



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53049

Entry Year 2023

Acreage: 1,647

County Otsego

Management Area: Pigeon River Country

Revision Date: 2021-05-17

Stand Examiner: Greg Rekowski

Legal Description:

T31N R01W Sections 1, 12, and 13

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:

Very flat topography typifies this Compartment. Uplands are dominated by excessively drained soils with Rubicon sands and Lindquist sands being the most common. Lowlands are dominated by organic soils such as Tawas and Lupton mucks, Tawas-Leafriver muck, and Ausable-Bowstring muck. The southern portion of Section 13 includes a complex mixture of uplands that are interspersed with small pockets of lowlands.

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

Mostly undeveloped private parcels are intermixed in Sections 1 and 12. Section 13 is under entire State ownership but borders private land along the eastern and southern boundaries.

Unique Natural Features:

The little brown bat is known to occur in this Compartment.

Archeological, Historical, and Cultural Features:

None identified.

Special Management Designations or Considerations:

None identified.

Watershed and Fisheries Considerations:

The mainstream of the Black River flows through Section 1. Tubbs Creek and Hodge Creek flow north through Sections 12 and 13. Both the Black River and Tubbs Creek are considered "cold water streams".

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. The nearest active sand/gravel operation is over six miles away. There might be some potential for sand & gravel on the upland areas within the compartment, but surface mining is not currently allowed. There are actively producing gas wells around much of the border of the compartment. There is potential for Antrim Shale gas beneath the compartment and possibly oil from Guelph (Niagaran) reefs, but future additional mineral leasing and development is not currently allowed within the compartment. All parcels within the compartment are currently classified as Nonleasable, but active leases exist in the compartment tied to current and past production in the region that pre-dated the consent agreement. There has been, and continues to be, drainage of State mineral resources around the edge of the compartment without compensation to the State. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access is restricted to Sawdust Pile Road and Road 96 in the portion of the Compartment south of the Black River. North of the river are two small state forest roads that provide access to the Black River as well as the private property inholdings.

Survey Needs:

None needed at this time. A survey was completed along the private property line in Section 12.

Recreational Facilities and Opportunities:

The High Country Pathway passes through Section 1, crossing Hodge Creek on a wooden bridge. The Pathway used to cross the Black River but the bridge was damaged and removed. The Pathway has been re-routed to Sawdust Pile Road until a decision is made on where to place a new bridge over the river. The North Spur of the Shore-to-Shore horse trail and the Midland to Mackinac Hiking trail both follow Sawdust Pile Road through this Compartment.

Fire Protection:

Access is only mediocre in the event of any fire suppression needs. Closed roads are mostly behind berms, although many of these roads are grown over. A locked gate provides access to the closed road network in Section 13. Fire risk is moderate in this Compartment due to the presence of pine and dry, sandy soils.

Additional Compartment Information:

Deer and elk browse continue to be a major impediment to sustainable forestry in this Compartment. Many aspen clearcuts have failed to successfully regenerate due to persistent browse pressure and have now been converted to a non-forested condition.

The following reports from the Inventory are attached:

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

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

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

Report 1 – Total Acres by Cover Type and Age Class

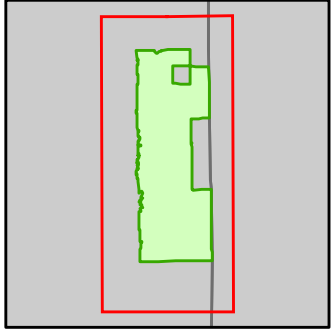


Age Class

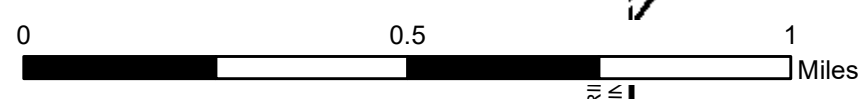
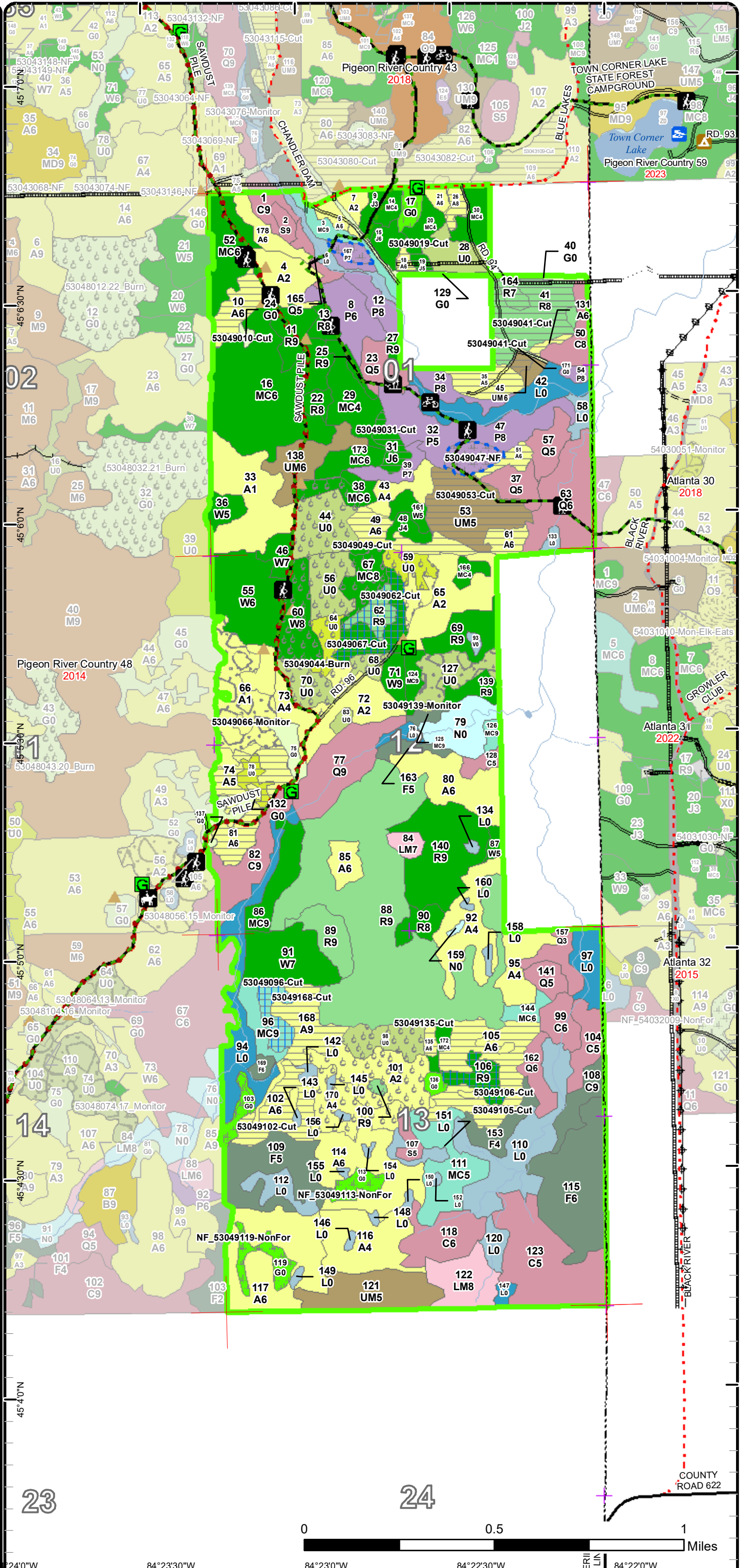
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	55	12	46	117	152	41	3	0	3	0	0	0	0	0	0	0	0	429
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	78	0	16	4	9	0	0	0	0	106
Cropland	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Jack Pine	0	0	0	3	4	0	3	7	0	0	0	0	0	0	0	0	0	0	17
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Aspen/Balsam Poplar	0	0	0	15	13	0	0	2	23	5	11	0	0	0	0	0	0	0	68
Lowland Conifers	0	0	0	0	7	0	15	0	8	9	0	54	0	0	0	0	0	0	92
Lowland Mixed Forest	0	0	0	0	0	0	0	0	15	3	0	0	0	0	0	0	0	0	18
Lowland Shrub	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	6
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Natural Mixed Pines	0	0	0	0	32	80	29	4	0	11	0	0	0	0	0	0	0	0	154
Red Pine	0	0	0	0	0	0	169	2	8	25	29	0	0	0	0	0	0	8	241
Upland Conifers	0	0	0	0	23	0	13	7	0	4	0	0	0	0	0	0	0	0	47
Upland Mixed Forest	0	0	0	0	21	16	24	0	0	0	0	0	0	0	0	0	0	0	61
Upland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Upland Spruce/Fir	0	0	0	0	71	2	0	0	0	0	0	0	0	0	0	0	0	0	73
White Pine	0	0	0	0	0	35	45	0	0	0	0	0	0	0	0	0	0	0	79
Total	257	55	12	64	288	285	339	25	57	138	43	70	4	9	0	0	0	8	1648

