), red pine (log/pole), white spruce (pole), cedar (log/pole), and black cherry (pole). Average ba/acre from 11 plots = 85 square feet. Multiple wet drainages pass through this stand into the lowland stand to the north and can be found at the east and west ends, as well as the central part of the stand (see site conditions layer and leaf-off imagery). The drainage in the middle of the stand is particularly large and sits in a slight depression. Aspen diameters tend to be much larger in these wet areas. Wait until next entry and treat this stand with adjacent stand 57. Exclude all wet areas and drainages.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Poplar	8	Pole	8		Beech	Low		Variable	Sapling
Paper Birch	1	Log/XLog	15		Black Cherry	Low		Variable	Tall Shrub
Sugar Maple	6	Log/Pole/XLog	11		White Ash	Low		Variable	Sapling
Red Maple	5	Pole/Sap/Log	7		Balsam Fir	Low		Variable	Sapling
White Ash	1	Pole	7		Autumn Olive	Trace		5 - 10 feet	Tall Shrub
Balsam Fir	8	Pole/Log	8		Ironwood	Low		Variable	Sapling
Bigtooth Aspen	10	Pole/Log	9		Red Maple	Low		>20 feet	Sapling
Basswood	1	Log/XLog	15		Tag Alder	Low		10 - 20 feet	Tall Shrub
Quaking Aspen	56	Pole/Log	8	42	Serviceberry (Juneberry)	Low		Variable	Tall Shrub
White Pine	4	Log/Pole	12		White Pine	Trace		Variable	Sapling
					Hazelnut (American)	Trace		5 - 10 feet	Tall Shrub
56	42200 - Natural White Pine	Sawtimber Well	4.9	93	171-200	N/A		Small stand of good quality natural pine. Thinned in 1986-87 by Gary Haskill in the sale Grafted H Aspen (#53-010-85). The middle of the stand is heavier to red pine, the remainder is dominated by white pine. A second age class of larger, older trees, including a few legacy white pine, are present throughout the stand but rare overall. Red maple understory is abundant in areas, absent in others. Trace of beech (pole), red maple (pole), and hemlock (log) in the overstory. Average ba/acre from 4 plots = 185 square feet. This stand could be thinned the next time stand 57 is harvested. Retain large diameter trees and manage using uneven-aged techniques.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Balsam Fir	2	Pole	7		Red Maple	Medium	10 - 20 feet		Sapling
White Pine	63	Log/Pole/XLog	14	93	Balsam Fir	Low	Variable		Sapling
Red Pine	35	Log	14		Beech	Medium	Variable		Sapling
					Striped Maple	Trace	Variable		Sapling
					Paper Birch	Trace	>20 feet		Sapling
					White Pine	Low	Variable		Sapling
57	4136 - Aspen, Mixed Conifer	Poletimber Well	33.7	36	81-110	N/A	Moderate quality aspen stand that sits on ground of varying moisture and site quality. Clearcut in 1986-87 by Gary Haskill in the sale Grafted H Aspen (#53-010-85). Aspen regenerated well in most places although there are some scattered areas of nearly pure white pine. Several drainages enter the east half of the stand from the adjacent hardwood stand to the south (#69), eventually combining into one drainage that flows east/northeast into stand 55. Aspen growth in much better in the wet areas, with diameters averaging closer to 8-10" DBH, while being considerably smaller in the drier areas of the stand. There is another wet drainage at the far southwest corner, adjacent to the cedar stand (#61). A few black cherry have good form and will be a part of the overstory. Some merchantable white ash are still alive at this time. A few scattered log-size residual trees are scattered throughout, mostly white pine, red pine, paper birch, and red maple, although there are two 20"+ red oak at the south end of the stand. Trace of log-size elm in the drainages. Average ba/acre from 10 plots = 84 square feet. This stand likely needs two more entries before being ready for a harvest, protect all wet areas at that time.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	7	Pole/Sapling	6		Sugar Maple	Trace		>20 feet	Sapling
Red Pine	3	Pole/Sap/Log	7		White Spruce	Trace		Variable	Sapling
Black Cherry	3	Pole	6		Red Maple	Low		10 - 20 feet	Sapling
White Spruce	1	Pole/Sapling	5		American Elm	Trace		Variable	Sapling
White Ash	1	Pole	5		Balsam Fir	Low		Variable	Sapling
White Pine	15	Pole/Sap/Log	7		Black Cherry	Medium		Variable	Tall Shrub
Sugar Maple	1	Pole/Sapling	5		White Pine	Low		Variable	Sapling
Red Maple	5	Pole/Sap/Log	5		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
Bigtooth Aspen	5	Pole/Log	8		Ironwood	Low		Variable	Sapling
Quaking Aspen	51	Pole/Sap/Log	6	36	White Ash	Trace		Variable	Sapling
Balsam Poplar	8	Pole	6		Beech	Low		Variable	Sapling
					Tag Alder	Trace		10 - 20 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58	4111 - S.Maple, Hard Mast Association	Sawtimber Well	35.2	105	81-110	N/A	<p>Large diameter hardwoods that had a heavy partial harvest many years ago which removed most of the aspen. A few remaining aspen can be found along the south and west edges of the stand. The residual hardwoods are not the best quality, with the exception of the basswood, and most are stump sprouts. There are, however, a good amount of large diameter trees over 20" DBH. Stocking is very irregular due to the species removal. Regeneration came back to a mix of hardwoods, some areas with a lot of undesirables (beech & ironwood) but there are also several areas where sugar maple regenerated well. White ash regenerated well too but a lot of the stems that were approaching merchantability are dead, with the exception of a few poletimber stems that still appear alive. Trace of red pine (log/pole), white spruce (log/pole), elm (pole), and balsam fir (pole). Average ba/acre from 10 plots = 83 square feet. Rolling terrain that slopes down to the north. A small drainage runs north along the west side of the stand. Vernal pools and areas of wet ground are in the northeast part of the stand, forming a drainage that flows northeast into the adjacent Compartment. No management needed for quite some time. Eventually another partial harvest of the overstory could be done, releasing some of the better pockets of younger sugar maple.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		37	Log/XLog/Pole	15		Autumn Olive		Trace	5 - 10 feet	Tall Shrub	