Cover Type & Treatments Map

Compartment: 49
 T31N, R01W, Sec. 01, 12, 13
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2023
 Acres: 1647.5 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 6/24/2021
 Map Phase: Review



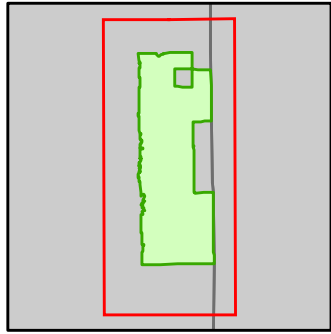
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Hiking Trails
- Bike Trails
- Horse Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- G Gate
- B Boating Access Site
- A Campground
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Prescribed Burn
- Seed Tree (w/Reserves)
- Regeneration Survey
- Opening Maintenance
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland



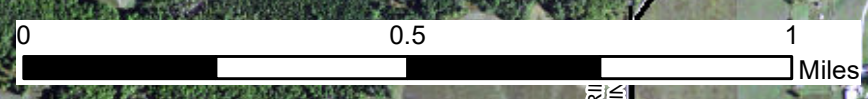
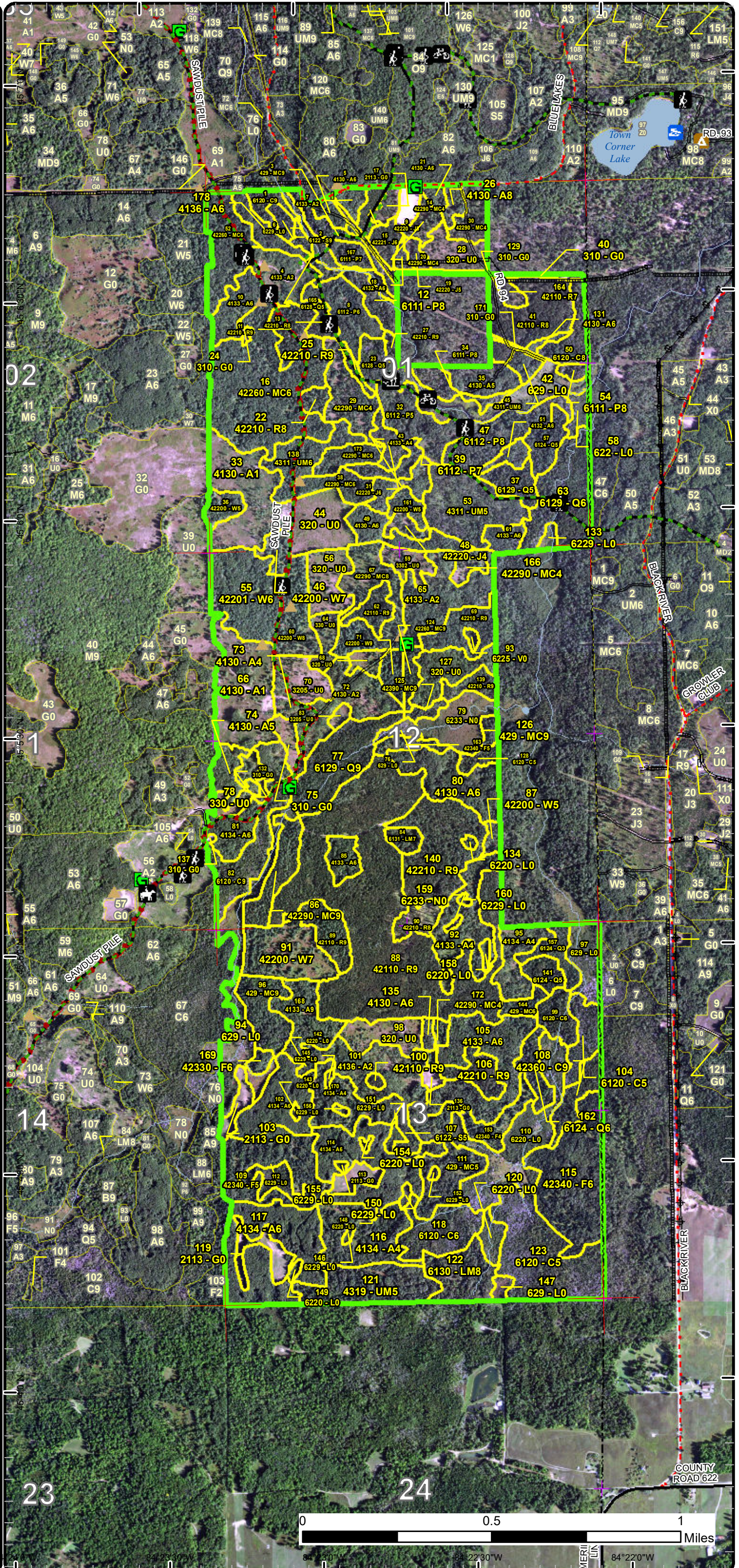
24°0'W 84°23'30"W 84°23'0"W 84°22'30"W 84°22'0"W

Stand Boundary Map

Compartment: 49
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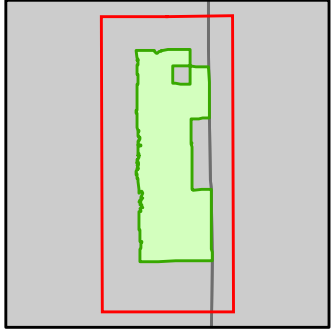
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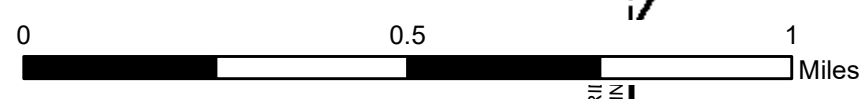
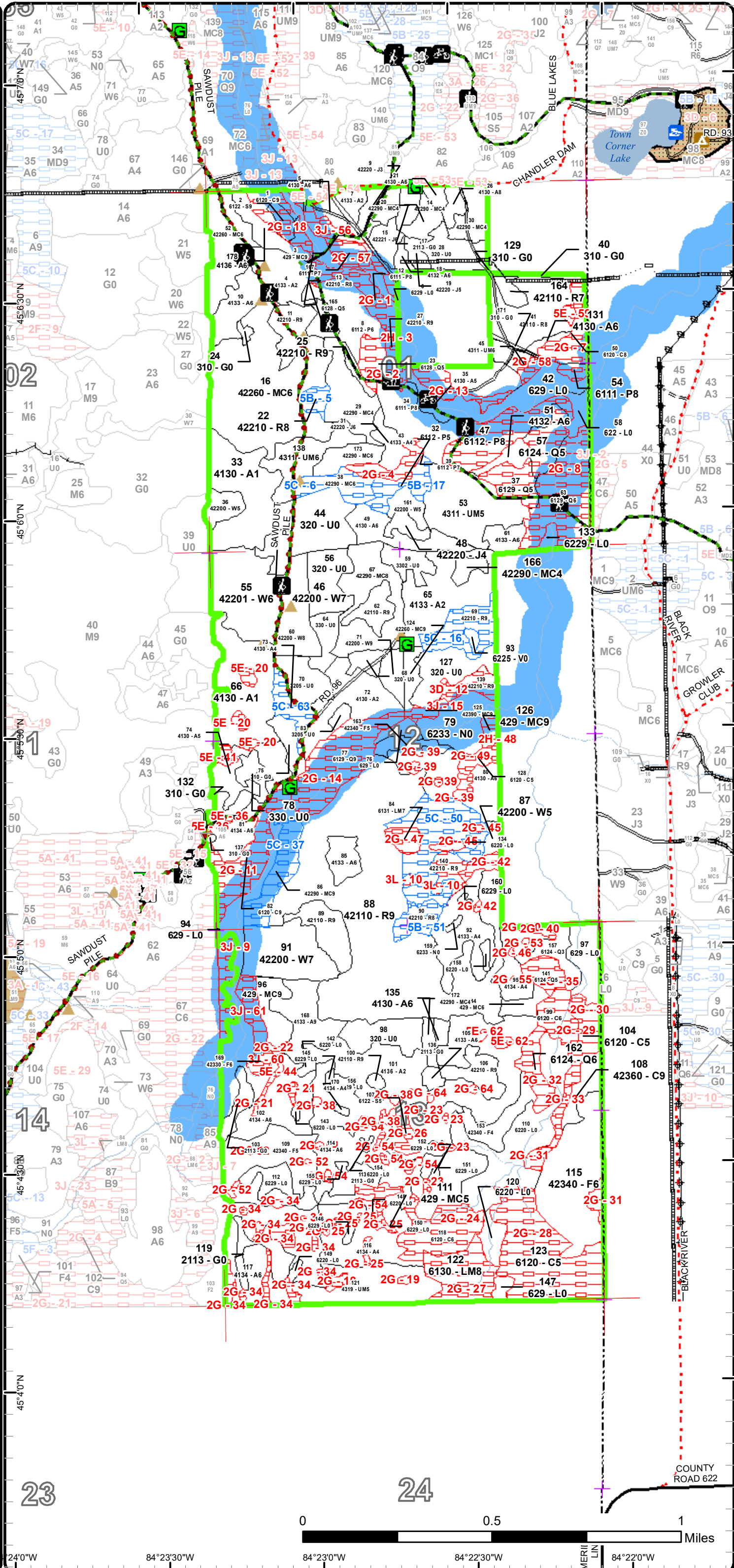
24°0'W 84°23'30"W 84°23'0"W 84°22'30"W 84°22'0"W

Special Conservation Areas

Compartment: 49
 T31N, R01W, Sec. 01, 12, 13
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2023
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- Designated Multi-Use Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Gate
- Boating Access Site
- Campground
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- State Forest Campground



24°0'W 84°23'30"W 84°23'0"W 84°22'30"W 84°22'0"W



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 209
 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	123	0	0	0	0	0	0	0	0	123
Jack Pine	7	0	0	0	0	0	0	0	0	7
Natural Mixed Pines	0	0	0	11	0	0	0	0	0	11
Red Pine	24	0	0	13	0	0	0	0	0	37
Upland Conifers	0	0	0	7	0	0	0	0	0	7
Upland Mixed Forest	24	0	0	0	0	0	0	0	0	24
Total	178	0	0	31	0	0	0	0	0	209

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	209	0	0	0	129	0	34	0	29	401
Next Step	0	46	46	0	88	0	383	0	0	563
Total	209	46	46	0	217	0	417	0	29	964



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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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Proposed Treatments:

10	53049010-Cut	9.5	4133 - Aspen, Mixed Pine	Poletimber Well	45	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut with no area retention. Leave any white or red pine over 18" DBH. Cut with stand 23 to the west in Compartment 48 if that stand is ready for a harvest and during the YOE for Comp 48.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Fully-stocked dominated by aspen with any additional mix of species being acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

17	53049017-NF	3.6	2113 - Forage Crops	Nonstocked			Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
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Prescription Maintain this opening through prescribed fire, mechanical, or chemical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

31	53049031-Cut	4.9	42220 - Natural Jack Pine	Poletimber Well	68	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clearcut with no area retention. This sale was previously set-up in 2013 but never cut, follow the old red line. A few clumps of jack pine were left as well as some larger red and white pine. These marks will need to be refreshed as well. Require chipping of tops in snow-free conditions to increase ground scarification.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully-stocked stand meeting jack pine regeneration guidelines.

Regen:

Other

Comment: Group this sale with the planned harvests in stands 49 and 53.

Site Condition

Proposed Start Date: 10/1 /2022



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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35	53049035-Cut	10.3	4130 - Aspen	Poletimber Medium	47	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut with no area retention due to the small size of the stand. Do not cut any white pine or white spruce over 10" DBH. Southern treatment boundary should follow the top of the ridgeline. Do not go down into the wet areas. Extend the treatment east into the dry part of stand 45, excluding all seasonally wet areas that are prevalent in the east half of the stand. Protect the two 40"+ white pine in stand 45 by marking leave trees around them to reduce the chance of windthrow.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully-stocked stand dominated by aspen with any additional mix of species being acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

41	53049041-Cut	21.4	42110 - Planted Red Pine	Sawtimber Medium	58	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut. Place a small area of retention along the east side that has more mixed species composition (desired area already in the site condition layer). Add 2" spec to get all of the cherry knocked down. Add low stump spec.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Fully-stocked stand of planted red pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

44	53049044-Burn	83.2	320 - Upland Shrub	Nonstocked	0	Unspecified	Burn	Opening	310 - Herbaceous Openland		No
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Prescription This burn includes a mosaic of forested stands and former aspen stands that have been converted to a U type due to browse. The burn will help to set back woody vegetation in the U types with the goal of converting them to a permanent non-forested condition. The burn also includes two red pine seed-tree harvests in stands 64 and 67. These stands will have been cut before the burn with slash left on site, with a goal of achieving natural regeneration through understory burning.

Next Step Monitoring, Prescribed Burn

Treatments:

Acceptable

Regen:

Other

Utilize open and closed roads along the west, south, north, and east sides to minimize line construction.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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47	53049047-NF	6.3	6112 - Lowland Aspen	Sawtimber Medium	70	1-50	NonForestMgt	Other - Specify	6112 - Lowland Aspen	Even-Aged	No
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Prescription This stand may be suitable for a Wildlife Habitat Grant project. Hand-fell all aspen and balsam poplar. Shear all tag alder. Reserve nannyberry. This ground is too soft for any heavy machinery. Take note of the Pathway which meanders through the west side of the treatment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition Too Wet

Proposed Start Date: 10/1 /2022

49	53049049-Cut	10.6	4130 - Aspen	Poletimber Well	52	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut with no area retention. Retain all white pine and red pine greater than 10 inches DBH. Leave any incidental spruce.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other High likelihood of browse damage in this stand. Leave the option open for planting a mix of species if browsing results in unacceptable
Comment: regeneration stocking.

Site Condition

Proposed Start Date: 10/1 /2022

51	53049051-Cut	3.5	4132 - Aspen, Jack Pine	Poletimber Well	55	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut with no area retention due to the small size of the stand. Do not cut any incidental red pine. Mark to leave a few jack pine in the clump on the north side for a seed source. Do not extend the treatment boundary down the ridge lines into the lowlands.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Fully-stocked stand dominated by aspen with any additional mix of species acceptable.
Regen:

Other The High Country Pathway will have to be crossed to reach this stand. Add appropriate trails specs.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

53	53049053-Cut	24.0	4311 - Pine, Aspen Mix	Poletimber Medium	55	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with area retention focused around the High Country Pathway which borders the northern edge of the stand. To encourage ground scarification, require chipping of tops in snow-free months. Mark to leave scattered clumps of larger jack pine (2-3 trees) to serve as a seed source. Leave all red pine and add specs to protect red pine saps. Leave all white pine over 10" DBH.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Fully-stocked stand dominated by a mix of jack pine, red pine, white pine, and aspen. If natural regeneration fails due to browse and lack of scarification, then leave the option open for planting supplemental jack pine.
Regen:

Other Protect all existing snags and coarse woody debris.
Comment: Add trail specs for the HCP.

Site Condition

Proposed Start Date: 10/1 /2022



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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61	53049061-Cut	4.4	4133 - Aspen, Mixed Pine	Poletimber Well	55	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut with no area retention due to the small size of the stand. Reserve all white pine and red pine greater than 10" DBH.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Fully-stocked stand dominated by aspen with any additional mix of species being acceptable.

Regen:

Other Survey corner is in.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

62	53049062-Cut	5.8	42110 - Planted Red Pine	Sawtimber Well	54	81-110	Harvest	Seed Tree	42290 - Natural Mixed Pine	Two-Aged	No
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Prescription Seed-tree leaving 20 square feet of the largest and best quality red pine. Leave all white pine as it is a small component of the stand.

Specs: Require that all slash is left.

Move up a year to the 2022 POW and require 1 year to get it cut. After harvest, burn this stand with the surrounding stands in 2023.