Red Maple		4	Log/XLog	14		Red Maple		Trace	>20 feet	Sapling	
Sugar Maple		39	Log/XLog/Pole	14	105	White Ash		Medium	< 5 feet	Seeding	
Beech		13	Log/Pole/XLog	14		White Ash		Low	>20 feet	Sapling	
White Pine		1	Log/Pole	14		Balsam Fir		Trace	Variable	Sapling	
White Ash		1	Pole	6		Ironwood		Medium	Variable	Sapling	
Quaking Aspen		4	Log/Pole	12		Serviceberry (Juneberry)		Trace	>20 feet	Tall Shrub	
Balsam Poplar		1	Log/Pole	11		Sugar Maple		Medium	>20 feet	Sapling	
						Witch Hazel		Trace	10 - 20 feet	Tall Shrub	
						Beech		Medium	Variable	Sapling	
						White Pine		Trace	Variable	Sapling	
						Black Cherry		Low	Variable	Tall Shrub	

59	2113 - Forage Crops	Nonstocked	12.1		Unspecified	Managed Opening	Managed wildlife opening.
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60	6239 - Mixed Emergent Wetland	Nonstocked	23.0		Unspecified	No	This was previously a flooded beaver pond for a long period of time based on old imagery, however the dam has recently been breached and most of the water has drained, leaving a wide open wetland that is mostly sedge and cattails, with a little reed canary grass as well. Bird Tally Creek flows through the length of the stand.
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61	6120 - Lowland Cedar	Sawtimber Well	2.3	119	201+	N/A	<p>Small stand of dense, high quality cedar. There are a few small pockets of blowdown but most standing cedar are healthy. This stand does not appear too wet although it's clear that it is a seasonal drainage as it slopes down to the west. Trace of BAM (pole/log) in the overstory. Average ba/acre from 3 plots = 243 square feet.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		2	Log	14		Beech		Trace	Variable	Sapling	
Northern White Cedar		89	Log/Pole/XLog	11	119	Balsam Fir		Trace	Variable	Sapling	
Basswood		1	Log	15							
Red Maple		3	Log	12							
Yellow Birch		4	Log/Pole	12							
Paper Birch		1	Log	12							



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62	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	4.7	93	51-80	N/A	Small pocket of hardwoods on seasonally wet ground which drains to the northeast into stand 22. There has been a lot of mortality and blowdown which has led to poor stocking, particularly in the middle of the stand, and it appears that most of the fallen over stems were white ash. Average ba/acre from 5 plots = 70 square feet. No management due to the wet soils.																																																																		
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63	6132 - Mixed Lowland Forest with Cedar	Sawtimber Poor	4.3	119	51-80	N/A	Very wet seep in the south half which turns into a more defined drainage/intermittent stream in the north half. Poorly stocked in most areas as this stand used to be dominated by white and black ash, which are all dead now due to EAB. The south end of the stand has better stocking and is where all of the cedar is located, most of which is healthy, and also where most of the yellow birch can be found. Average ba/acre from 5 plots = 56 square feet. Too wet for management.																																																																		
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64	2113 - Forage Crops	Nonstocked	8.4		Unspecified	Managed Opening	Managed wildlife opening.																																																																		
65	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.7	52	81-110	N/A	This stand was originally part of stand 34 to the west in Compartment 13 but was excluded from that harvest and left as retention. Separated out as a new stand because species composition looks quite different from stand 34, with more hardwoods and not nearly as much aspen. I'm guessing beavers removed most of the aspen long ago. There is a large non-forested area near the middle part, not sure why this area didn't regenerate. The majority of the stand sits on moderately steep slopes overlooking the adjacent lowland. The High Country Pathway passes through a large part of the stand.																																																																		
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66	4134 - Aspen, Spruce/Fir	Sawtimber Well	1.8	61	201+	N/A	Mature aspen in a stand that is split into 3 parts because of the surrounding food plot. Aspen is generally good quality although there are some trees with a lot of rot. Better site quality in the two "bubbles" with most of the hardwoods in these 2 areas. Nice serviceberry component in the eastern-most bubble. Trace of white spruce (pole) and basswood (pole). Average ba/acre from 4 plots = 233 square feet. The western strip of the stand can be managed with stand 90 if that is cut in the future. The two bubbles should probably just be left alone as they would be very susceptible to browse damage if clearcut.																																																																		
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67	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	10.3	93	1-50	N/A	Long, wet drainage. The south half is barely forested and is more of a wetland in most places. Black ash used to be the primary species in this part of the stand but is now all dead. A few clumps of cedar are present along the edges. The north half of the stand becomes narrow with mostly maple and basswood in the overstory. The drainage forms into a stream channel throughout most of the north half before widening out into more of a seep before it hits the food plot. Average ba/acre from 8 plots = 40 square feet.																																																																										