Next Step Monitoring, Natural Regen (Intermediate); Burn, Understory

Treatments:

Acceptable Fully-stocked stand meeting mixed pine regeneration guidelines.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

66	53049066-Monitor	21.5	4130 - Aspen	Sapling Poor	6	Immature	Monitoring	Natural Regen (Intermediate)	413 - Aspen	Even-Aged	No
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Prescription Intermediate natural regen survey to asses aspen stocking and survival. If browse has resulted in a less than well-stocked stand, initiate next steps for rollerchopping and planting to red pine as discussed in the comments below.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Monitor aspen regen success to see if it meets stocking guidelines.

Regen:

Other Rollerchop failed aspen regeneration to prep it for a trench and replant to red pine. The east/northeast side of the stand was excluded as that looks like the only area where the aspen may survive the browse. The southeast corner and far northwest corner may need to be excluded due to narrowness and more residual trees, evaluate during field operations.

Site Condition

Proposed Start Date: 10/1 /2024



Stand

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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67	53049067-Cut	10.9	42290 - Natural Mixed Pine	Sawtimber Medium	54	51-80	Harvest	Seed Tree	42290 - Natural Mixed Pine	Two-Aged	No
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Prescription Specs: Seed-tree leaving 10-20 square feet of the largest and best quality red and white pine. Leave a slightly higher BA (closer to 30) in the far western end of the stand that is primarily white pine. Require that all slash is left.

Move up a year to the 2022 POW and require 1 year to get it cut. After harvest, burn this stand with the surrounding stands in 2023.

Next Step Treatments: Monitoring, Natural Regen (Intermediate); Burn, Understory

Acceptable Regen: Fully-stocked stand meeting mixed pine regeneration guidelines.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

96	53049096-Cut	7.0	429 - Mixed Upland Conifers	Sawtimber Well	58	111-140	Harvest	Seed Tree	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Specs: Seed-tree leaving 20-30 square feet. Focus on leaving the best quality white pine, red pine, and spruce. Leave scattered large diameter aspen that have significant amounts of rot. Leave any incidental birch or oak.

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

Acceptable Regen: Fully-stocked stand with a mix of pine, spruce, and fir expected. Any additional mix of species will also be acceptable.

Other Comment: Exclude the wet area at the south end which is the origin of a small stream that flows into the L type (area already excluded in site conditions layer). Follow the west treatment line as closely as possible as this follows the cold-water buffer for Tubbs Creek.

Site Condition

Proposed Start Date: 10/1 /2022

101	53049101-Burn	46.1	4136 - Aspen, Mixed Conifer	Sapling Medium	27	Immature	Burn	Understory	413 - Aspen	Even-Aged	No
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Prescription Specs: Burn this series of stands in an attempt to rejuvenate aspen sprouting in areas that have been impacted by browse. This burn will potentially include stands 135, 172, 105, and 106 to the east, and stands 96, 102, and 168 to the west, if regeneration in those stands is unsuccessful due to browse. Regeneration in those stands should not be evaluated until at least 3 years after harvest so this burn should not take place until 2025 at the earliest, regardless of whether or not the harvested stands are included.

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen:

Other Comment: Avoid line construction near sensitive wetlands and vernal pools.

Site Condition

Proposed Start Date: 10/1 /2024



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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102	53049102-Cut	15.2	4134 - Aspen, Spruce/Fir	Poletimber Well	43	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all species. Leave a 1/2 chain to chain retention area around the scattered drainages, vernal ponds, and ponds that are present throughout the stand. Most of these have been excluded from the harvest boundary (see site conditions layer) but there may be more present. Leave a 1/2 chain to retention area along the west edge to discourage another round of beaver activity. The line of where beavers removed the aspen the last time this stand was cut is evident, follow that line (see site conditions layer).</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Burn, Slash</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> At least a moderately-stocked stand with an expected mix of fir, aspen, pine, and spruce being acceptable. Expect browse to eliminate a large proportion of the aspen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											

105	53049105-Cut	26.5	4133 - Aspen, Mixed Pine	Poletimber Well	43	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut. Leave red or white pine over 18" DBH. Leave spruce over 12" DBH. Exclude the two wet areas in the south half (see site conditions layer). Add retention to two small areas dominated by pine and spruce in the north half (see site conditions layer). Mark 1 large diameter white pine (>12" DBH) per acre as a cut and leave tree for drumming logs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Burn, Slash</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand meeting mixed species regeneration guidelines. Expect aspen, fir, pine, and spruce to be the dominant regeneration. The proportion of aspen will be significantly reduced due to browse.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											

106	53049106-Cut	7.4	42210 - Natural Red Pine	Sawtimber Well	72	111-140	Harvest	Seed Tree	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Leave 20-30 square feet of red pine. Focus on leaving the largest diameter trees. Leave all white pine and spruce. Plan on leaving these overstory trees indefinitely as this appears to be a natural origin stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Burn, Slash</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand with any mix of species being acceptable. Expect pine, spruce, and fir to be the most common regeneration.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											

131	53049131-Cut	1.3	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with no area retention due to the small size. Cut all species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand dominated by aspen with any additional mix of species acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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135	53049135-Cut	1.7	4130 - Aspen	Poletimber Well	43	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut all species.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); Burn, Slash

Treatments:

Acceptable Regen: Fully-stocked stand of aspen with any additional mix of species being acceptable. High likelihood that browse will negatively impact this stand.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

136	53049136-NF	1.8	2113 - Forage Crops	Nonstocked			Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
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Prescription Maintain this opening through the use of prescribed fire, mechanical, or chemical means.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

164	53049164-Cut	2.7	42110 - Planted Red Pine	Sawtimber Poor	58	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut. Add 2" spec to get all cherry and small pine knocked down.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Regen: Fully-stocked stand of planted red pine.

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

167	53049167-NF	2.8	6111 - Lowland Balsam Poplar	Sawtimber Poor	90	1-50	NonForestMgt	Other - Specify	6112 - Lowland Aspen	Even-Aged	No
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Prescription This stand may be suitable for a Wildlife Habitat Grant project. Hand fell all aspen and balsam poplar. Shear all alder. The wetness of this stand makes it unsuitable for heavy machinery.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other

Comment:

Other

Comment:

Site Condition Too Wet

Proposed Start Date: 5 /12/2021



Standard

Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
168	53049168-Cut	13.6	4133 - Aspen, Mixed Pine	Sawtimber Well	58	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut. No area retention, however take note of the southern end of the stand and, if present, exclude a small portion that may be a drainage which connects stand 142 (L type) to the wet area at the south end of stand 96. Leave all white pine over 18" DBH and any spruce over 10" DBH. If present, leave any incidental oak. There are a lot of poor quality aspen in this stand. Mark several as cut and leave trees for drumming logs. Mark others with significant amounts of rot as leave trees for future snags.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Burn, Slash</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked with an expected mix of fir, aspen, spruce, and pine. The proportion of aspen will be significantly reduced due to browse.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

Approved Treatments:

18	53049018-Cut	1.5	4132 - Aspen, Jack Pine	Poletimber Well	55	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut all species, leaving scattered individual jp seed trees to meet retention goals.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Natural regen to aspen/jack pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>											
19	53049019-Cut	2.2	42220 - Natural Jack Pine	Poletimber Medium	63	81-110	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut JP/aspen, consider full tree skidding to get some scarification and then lop and scatter minimal tops (<= 1/6) for cone dispersal (want to maintain as nutrient poor site). Leave clumps of JP onsite as retention/seed trees - many of the cones were already open in the crowns. Reserve Norway pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Natural regen to JP, aspen, NP.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>											



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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26	53049026-Cut	2.6	4130 - Aspen	Sawtimber Medium	88	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut aspen, jack pine, and maple. Reserve Norway pine and oak. Mark scattered individual jp to remain standing for seed source.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Original Rx regen comments: Natural regen to jp/aspen/maple/oak/np.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2012

74	53049074.24_Cut	14.6	4130 - Aspen	Poletimber Medium	48	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription clearcut all species.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other shore-to-shore trail runs adjacent to this stand. consult with rec. specialist to determine considerations for sale prep and admin. Natural
Comment: regen to aspen and mixed conifers.

Site Condition

Proposed Start Date: 10/1 /2019

81	53049081-Cut delayed	7.6	4134 - Aspen, Spruce/Fir	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription Clearcut all species.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Stand is adjacent to shore-to-shore trail. Consult with rec. specialist to determine considerations for sale prep and admin. natural regen to
Comment: aspen and mixed conifers.

Site Condition

Proposed Start Date: 10/1 /2019

127	53049139-Monitor	12.2	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	42290 - Natural Mixed Pine	Even-Aged	No
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Prescription Natural regen survey
Specs:

Next Step
Treatments:

Acceptable Pine, aspen, maple mix is acceptable.
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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
103 NF_53049103-NonFor	3.3	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> opening maintenance - fire or mechanical <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 5 /12/2021</p>										
113 NF_53049113-NonFor	4.6	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> opening maintenance - fire or mechanical <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 5 /12/2021</p>										
119 NF_53049119-NonFor	6.7	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> opening maintenance using fire or mechanical methods <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 6 /7 /2021</p>										

Total Treatment 401.3
Acreage Proposed:

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions									
		With Condition				5B	5C	2G	2H	3D	3J	3L	5E	ed	
430	383	13		34	Aspen	7	6	27						7	0
1	1	0		0	Bog										
107	6	0		101	Cedar			101							
21	21	0		0	Cropland						0				
15	15	0		0	Herbaceous Openland										
18	18	0		0	Jack Pine										
15	15	0		0	Low-Density Trees										
70	28	0		41	Lowland Aspen/Balsam Poplar			41							
91	7	0		85	Lowland Conifers			85							
18	0	0		18	Lowland Mixed Forest			18							
118	118	0		0	Lowland Shrub										
6	0	0		6	Lowland Spruce/Fir			6							
14	14	0		0	Marsh										
155	136	19		0	Natural Mixed Pines		19								
240	184	42		14	Red Pine	9	34	1	2	5		5	1		
47	29	0		18	Upland Conifers			2	2		14				
61	57	0		3	Upland Mixed Forest			3							
72	72	0		0	Upland Shrub					0					
73	66	0		7	Upland Spruce/Fir			5			2				
78	78	0		0	White Pine										
1,650	1,248	74		327	Total Forested Acres	15	59	289	4	5	16	5	8	0	
	76%	4%		20%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Year of Entry: 2023

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Cold water buffer for Tubbs Creek.							
10	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Multiple stick nests in this part of stand. Goshawk was observed in this area several times during sale prep.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for cabin							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: South half of stand becomes wet. Serves as a buffer against the marsh.							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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20	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Retention for stand 66.</p>							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: This site condition captures those wetland pockets/vernal pools/drainages that are visible in the stand from imagery. There are likely more.</p>							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: This site condition captures those wetland pockets/vernal pools/drainages that are visible from imagery. There are more in the stand.</p>							

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26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: A stream passes through the east half of this stand. Wet, organic soils do not allow for harvesting in this stand.							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 49

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Year of Entry: 2023

31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Areas of wet ground in stand 115 that don't look like they were harvested when the rest of the stand was. There are some additional small wet areas in the middle of the stand.</p>							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: Portions of the stand that are too wet and also form a buffer for Hodge Creek. May want to extend this buffer further.</p>							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: This site condition captures all of the wetland pockets, vernal pools, and drainages that are visible from imagery within stand 34. There are likely more.</p>							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
36	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Retention for stand 81</p>							

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37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Manage on a longer rotation using uneven-aged techniques due to the fact that this is a natural, mixed species stand. There is a short, steep slope along the western edge that was excluded from the harvest last entry and should be excluded again in the future.							
38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition encompasses the numerous wetland/vernal pools/ponds/drainages that are scattered throughout stand 170. See 98DOQ imagery for the best view. These features should be protected with buffers whenever a harvest is prescribed.							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition encompasses the numerous wetland/vernal pools/ponds/drainages that are scattered throughout stand 80. See 98DOQ imagery for the best view. These features should be protected with buffers whenever a harvest is prescribed.							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition encompasses the numerous wetland/vernal pools/ponds/drainages that are scattered throughout stand 95. See 98DOQ imagery for the best view. These features should be protected with buffers whenever a harvest is prescribed.							
41	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 74							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 49

Greg Rekowski : Examiner

Year of Entry: 2023

42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition encompasses the numerous wetland/vernal pools/ponds/drainages that are scattered throughout stand 92. See 98DOQ imagery for the best view. These features should be protected with buffers whenever a harvest is prescribed.							
43	Unspecified	Unspecified	0				
Comments:							
44	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Seasonally wet areas in the stand.							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition encompasses the numerous wetland/vernal pools/ponds/drainages that are scattered throughout stand 95. See 98DOQ imagery for the best view. These features should be protected with buffers whenever a harvest is prescribed.							
47	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 49

Greg Rekowski : Examiner

Year of Entry: 2023

48	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
49	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
50	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thin next entry. Manage on a longer basis using uneven-aged techniques. Exclude all stick nests and wet areas.							
51	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Evaluate regeneration next entry.							
52	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Vernal pools and drainages in stand 109. That are more of these features throughout the stand but are too small to map. Protect all with a buffer next time a harvest is prescribed.							
53	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition encompasses the numerous wetland/vernal pools/ponds/drainages that are scattered throughout stand 95. See 98DOQ imagery for the best view. These features should be protected with buffers whenever a harvest is prescribed.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 49

Greg Rekowski : Examiner

Year of Entry: 2023

54	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This site condition encompasses the numerous wetland/vernal pools/ponds/drainages that are scattered throughout stand 114. See 98DOQ imagery for the best view. These features should be protected with buffers whenever a harvest is prescribed.</p>							
55	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This site condition encompasses the numerous wetland/vernal pools/ponds/drainages that are scattered throughout stand 95. See 98DOQ imagery for the best view. These features should be protected with buffers whenever a harvest is prescribed.</p>							
56	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Narrow stand that borders the Black River. Portions of the stand are sitting on steep side slopes.</p>							
57	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
58	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Lots of seasonally wet ground in this part of stand 45 and should be excluded from harvest.</p>							
59	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 49