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68	6118 - Lowland Deciduous with Cedar	Poletimber Poor	5.9	115	1-50	N/A	Very wet stand that is basically a large drainage/seep. Poorly-stocked in most areas as this stand used to be dominated by white and black ash but both of those species are now all dead due to EAB. Some scattered clumps of cedar throughout but the majority of the stems are in decline or already dead. Some cedar was harvested from this stand long ago as there are some random cut stumps, all in the southern half. The quaking aspen is mostly in a small clump in the middle part of the stand, towards the west side. Understory regeneration is very limited except for some areas of decent black ash regen in the middle portion. Average ba/acre from 5 plots = 26 square feet. Too wet for management.																																																																										
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69	4110 - Sugar Maple Association	Sawtimber Well	215.3	105	81-110	N/A	High quality hardwood stand that was thinned in 2009 in the sale Bird Tally Hardwoods (#53-005-05, Weyerhaeuser). Rolling terrain with some steep slopes. Several seeps and drainages are present, mostly in the north half of the stand (see site conditions layer and leaf-off imagery). Some of these were excluded from the harvest, and these areas are where you can find most of the aspen, yellow birch, and red maple. Small clumps of cedar are present in some of the drainages as well. Trace of white pine (log/pole), paper birch (log/pole), black cherry (pole), balsam fir (pole), cedar (log/pole), and hemlock (log). Average ba/acre from 13 plots = 103 square feet. The High Country Pathway travels through the southwest part of the stand. It will be 2 more entries before this stand is ready for another harvest.																																																																										
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70	3301 - Low Density Deciduous Trees	Nonstocked	1.2		Unspecified	No	Scattered sugar maple, red maple, and basswood along the edges. Recently used as a landing for the clearcut in stand 44. Piles of full length trees are were left scattered along the edges.																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
71	4110 - Sugar Maple Association	Sawtimber Well	120.2	107	111-140	N/A	Nice hardwood stand. Last thinned in 1999-2000 in the sale Happy Hiker Hardwood (#53-001-96, AJD). BAs tend to be variable, some areas were thinned hard while there are a few spots that either were missed or were excluded from the harvest, such as the far southern end and areas along the west side. Although rare, there is a second age class of larger, older trees (mostly 18"+ sugar maple) scattered throughout. Most beech in the stand have BBD and are close to death although I did find a few that appear to be resistant. Trace of yellow birch, paper birch, white pine, elm, and red oak in the overstory. Average ba/acre from 24 plots = 120 square feet. Rolling terrain with some steep, inoperable slopes at the northeast side of the stand (see site conditions layer). The High Country Pathway passes through the northern half of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Beech		4	Log/XLog/Pole	13		Ironwood		Medium	5 - 10 feet	Sapling	
Ironwood		1	Pole	5		White Ash		Medium	5 - 10 feet	Sapling	
Red Maple		2	Log/Pole	11							
Sugar Maple		56	Log/Pole/XLog	11	107						
Basswood		37	Log/XLog	14							
72	4110 - Sugar Maple Association	Sawtimber Well	107.6	93	111-140	N/A	High quality hardwood stand that doesn't have any records of a past harvest. Numerous water influences throughout the stand as there are several seeps and drainages that connect with the wet lowland stands that are present in the interior of the stand. A good component of healthy yellow birch is present, more common in and around the wet areas. Lots of large diameter beech and aspen trees with rot and cavities, providing good wildlife habitat. The aspen component is mostly along the west and north edges of the stand. A second age class of large diameter, older sugar maple is present but rare overall. The beech understory becomes thicker as you head south in the stand. Trace of elm (pole/log), balsam fir (pole/log), cedar (pole/log), paper birch (pole/log), and white ash (pole) in the overstory. Average ba/acre from 17 plots = 133 square feet. Rolling terrain with some steep slopes present, mostly in the east/southeast part of the stand. No management due to the water influences and potential ERA quality.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Ironwood		1	Pole	6		White Ash		Trace	5 - 10 feet	Sapling	
Sugar Maple		49	Log/Pole	11	93	Beech		High	Variable	Sapling	
Bigtooth Aspen		1	XLog/Log	18		Ironwood		Low	Variable	Sapling	
Basswood		34	Log/XLog/Pole	14		Striped Maple		Trace	10 - 20 feet	Sapling	
Yellow Birch		5	Log/Pole	12							
Beech		6	Log/XLog/Pole	15							
Quaking Aspen		2	Log/XLog	16							
Red Maple		2	Log	13							
73	3105 - Mixed Upland Herbaceous	Nonstocked	0.9		Unspecified	No		Small opening in the middle of hardwoods, most recently used as a landing for the adjacent hardwood stands to the west. Lots of snow on the ground at time of inventory, but it looks like this is mostly just bracken fern. Some goldenrod was observed as well.			