Greg Rekowski : Examiner

Year of Entry: 2023

60	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: A small creek wraps around the east and south edges of this stand, eventually joining with Tubbs Creek to the west. Do not cut this stand to limit beaver activity on Tubbs Creek. It was previously cut and resulted in a lot of beaver flooding (see 98DOQ). An old beaver dam is located near the southwest corner of the stand.</p>							
61	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Cold-water buffer for Tubbs Creek.</p>							
62	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Retention areas for the harvest in stand 105.</p>							
63	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
64	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Wet areas that should be excluded from the harvest in stand 105.</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	6120 - Lowland Cedar	Sawtimber Well	4.3	110	141-170	N/A	Mostly high quality stand of cedar, with most of the cedar appearing healthy. Wet ground except for some drier ridges next to the river. Average ba/acre from 4 plots = 158 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch	4	Pole/Log	8		Balsam Fir	Medium		Variable	Sapling	
Quaking Aspen	3	Log	13		White Spruce	Trace		Variable	Sapling	
Balsam Fir	4	Pole	7		Black Spruce	Trace		Variable	Sapling	
Black Spruce	5	Pole/Log	9		Tag Alder	Medium		10 - 20 feet	Tall Shrub	
Northern White Cedar	76	Log/Pole	10	110	Red Maple	Trace		Variable	Sapling	
Balsam Poplar	2	Log	13							
Red Maple	3	Pole/Log	8							
White Pine	3	XLog	19							
2	6122 - Black Spruce	Sawtimber Well	2.7	93	81-110	N/A		High quality spruce stand. Not well-stocked in all areas as there is some scattered blowdown. Wet stand. Average ba/acre from 3 plots = 83 square feet.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	20	Pole	7		Balsam Fir	Low	Variable		Sapling	
Black Spruce	65	Log/Pole	10	93	Tag Alder	High	10 - 20 feet		Tall Shrub	
Quaking Aspen	3	Log	13							
Northern White Cedar	8	Log/Pole	11							
Paper Birch	1	Pole	8							
White Spruce	3	Log	11							
3	429 - Mixed Upland Conifers	Sawtimber Well	6.8	63	81-110	N/A	Mixed species stand bordering the Black River. Most of the stand sits on a side-slope which leads down to the adjacent lowlands. Some areas of the slope are steep. Good quality spruce. A few very large white pine are present (30"+ DBH). Well developed shrub layer in places, with a few nice patches of hawthorn. The south half of the stand tends to have more white pine along with most of the jack pine, while the north half has more spruce. Average ba/acre from 8 plots = 99 square feet. No management due to slopes and proximity to the river. There are two popular camping spots in the stand, one at the south end and the other at the north end near the big turn on Chandler Dam Road. The High Country Pathway used to travel through part of the stand but has been re-routed after the bridge over the river was pulled.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple	3	Pole	8		White Spruce	Low		Variable	Sapling	
Balsam Fir	1	Pole	6		White Pine	Low		Variable	Sapling	
White Spruce	44	Log/Pole	10	63	Black Cherry	Medium		Variable	Tall Shrub	
Jack Pine	7	Log/Pole	10		Autumn Olive	Trace		5 - 10 feet	Tall Shrub	
Bigtooth Aspen	4	Log/Pole	14		Hawthorn (spp.)	Low		5 - 10 feet	Tall Shrub	
Quaking Aspen	8	Log/Pole/XLog	13		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub	
Red Pine	1	Log	14							
White Pine	32	Log/Pole/XLog	10							
4	4133 - Aspen, Mixed Pine	Sapling Medium	11.6	17	Immature	N/A		This stand was harvested in 2003 and regenerated only moderately-well to aspen. In general, the north half of the stand has pretty good regeneration while the south half is very spotty. Dense clumps of pine are common in the south half. Lots of hare tracks in this stand. The High Country Pathway used to go through the stand but was re-routed after the bridge over the Black River went out. To remove the bridge a road had to be built through this stand. It has since been closed.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	63	Sapling	2	17	Black Cherry	High	5 - 10 feet		Tall Shrub	
White Pine	30	Sapling/Pole	3							
Red Pine	2	Sapling	2							
Balsam Fir	1	Sapling	2							
Jack Pine	1	Sapling	2							
White Spruce	3	Sapling	2							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
5	4130 - Aspen	Poletimber Well	2.7	60	111-140	N/A	Small stand of aspen that has a second age class of much larger and older aspen mixed in. This older age class is primarily at the north end of the stand next to the road but there are also a few scattered individual trees throughout the stand. Most have lots of rot and are good wildlife trees. The north tip of the stand also sits on a steep slope and has more conifers mixed in. Autumn olive becoming common in the half of the stand north of the road. Average ba/acre from 5 plots = 114 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		4	Pole/Log	8		White Spruce		Low	5 - 10 feet	Sapling
Red Oak		4	Log/XLog	15	90	White Pine		Medium	Variable	Sapling
Bigtooth Aspen		70	Pole/Log/XLog	9	60	Black Cherry		Medium	Variable	Tall Shrub
White Pine		9	Pole/Log	8		Autumn Olive		Low	5 - 10 feet	Tall Shrub
Red Pine		2	Log/XLog	14						
White Spruce		1	Pole/Log	8						
Quaking Aspen		10	Pole/Log	9						
6	6229 - Mixed lowland shrub	Nonstocked	5.7		Unspecified	No		Only looked at the edges of this stand. Looks like lots of alder along with some patches of nannyberry.		
7	4133 - Aspen, Mixed Pine	Sapling Medium	3.6	29	Immature	N/A	This stand was harvested in 1992 in the sale Sawdust Pile East Aspen (#53-018-93), bought by Georgia Pacific. Regeneration came back only moderately well to aspen. The west half of the stand regenerated to mostly white pine. A few red oak saplings made it and they are mostly close to the road. Autumn olive abundant near the pipeline ROW.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		2	Pole/Sapling	5		Witch Hazel		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		50	Sapling/Pole	4	29	Black Cherry		Medium	Variable	Tall Shrub
Bigtooth Aspen		15	Sapling/Pole	4		Autumn Olive		Low	< 5 feet	Tall Shrub
White Pine		26	Pole/Sapling	5						
Red Oak		1	Sapling/Pole	4						
Jack Pine		6	Sapling/Pole	4						
8	6112 - Lowland Aspen	Poletimber Well	13.1	35	51-80	N/A	Stand was cut in 1985 by AJD in the sale Rocky Flat Aspen (#53-036-83). Regeneration came back well to a mix of species. Aspen tends to be more along the edges. The interior of the stand is heavy to spruce and fir. Ground is nearly an even mix of upland and lowland. The uplands are mostly in the middle of the stand. Lowlands, including some very wet areas and drainages with standing water, are mostly along the edges. Trace of green ash and American elm poletimber. Average ba/acre from 7 plots = 56 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		57	Pole/Sapling	6	35	Balsam Fir		Medium	Variable	Sapling
Balsam Fir		9	Pole/Sapling	5		White Spruce		Medium	Variable	Sapling
White Spruce		21	Pole/Sap/Log	6		Tag Alder		Low	10 - 20 feet	Tall Shrub
Paper Birch		1	Pole/Sapling	5		Willow spp.		Low	>20 feet	Sapling
Black Spruce		3	Pole/Sapling	5		Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub
Red Pine		3	Pole/Log	9		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub
White Pine		1	Pole/Log	8						
Balsam Poplar		5	Pole	7						
9	42220 - Natural Jack Pine	Sapling Well	3.3	29	51-80	N/A	This stand was harvested in 1992 in the sale Sawdust Pile East Aspen (#53-018-93), bought by Georgia Pacific. Regeneration came back well to jack pine. Trace of white spruce and red pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		86	Sapling/Pole	4	29	Black Cherry		Medium	Variable	Tall Shrub
Bigtooth Aspen		4	Pole	6						
Red Maple		1	Pole	6						
White Pine		9	Sapling/Pole	3						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
10	4133 - Aspen, Mixed Pine	Poletimber Well	9.5	45	81-110	N/A	Poor quality aspen with a significant amount of white pine in both the overstory and understory. The aspen is declining in some areas. Trace amounts of XL-sized white pine. Trace of jack pine, red maple, and sugar maple. Average ba/acre from 6 plots = 88 square feet. Browse pressure makes successful regeneration of this stand doubtful. Could wait until adjacent stand 23 in Comp 48 is ready. Or let the aspen die and manage for white pine long term.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		35	Pole/Sapling	6		White Pine		Medium	Variable	Sapling
Red Pine		3	Log	11		Cherry (spp.)		Low	Variable	Tall Shrub
Quaking Aspen		62	Pole	7	45					
11	42210 - Natural Red Pine	Sawtimber Well	8.1	65	111-140	N/A	Nice red pine stand that qualifies as uneven-aged due to 3 distinct age classes. A supercanopy of large diameter, natural pine is present with a slightly younger age class of red pine that appears to be planted. The understory has areas of dense white pine regeneration, more so west of the road. Average ba/acre from 6 plots = 132 square feet. The two ages were taken from an 11" red pine (65 yo) and 17" red pine (87 yo).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		15	XLog/Log/Pole	19	87	White Pine		High	Variable	Sapling
Red Pine		77	Log/XLog/Pole	14	65	Red Pine		Trace	Variable	Sapling
Quaking Aspen		5	Pole	7		Black Cherry		Low	5 - 10 feet	Tall Shrub
Red Maple		1	Pole	6						
Paper Birch		1	Pole	8						
Jack Pine		1	Pole	8						
12	6111 - Lowland Balsam Poplar	Sawtimber Medium	6.5	90	51-80	N/A	Moderately-stocked lowland poplar stand adjacent to the Black River. BAM is more abundant in the south half. A couple of very large cedar, measured one at 33" DBH. Used to be quite a bit of American elm in the stand but it is now all dead. Trace of paper birch and a few green ash that are still alive. Average ba/acre from 5 plots = 68 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Poplar		46	Log/Pole	13	90	Nannyberry		Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		10	Log/XLog	13		Cherry (spp.)		Trace	Variable	Tall Shrub
Balsam Fir		2	Pole/Log	8		Tag Alder		High	10 - 20 feet	Tall Shrub
White Spruce		3	Pole/Log	8		Balsam Poplar		Trace	Variable	Sapling
Quaking Aspen		39	Log/Pole	11		White Spruce		Trace	Variable	Sapling
						Balsam Fir	Trace	Variable	Sapling	
13	42210 - Natural Red Pine	Sawtimber Medium	3.4	57	81-110	N/A	Moderately stocked red pine stand. There used to be more jack pine in the stand but most of it is dead and fallen over. A 2nd age class of larger, older red pine is present but rare. Best stand stocking is along the east edge which is where the High Country Pathway runs north-south the entire length of the stand. Average ba/acre from 3 plots = 87 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		10	XLog/Log	18		White Pine		Medium	Variable	Sapling
Red Pine		75	Log/Pole/XLog	13	57	White Spruce		Trace	Variable	Sapling
Jack Pine		9	Pole/Log	8		Black Cherry		Medium	Variable	Tall Shrub
White Spruce		1	Pole/Log	8						
Quaking Aspen		5	Pole	8						
14	42290 - Natural Mixed Pine	Poletimber Poor	3.2	36	1-50	N/A	This stand was cut in 1985 in the sale Traded Forty Aspen (#53-038-83), bought by Champion. Regeneration did not come back well and previous inventory notes that elk browse was severe in this stand. As a result, stocking is sporadic and there are several non-forested areas mixed in. Trace of red maple poletimber, and red pine and white pine sawtimber. Average ba/acre from 5 plots = 44 square feet. The High Country Pathway travels north/south through the west part of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		24	Sapling/Pole	4		Black Cherry		High	Variable	Tall Shrub
Jack Pine		52	Pole/Sapling	6	36	Autumn Olive		Low	5 - 10 feet	Tall Shrub
Red Oak		1	Log	12						
White Pine		10	Sapling/Pole	4						
Red Pine		13	Pole/Sapling	7						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
15	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	4.4	36	1-50	N/A	This stand was cut in 1985 in the sale Traded Forty Aspen (#53-038-83), bought by Champion. Regeneration came back well to jack pine. The aspen component is primarily along the eastern edge. Spruce is mostly at the far southern end. Trace of white pine and red pine sawtimber trees. Average ba/acre from 6 plots = 48 square feet (low but does not include sub-merchantable saplings).																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>7</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>62</td> <td>Pole/Sapling</td> <td>5</td> <td>36</td> </tr> <tr> <td>White Spruce</td> <td>1</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>4</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	7	Pole/Sapling	6		Jack Pine	62	Pole/Sapling	5	36	White Spruce	1	Pole/Log	8		White Pine	3	Pole/Sapling	5		Red Pine	4	Pole/Sapling	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>White Spruce</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Medium	Variable	Tall Shrub	White Spruce	Trace	Variable	Sapling	Red Pine	Trace	Variable	Sapling	White Pine	Medium	Variable	Sapling
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16	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	53.7	43	81-110	N/A	Stand of primarily white pine and aspen. The two species tend to alternate in clumps but overall white pine is more dominant. Very poor quality aspen, much of it is in decline, especially the further east you go in the stand. Site quality increases as you move west in the stand. XL-sized white pine are scattered infrequently throughout the stand. A few small areas non-forested areas are present throughout. Trace of sugar maple. Average ba/acre from 16 plots = 88 square feet. Lots of animal tracks in the stand, including pine marten. An old railroad grade runs north-south through the western part of the stand. Leave this stand alone for now, letting the aspen die out, and manage for white pine in the future.																																														
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17	2113 - Forage Crops	Nonstocked	3.6		Unspecified	Managed Opening	Food plot, elk viewing area.																																														
18	4132 - Aspen, Jack Pine	Poletimber Well	1.6	55	51-80	N/A	Currently under contract with Precision Forestry in the sale Mile Long Aspen (#53-017-18-01).																																														
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19	42220 - Natural Jack Pine	Poletimber Medium	2.3	63	81-110	N/A	Currently under contract with Precision Forestry in the sale Mile Long Aspen (#53-017-18-01).																																														
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20	42290 - Natural Mixed Pine	Poletimber Poor	4.6	36	51-80	N/A	This stand was cut in 1985 in the sale Traded Forty Aspen (#53-038-83), bought by Champion. Some nice patches of red pine regenerated but that's about it. Past inventory notes that elk browse hammered all of the aspen regeneration that was in the stand. As a result there are numerous poorly-stocked areas. There are some larger XL-sized residual red pine scattered throughout. Trace of white spruce poletimber. Average ba/acre from 5 plots = 34 square feet.																																																												
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21	4130 - Aspen	Poletimber Well	2.1	36	111-140	N/A	This stand was cut in 1985 in the sale Traded Forty Aspen (#53-038-83), bought by Champion. Aspen regenerated well in this stand, unlike all the other nearby stands that were cut at the same time. Some blowdown along the west edge from a straight line wind event that occurred in the summer of 2019. Average ba/acre from 3 plots = 113 square feet.																																																												
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22	42210 - Natural Red Pine	Sawtimber Medium	3.1	87	81-110	N/A	Two-aged stand with a supercanopy of large and old natural red pine. A few scattered younger red pine in the poletimber and small sawlog size classes are present. Nice white pine regeneration throughout. Old inventory notes that a wildfire burned through the stand in the late 1980s. A few old plow lines are still evident. Average ba/acre from 3 plots = 100 square feet.																																																												
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23	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	7.5	55	81-110	N/A	This stand is a mixed bag of everything, difficult to type out. The south end has drier ground and is a mix of spruce/fir/pine/aspen. As you move north the stand quickly becomes very wet and has areas with a thick understory of fir and spruce. Clumps of cedar are most common at the north end. There is also quite a bit of older cedar blowdown which makes it hard to get through the stand. Average ba/acre from 5 plots = 92 square feet.																																																												
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24	310 - Herbaceous Openland	Nonstocked	0.9		Unspecified	No	Small natural opening, not managed.																																																												
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25	42210 - Natural Red Pine	Sawtimber Well	1.8	59	111-140	N/A	Small strip of red pine with the High Country Pathway running through the majority of it. Variety of red pine diameters present with smaller poletimber along the west edge. A second age class of larger, older red and white pine trees in the XL size class. Average ba/acre from 3 plots = 120 square feet. No management due to the small size and recreation influence.																																																				
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26	4130 - Aspen	Sawtimber Medium	3.1	88	81-110	N/A	Currently under contract with Precision Forestry in the sale Mile Long Aspen (#53-017-18-01). Lots of blowdown in this stand from a straight line wind event in the summer of 2019.																																																				
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27	42210 - Natural Red Pine	Sawtimber Well	1.8	69	81-110	N/A	Small natural red pine stand sitting on an upland knob. A variety of red pine diameters are present. The 69 year old age is from a 16" red pine. Trace of black spruce and jack pine poletimber. Trace of red and white oak saplings. Average ba/acre from 3 plots = 87 square feet. Didn't find the survey corner but found two witness trees with old blaze marks.																																																				
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28	320 - Upland Shrub	Nonstocked	9.3		Unspecified	No	This stand was harvested at one time but did not regenerate. Heavy black cherry component. Poor site quality so the cherry won't amount to anything merchantable. Scattered red and jack pine.																																																				
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29	42290 - Natural Mixed Pine	Poletimber Poor	13.5	34	1-50	N/A	Poorly-stocked stand which varies from open non-forested areas to clumps of mixed pine saplings and poletimber. The central part of the stand has an area of better stocking with aspen and pine. The aspen is very poor quality and appears to be in decline. Although rare, there is a small amount of red pine ingrowth. Quite a bit of elk use in the stand. Average ba/acre from 6 plots = 48 square feet. Previous inventory notes that a wildfire burned through the stand in the late 1980s. No indication whether or not there was a salvage harvest.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
30	42290 - Natural Mixed Pine	Poletimber Poor	7.5	35	1-50	N/A	<p>Poorly stocked stand with a lot of scrubby jack pine. However, most of the stand also has a nice component of natural red pine in various size classes. There are a few very large (20"+ DBH) supercanopy red pine. Small clone of quaking aspen at the north end. Quite a bit of autumn olive west of the road. Average ba/acre from 7 plots = 41 square feet. Some blowdown from a straight line wind event that came through the area in the summer of 2019. Most of the damage took place on the private property to the east.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	17	Pole	6		Red Pine	Low		>20 feet	Sapling
Red Pine	37	Pole/Sap/Log	7		Black Cherry	Medium		Variable	Tall Shrub
Jack Pine	42	Pole	6	35	Jack Pine	Low		Variable	Sapling