Sub-Canopy Species		Density	Avg. Height	Size							
Sugar Maple		Low	>20 feet	Log							
Bracken Fern		Medium	Unspecified	Non-Wood							
74	4130 - Aspen	Poletimber Well	6.1	46	111-140	N/A	Moderate quality aspen stand with a good component of sugar maple. This stand was manually cut by DNR personnel in 1977. I'm guessing the amount of downed trees limited deer and elk browse, enabling the hardwood component to regenerate successfully. A small vernal pool is present at the southwest edge. A drainage connected to this vernal pool appears to extend to the north/northeast into the middle of the stand. Average ba/acre from 6 plots = 123 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Ironwood		3	Pole/Sapling	5		Sugar Maple		Medium	>20 feet	Sapling	
Red Maple		4	Pole	6		Red Maple		Low	>20 feet	Sapling	
Quaking Aspen		70	Pole/Log	8	46	Beech		Trace	Variable	Sapling	
Sugar Maple		18	Pole/Sapling	6		Red Oak		Trace	>20 feet	Sapling	
Red Oak		1	Pole/Log	8		Ironwood		Medium	>20 feet	Sapling	
Black Cherry		2	Pole	7							
White Ash		1	Pole	6							
Basswood		1	Pole	6							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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75	4133 - Aspen, Mixed Pine	Poletimber Well	15.0	36	81-110	N/A	Developing aspen stand that was clearcut in 1987 by Gary Haskill. There is a lot of variability in composition as aspen did not regenerate well in all areas of the stand, likely due to browse. The north half of the stand has a heavy component of white pine without much aspen. Aspen becomes dominant in the south half. Aspen diameters vary considerably, some areas are just over merchantability. Trace of residual red oak in the log/xl-log size classes, mostly at the far southern end. Trace of white spruce and beech poletimber. Average ba/acre from 10 plots = 84 square feet. This stand may potentially be ready for a harvest in 10 years.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		23	Pole/Log	8		Black Cherry		Medium	Variable	Tall Shrub	
Red Pine		3	Pole/Sapling	6		Red Pine		Trace	Variable	Sapling	
Ironwood		3	Sapling	3		Red Maple		Low	>20 feet	Sapling	
Red Oak		2	Pole/Sapling	5		Balsam Fir		Low	Variable	Sapling	
Quaking Aspen		43	Pole/Sapling	6	36	Sugar Maple		Trace	>20 feet	Sapling	
Bigtooth Aspen		14	Pole	7		Ironwood		Medium	Variable	Sapling	
Balsam Fir		8	Pole/Log	8		Serviceberry (Juneberry)		Low	10 - 20 feet	Tall Shrub	
Sugar Maple		1	Sapling	4		White Pine		Medium	Variable	Sapling	
Red Maple		3	Pole/Sapling	5							

76	4130 - Aspen	Poletimber Well	42.4	47	81-110	N/A	Nice aspen stand with an excellent understory of hardwoods, many of which are starting to recruit into the overstory. Sugar maple is ubiquitous throughout the understory, although it seems to be slightly less abundant in the west half of the stand. Ironwood is more common in the west half than the east. Many white ash stems that are greater than 5" DBH have died due to EAB but there are still a good amount that appear healthy and alive. A small amount of paper birch can be found mostly at the south/southwest end of the stand. The black cherry that have reached the overstory are good form and have potential for sawlog quality in the future. A good representation of young basswood is present in some areas, a rare sight to see in the PRC. Trace of red maple (pole), paper birch (pole), red pine (log), white pine (log), and elm (pole). Average ba/acre from 17 plots = 110 square feet. No wet areas were found in the stand. Flat to gently rolling terrain. A dry sinkhole, about 20-25 feet deep, is present on the east edge, just south of the narrow north-running finger of the stand. This would be a good candidate to allow the aspen to senesce and convert to hardwoods due to the abundant hardwood understory.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		1	Pole	7		Basswood		Low	>20 feet	Sapling	
White Ash		4	Pole	6		Beech		Low	Variable	Sapling	
Black Cherry		2	Pole	6		White Ash		Low	>20 feet	Sapling	
Basswood		1	Pole/Sapling	5		American Elm		Trace	>20 feet	Sapling	
Sugar Maple		15	Pole/Sapling	6		Ironwood		High	>20 feet	Sapling	
Bigtooth Aspen		25	Log/Pole	10		Paper Birch		Trace	>20 feet	Sapling	
Quaking Aspen		48	Pole/Log	8	47	Sugar Maple		Full	>20 feet	Sapling	
Ironwood		4	Pole/Sapling	5		Black Cherry		Trace	>20 feet	Sapling	
						Red Maple		Trace	>20 feet	Sapling	

77	3105 - Mixed Upland Herbaceous	Nonstocked	1.8		Unspecified	No	Small, meandering opening that is filling in with BAM and quaking aspen, although the quaking aspen is being browsed pretty hard. Terrain is somewhat undulating, almost looking like pit and mound topography, and there are a few large rocks/boulders scattered throughout.
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Poplar		Low	< 5 feet	Seeding			
White Pine		Trace	Variable	Sapling			
White Pine		Trace	>20 feet	Log			
Ironwood		Trace	< 5 feet	Seeding			
Black Cherry		Low	>20 feet	Tall Shrub			
Quaking Aspen		Low	< 5 feet	Seeding			
Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																														
78	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.8	28	51-80	N/A	Wide mix of species in the stand. The east half has most of the red pine and maple. The west half has more of the aspen and some areas with a lot of ironwood. The oak residual is high quality and large diameter. There are a few oak poletimber and saplings that regenerated and are in the overstory (roughly 2%, MiFI wouldn't allow them to be put in the overstory data). Trace of balsam fir poletimber and white pine XL-log trees. Average ba/acre from 5 plots = 74 square feet. Manage with stand 41 to the south in Compartment 32.																																																																														
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79	4110 - Sugar Maple Association	Sawtimber Well	27.4	105	81-110	N/A	This stand was thinned in the fall/winter of 2020-21 in the sale High Country Hardwoods (53-016-15). Bought by Precision. Some areas of residual damage. Retention area left in an area with a stick nest. High quality stand for the most part. Average residual ba/acre = 93 square feet.																																																																														
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80	4110 - Sugar Maple Association	Sawtimber Well	105.5	105	81-110	N/A	This stand was thinned in the fall/winter of 2020-21 in the sale High Country Hardwoods (53-016-15). Bought by Precision. Some areas of residual damage. A few small areas of rutting as well, mainly at the west end near the haul road. A lot of beech was removed from the stand. A few small canopy gaps were made in areas that were pure beech. Some retention areas left along steep slopes and areas with stick nests. Average residual ba/acre = 87 square feet.																																																																														
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81	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.0	87	81-110	N/A	Diverse, variable stand. Two age classes present; older hardwoods and white pine, and then a younger component of aspen, birch, and fir. Stocking is variable with BAs less than 50 square feet in some areas. A small ravine runs east-west through the south half of the stand. Average ba/acre from 4 plots = 83 square feet. Successful regeneration of hardwoods is doubtful in this stand due to the browse pressure. Let this stand continue to grow and manage for mixed hardwoods/conifers using two-aged or uneven-aged techniques.																																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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82	4199 - Other Mixed Upland Deciduous	Poletimber Medium	4.6	52	51-80	N/A	Multi-species, two-aged stand that had a partial harvest long ago. A small amount of larger diameter, older basswood and sugar maple are scattered throughout. New ingrowth since the last harvest has been primarily sugar maple, aspen, and ironwood. The aspen is mostly in the narrow finger that extends to the northeast and along the southeast edge. Poorly-stocked areas are scattered throughout and are where most of the fir and white pine are located. A few areas in the middle of the stand have a good representation of paper birch. Average ba/acre from 7 plots = 64 square feet. Let this stand continue to grow and manage for mixed hardwoods and pine. Even-aged techniques are not recommended due to the high browse pressure in this area.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		23	Pole/Log	8	52	White Pine		Low	Variable	Sapling	
Balsam Fir		3	Pole/Log	8		Balsam Fir		Trace	Variable	Sapling	
White Pine		6	Log/Pole	12		Black Cherry		Low	>20 feet	Tall Shrub	
Ironwood		7	Pole/Sapling	5		Paper Birch		Trace	>20 feet	Sapling	
Bigtooth Aspen		4	Pole/Log	8		Ironwood		High	>20 feet	Sapling	
Sugar Maple		41	Pole/Log/Sap	8	52	Sugar Maple		Low	>20 feet	Sapling	
Basswood		9	Log/XLog/Pole	14	87	Beech		Low	Variable	Sapling	
Beech		2	Log/Pole	11							
Paper Birch		5	Pole	8							

83	2113 - Forage Crops	Nonstocked	0.9		Unspecified	Managed Opening	Planted wildlife opening.
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84	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.4	52	81-110	N/A	Excellent young hardwood stand sitting on a moderately steep east facing slope. This stand almost resembles an old seed-tree cut as there are scattered older sugar maple and basswood throughout the stand. Paper birch becomes dominant in some areas along the mid-slope. Aspen is primarily along the east and west edges, although most of the aspen on the southeast side is now dead. Probably the best young basswood component I've seen in a stand in the PRC. Although rare, the pin cherry is about 5-7 inches in diameter. Average ba/acre from 7 plots = 107 square feet. This stand will be available for a thinning treatment in 10 or 20 years, protect the paper birch component.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		1	Pole	8		Beech		Low	Variable	Sapling	
White Spruce		1	Log/Pole	11		Paper Birch		Low	>20 feet	Sapling	
Sugar Maple		35	Pole/Sap/Log	8	52	Ironwood		Medium	Variable	Sapling	
Black Cherry		1	Pole	6		Black Cherry		Trace	>20 feet	Tall Shrub	
Paper Birch		18	Pole/Sapling	7		Serviceberry (Juneberry)		Trace	>20 feet	Tall Shrub	
Basswood		16	Pole/Log	9		Sugar Maple		Medium	>20 feet	Sapling	
Quaking Aspen		12	Pole/Log	8		Pin Cherry		Trace	>20 feet	Tall Shrub	
Balsam Fir		4	Pole/Log	8							
White Pine		3	Log/Pole	13							
Ironwood		9	Pole/Sapling	5							

85	4139 - Aspen, Mixed Deciduous	Sawtimber Well	2.7	77	81-110	N/A	Buffer strip along a stream that was left uncut after adjacent aspen stands were clearcut over several entries. Very large aspen but not well-stocked as several of them have fallen down over the years. The hardwoods in the stand are generally not good quality. There appears to be a narrow swath of wet ground running north-south through the middle of the stand. The remainder is dry. Average ba/acre from 4 plots = 95 square feet. Beavers have dammed the adjacent L type near the southeast corner of the stand and it looks like some water may be backing up into this portion of the stand. Do not manage. This serves well as a stream buffer.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		9	Pole	6		Red Maple		Low	>20 feet	Sapling	
White Spruce		8	Pole/Log/XLog	8		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
Paper Birch		8	Log/Pole	10		Beech		Medium	Variable	Sapling	
Sugar Maple		9	Pole/Log	8		Balsam Fir		Medium	Variable	Sapling	
Bigtooth Aspen		4	XLog/Log	19		Ironwood		Low	Variable	Sapling	
Red Maple		20	Pole/Log	9		White Spruce		Trace	Variable	Sapling	
Quaking Aspen		39	Log/XLog	17	77	White Ash		Low	Variable	Sapling	
Basswood		2	Log/Pole	11		Black Cherry		Trace	Variable	Tall Shrub	
White Ash		1	Pole	5		Hazelnut (American)		Low	5 - 10 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
86	4199 - Other Mixed Upland Deciduous	Poletimber Medium	4.8	47	81-110	N/A	Variable two-aged stand that is a mix of mature hardwoods and younger aspen. Stocking is not consistent with some small non-forested areas scattered throughout. The aspen is primarily in the middle part of the stand and a second age class of older aspen is also present, although much less common. This stand had a partial harvest at the same time as stand 25 and other openings in the Compartment. A few small clumps of sugar maple regeneration are present, mostly along the edges. Trace of paper birch (pole) in the overstory. Average ba/acre from 5 plots = 88 square feet. A treatment could potentially be considered next entry if the adjacent hardwood stand is prescribed for a harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		15	Log/XLog	15		White Pine		Trace	Variable	Sapling	
Ironwood		5	Pole	5		Black Cherry		Trace	Variable	Tall Shrub	
Balsam Poplar		2	Pole	7		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
Beech		6	Pole/Log	8		Ironwood		Medium	Variable	Sapling	
Bigtooth Aspen		39	Pole/Log	9	47	Autumn Olive		Trace	5 - 10 feet	Tall Shrub	
Balsam Fir		7	Pole/Log	8		Beech		Medium	Variable	Sapling	
Sugar Maple		21	Log/Pole/XLog	13	97	Red Maple		Trace	>20 feet	Sapling	
White Pine		5	Log/Pole	13		Balsam Fir		Trace	Variable	Sapling	
						Sugar Maple		Low	>20 feet	Sapling	
87	4130 - Aspen	Sawtimber Well	2.0	47	81-110	N/A		Moderate to low quality quaking aspen stand that was clearcut in 1976 by DNR staff, along with adjacent stands 33 and 91. A few residual red maple and sugar maple are scattered throughout, including a handful of trees greater than 20" DBH. Well developed maple understory in most places of the stand. Average ba/acre from 4 plots = 90 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Balsam Fir		4	Pole	7		Red Maple			High	>20 feet	Sapling
Sugar Maple		3	Log	13		Balsam Fir			Low	Variable	Sapling
White Pine		2	Pole/Log	9		Paper Birch			Trace	Variable	Sapling
Quaking Aspen		77	Log/Pole	10	47	Black Cherry			Trace	Variable	Tall Shrub
Red Maple		14	Pole/Sap/Log	7		Beech			Low	Variable	Sapling
						Sugar Maple			Medium	>20 feet	Sapling
						White Pine			Trace	Variable	Sapling
88	4139 - Aspen, Mixed Deciduous	Poletimber Poor	17.3	38	51-80	N/A	This stand was clearcut at the same time as adjacent stand 3 to the north and was heavily impacted by browse. It is pretty much just a few scattered clones of aspen alternating with some scattered areas of ironwood/beech/cherry and then non-forested areas. This stand appears to sit on a good site and was undoubtedly a hardwood stand at one time, there are a few scattered residual sugar maple and beech which attest to that. It's unclear how many of the cherry stems will become merchantable form, as of now a lot of it only looks shrub quality. A couple of nice pin cherry are present in the narrow middle part of the stand next to the road. Trace of white spruce (pole/log) and red oak (pole) in the overstory. Average ba/acre from 12 plots = 55 square feet. The road that traverses this stand is extremely rutted (close to 3' ruts) in most places from the recent clearcut that took place further to the north in stand 5. There appears to be a clay lense in the soil which didn't help if hauling was done in wet weather. Not sure what to do with this stand in terms of management. Successful regeneration is very unlikely due to the poor stocking and continued high browse pressure in this area. Maybe hope that additional trees will fill in the gaps over the years. It would also be a good candidate for interplanting with mast producing trees and shrubs in the non-forested areas.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Paper Birch		1	Pole/Sapling	5		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
White Pine		1	Pole/Log	8		Sugar Maple		Trace	>20 feet	Sapling	
Beech		10	Sapling/Pole	3		Pin Cherry		Trace	>20 feet	Pole	
Sugar Maple		7	Sapling/Pole/Log	4		Beech		Medium	Variable	Sapling	
Balsam Fir		3	Pole/Log	8		Autumn Olive		Trace	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		33	Pole/Log	8	38	Paper Birch		Trace	>20 feet	Sapling	
Black Cherry		8	Pole/Sapling	5		Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub	
Ironwood		16	Sapling/Pole	3		White Ash		Trace	Variable	Sapling	
Quaking Aspen		21	Pole	7		Black Cherry		High	Variable	Tall Shrub	
						Ironwood		High	Variable	Sapling	
						Balsam Fir		Trace	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
89	4110 - Sugar Maple Association	Poletimber Well	30.5	93	111-140	N/A	Moderate to high quality hardwood stand. The best quality and stocking are in the northeast 1/3rd of the stand. Quality and stocking decline somewhat as you get closer to the closed road on the west edge. Although rare, there is a second age class of older sugar maple greater than 18" DBH. Most of the largest diameter beech have already died from BBD, providing good wildlife habitat. Trace of ironwood (pole) and red oak (sapling). Average ba/acre from 11 plots = 124 square feet. Mostly flat terrain. The only record of a previous harvest is an aspen removal harvest from the 1970's.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	59	Pole/Log/XLog	8	93	Ironwood	Trace		Variable	Sapling
Basswood	35	Log/Pole/XLog	13		Beech	High		Variable	Sapling
Beech	5	Log/XLog	15						
American Elm	1	Log	13						
90	42330 - Upland Fir	Poletimber Well	3.9	36	51-80	N/A	Narrow stand dominated by balsam fir that sits on an upland/lowland transition. This stand was clearcut in 1986-87, at the same time as stands 56 and 57, in the sale Grafted H Aspen (#53-010-85). It looks like there used to be more aspen but beavers removed most of it over the years. There are a few poorly-stocked areas with a lot of cherry and some BAM saplings. Two XL-sized red oak can be found in the middle of the stand. Tamarack and spruce are more common in the south half of the stand, along the west edge closer to the lowland wetland. A wet drainage (possibly a stream?) in a depression passes through the far northeast part of the stand. Average ba/acre from 5 plots = 60 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	1	Pole	8		Black Cherry	Medium		Variable	Tall Shrub
Tamarack	5	Pole	7		White Spruce	Trace		Variable	Sapling
Red Maple	5	Pole/Sapling	6		Balsam Poplar	Low		5 - 10 feet	Sapling
Black Spruce	2	Pole	6		Tag Alder	Low		10 - 20 feet	Tall Shrub
Quaking Aspen	6	Pole	7		Ironwood	Trace		Variable	Sapling
White Spruce	3	Pole	6		Red Maple	Low		>20 feet	Sapling
Balsam Fir	70	Pole/Log	8	36	Balsam Fir	High		Variable	Sapling
Red Oak	1	XLog	20						
White Pine	6	Pole/Log	8						
Black Cherry	1	Pole	6						
91	4199 - Other Mixed Upland Deciduous	Poletimber Well	2.4	47	51-80	N/A	Highly variable stand that was manually cut by DNR staff in 1976 along with adjacent stand 33. Regeneration came back to a mix of species. Quaking aspen is primarily in the middle part of the stand and is low quality. The eastern third of the stand is a mix of maple, BAM, ironwood, and cherry. The west end of the stand is mostly younger red and sugar maple with a small pocket of mature bigtooth aspen. There are some scattered larger diameter red and sugar maple that were left as residual, giving the stand a two-aged appearance in places. Average ba/acre from 5 plots = 76 square feet. Let the young maple component continue to grown and manage for hardwoods.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1	Pole/Log	8		Beech	Low		Variable	Sapling
Balsam Poplar	8	Pole	8		Ironwood	Medium		>20 feet	Sapling
Bigtooth Aspen	4	Log	13		Balsam Fir	Low		Variable	Sapling
Ironwood	8	Pole/Sapling	5		White Pine	Trace		Variable	Sapling
Black Cherry	2	Pole	5		Red Maple	Medium		>20 feet	Sapling
Quaking Aspen	22	Pole/Log	8		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
Red Maple	21	Pole/Sap/Log	7		Black Cherry	Low		Variable	Tall Shrub
Sugar Maple	32	Pole/Sap/Log	7	47	Sugar Maple	Medium		>20 feet	Sapling
Balsam Fir	2	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
92	4193 - Birch, Aspen	Sapling Medium	3.2	25	Immature	N/A	This stand was clearcut along with adjacent stand 22 in the sale Beaverville Aspen (Georgia Pacific, #53-007-95). It was heavily disturbed during logging operations with old ruts still evident (see 98DOQ and newer leaf-off imagery) and did not regenerate as well as stand 22. It is slowly recovering and has a good amount of paper birch that is regenerating, more abundant in the south half of the stand. Balsam poplar is filling in areas of the north half. A few quaking aspen are scattered throughout. High elk use in the stand and browse has impacted some of the paper birch, but the majority have made it above the browse line. This stand is a toss-up between upland and lowland as it appears seasonally wet on imagery but did not appear to be very wet when doing inventory. Visit again next entry to see how the regeneration is doing.																																													
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93	320 - Upland Shrub	Nonstocked	1.3	0	Unspecified	No	This was the landing when stand 22 to the north was clearcut. There appears to be some wet ground in the stand. Quaking aspen is seeding in but they are being browsed pretty heavily. 3 crabapples have been planted in the stand and are protected with fencing.																																													
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95	320 - Upland Shrub	Nonstocked	1.2		Unspecified	No	Roughly 10 crabapple trees (with fences) have been planted in this stand along the south side. Quaking aspen seedlings are encroaching into the north half of the stand after the recent clearcut in stand 29. A small depression is present in the middle of the stand, not sure what this is from?																																													
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96	4119 - Mixed Northern Hardwoods	Sawtimber Medium	2.9	77	1-50	N/A	Small mixed hardwood stand that was presumably left as a buffer when stand 22 to the west was clearcut. Poorly-stocked in many places. The quaking aspen is large and close to death. Ash and hazelnut are abundant in the understory of the south half. The north half has more beech and ironwood in the understory. Average ba/acre from 4 plots = 50 square feet. Most of this stand sits on an upland/lowland transition. A small stream flows east through the middle of the stand, joining the larger stream to the east in stand 18. No management as this stand serves well as a buffer for the adjacent streams.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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97 6239 - Mixed Emergent Wetland Nonstocked 3.2 Unspecified No Periodic beaver flooding, presently not flooded.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Willow spp.	Low	< 5 feet	Sapling
Mixed Grasses	High	Unspecified	Non-Wood
Cattail spp.	Low	Unspecified	Non-Wood

98 4119 - Mixed Northern Hardwoods Poletimber Well 2.1 77 81-110 N/A Narrow strip of mostly hardwood not included in cutting of stand 5 for lower aspen component.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	3	Pole	8		Ironwood	Low	10 - 20 feet	Sapling
Quaking Aspen	10	Log	14		Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	40	Pole	8	77				
Basswood	5	Log/Pole	10					
Paper Birch	25	Log/Pole	10	77				
Sugar Maple	17	Pole	8					

100 6112 - Lowland Aspen Sawtimber Well 6.1 83 51-80 N/A Mature Aspen/conifer stand along Grindstone Creek. Some areas with springs making the ground very wet. Falls with Natural River zone so no management.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Log	14		Balsam Fir	Medium	>20 feet	Sapling
Red Maple	15	Pole	9		Red Maple	Low	>20 feet	Sapling
Quaking Aspen	55	Log	14	83				
Balsam Fir	20	Log	12					
Paper Birch	5	Log	12					