Black Cherry	2	Pole	6		White Pine	Trace		Variable	Sapling
Red Maple	1	Pole	6		Autumn Olive	Low		< 5 feet	Tall Shrub
White Pine	1	Pole	7		Red Maple	Trace		Variable	Sapling
31	42220 - Natural Jack Pine	Poletimber Well	4.9	68	81-110	N/A	<p>Moderate quality jack pine stand. A few log-size jack pine are present but not many. A couple of XL-sized red pine scattered throughout. Aspen component is mostly low quality. The east edge of the stand is on a slight downward slope. Average ba/acre from 4 plots = 83 square feet.</p> <p>This stand was set-up for a clearcut as part of a larger timber sale in 2013 with other stands in the Compartment east of the river but the sale never sold after several attempts and was dropped.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	10	Pole/Log	8		White Pine	Medium		Variable	Sapling
Red Pine	4	Log/Pole	11		Black Cherry	Low		Variable	Tall Shrub
Jack Pine	84	Pole	7	68					
White Pine	2	Pole	6						
32	6112 - Lowland Aspen	Poletimber Medium	15.2	28	51-80	N/A	<p>Stand cut in 1992 by Champion in the sale Sawdust Pile East Aspen (#53-018-93). Stand regenerated well to primarily aspen and balsam poplar. However, there are several wet areas that did not regenerate and are now marshy openings. In addition to these marshy areas, the rest of the stand is quite wet except for a few upland hummocks. The east part of the stand looks like a drainage, flowing down to the river. There is a small clump of red pine that wasn't cut, resembles a retention area. Trace of paper birch, black spruce, and American elm poletimber. Average ba/acre from 7 plots = 63 square feet.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	80	Pole/Sapling	5	28	White Spruce	Low		Variable	Sapling
White Spruce	2	Pole/Sapling	5		Alder	Medium		10 - 20 feet	Tall Shrub
Red Pine	2	Log	13		Balsam Poplar	Trace		Variable	Sapling
Balsam Poplar	16	Pole/Sapling	7		Black Cherry	Medium		Variable	Tall Shrub
					Nannyberry	Low		5 - 10 feet	Tall Shrub
					Paper Birch	Trace		>20 feet	Sapling
33	4130 - Aspen	Sapling Poor	26.8	6	Immature	N/A	<p>Stand cut in the sale Beginner's Luck Aspen in the winter of 2014-15. Whole tree harvest, cut by a Tulgetska flail crew. This was formerly a fully-stocked aspen stand. Aspen initially regenerated well but has been absolutely hammered by elk browse, with most of the west half of the stand being converted to a non-forested condition with only black cherry growing. As you move east and get closer to the road the browse impacts slightly decrease but I'm doubtful much of the regen in this area will survive. Quaking aspen is the dominant aspen species in the stand but is being browsed just as hard as the bigtooth component. Elk are still very active throughout the area. Trace of red pine residual. The majority of this stand sits on good soils and should be able to regenerate hardwoods. Yet another productive site turned into a non-forested stand.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	10	Pole/Log	8		Black Cherry	Medium		< 5 feet	Tall Shrub
Bigtooth Aspen	20	Sapling	1						
Quaking Aspen	70	Sapling	1	6					
34	6111 - Lowland Balsam Poplar	Sawtimber Medium	5.9	73	51-80	N/A	<p>Wet lowland popple stand that borders the Black River. Poorly-stocked in the western 1/3rd of the stand. Aspen more common in the west half. Areas of very wet ground with cattails and marsh grass at the ground level. Transitions to upland along the north edge. A few areas with small clumps of reed canary grass. Average ba/acre from 6 plots = 55 square feet.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	56	Log/Pole	12	73	Balsam Poplar	Low		Variable	Sapling
American Elm	1	Pole/Log	8		Tag Alder	Medium		10 - 20 feet	Tall Shrub
Balsam Poplar	43	Log/Pole	13		Nannyberry	Low	10 - 20 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
35	4130 - Aspen	Poletimber Medium	8.8	47	51-80	N/A	Moderate quality aspen stand. Areas of lower stocking along the north edge. Heavy black cherry understory in some places. Average ba/acre from 7 plots = 53 square feet. 45" DBH white pine on the east edge of the stand. Survey corner is in. Rebar with a larger steel fence post next to it.																																																											
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36	42200 - Natural White Pine	Poletimber Medium	4.8	49	81-110	N/A	Similar to stand 55 to the south in that the white pine quality is not too great. A few XL-sized white pine. Small pocket of bigtooth aspen along the west edge. Quaking aspen is mostly along the edges. North half of the stand has scattered non-forested openings. Average ba/acre from 5 plots = 92 square feet.																																																											
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37	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	7.1	101	81-110	N/A	This stand is a mixed bag of everything. Scattered clumps of large diameter cedar are present in the middle of the stand. The east/southeast part of the stand is mostly smaller timber with a good representation of young paper birch. Aspen is mostly along the northwest/west edges. The remainder of the stand is a mix of spruce and fir, and not very well-stocked. Trace of white pine and white spruce. Average ba/acre from 5 plots = 109 square feet. Some upland along the south edge but the remainder of the stand is wet and not available for management. The High Country Pathway passes through the southeast part of the stand.																																																											
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38	42290 - Natural Mixed Pine	Poletimber Well	7.6	58	111-140	N/A	West half of the stand is mostly white pine poletimber with aspen mixed in. The east half of the stand is primarily white and red pine with a second age class of larger, older red and white pine in the XL size class. The smaller red pine appears planted. Small open area in the east half. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a slight north-facing aspect. Let the white pine grow more before considering a treatment.																																																											
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39	6112 - Lowland Aspen	Sawtimber Poor	5.1	83	1-50	N/A	Wet ground down the middle of the stand with some upland along the edges. Poorly-stocked stand throughout. Small clump of cedar at the west end. Thick understory of alder. There used to be a lot of elm in the stand but it is now all dead. Average ba/acre from 4 plots = 43 square feet.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
40	310 - Herbaceous Openland	Nonstocked	1.4		Unspecified	No	Pipeline ROW																																		
41	42110 - Planted Red Pine	Sawtimber Medium	22.3	58	111-140	N/A	Planted red pine stand with several areas of low stocking. Past planting notes indicate poor survival rates when the stand was initially planted. This stand also had a partial harvest in 1985, which removed primarily aspen, and is another reason for the sporadic stocking. Red pine quality is good in areas that are well-stocked, in areas of lower stocking the red pine are short and limby. Jack pine is mixed in throughout. Some areas along the east/southeast edge where aspen is mixed in. Trace of white pine, white spruce, and red maple in the overstory. Average ba/acre from 11 plots = 125 square feet.																																		
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42	629 - Mixed non-forested wetland	Nonstocked	17.4		Unspecified	No	Black River flows through the length of the stand. The western part of the stand that is south of the river is mostly upland and on a ridge overlooking the river. There are a few clumps of non-native honeysuckle in this area. The east half of the stand has fewer shrubs and tends to be more of a wet meadow.																																		
43	4133 - Aspen, Mixed Pine	Poletimber Poor	6.6	52	1-50	N/A	Poorly-stocked, very low quality aspen. Much of the aspen is deformed, unhealthy, and looks close to death. Nice white pine understory in most areas except for the north end. Average ba/acre from 5 plots = 48 square feet. This site does not seem suitable for aspen or there is some unknown forest health issue going on? Let the aspen die and manage for pine in the long term.																																		
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44	320 - Upland Shrub	Nonstocked	15.3	0	Unspecified	No	The stand was cut by Alan Lamberson in 2003 in the sale Sawdust Pile Aspen (#53-013-03). Regen failure due to deer and elk browse. It was formerly a mixed pine and aspen stand. Now it has been taken over by black cherry, which would be good if this site was capable of growing quality black cherry, unfortunately it is not. A few small clumps of quaking aspen in the west half. Red pine saplings more common in the east half.																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
45	4311 - Pine, Aspen Mix	Poletimber Well	3.1	47	111-140	N/A	Stand of mixed pine and aspen. Areas of wet ground in the east half of the stand. West edge of the stand has some planted red pine mixed in. Two massive white pine in the south-central part of the stand, one 45" DBH and the other 43" DBH. Trace of white spruce and paper birch. Average ba/acre from 5 plots = 130 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		52	Pole/Log	8	47	Alder		Low	10 - 20 feet	Tall Shrub	
White Pine		33	Pole/Log	8		Cherry (spp.)		Medium	Variable	Tall Shrub	
Jack Pine		3	Log/Pole	10		Nannyberry		Trace	10 - 20 feet	Tall Shrub	
Red Pine		12	Pole/Log	9		White Pine		Trace	Variable	Sapling	
46	42200 - Natural White Pine	Sawtimber Poor	4.7	49	1-50	N/A	Open-grown, poor quality white pine. A few clumps of quaking aspen in the north half. Non-forested openings scattered throughout. Average ba/acre from 4 plots = 30 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		3	Pole	7		White Pine		Medium	Variable	Sapling	
White Pine		75	Log/Pole	10	49	Cherry (spp.)		Low	Variable	Tall Shrub	
Jack Pine		1	Pole/Log	8							
Red Pine		4	Log	12							
Quaking Aspen		17	Pole/Log	8							
47	6112 - Lowland Aspen	Sawtimber Medium	17.5	70	1-50	N/A	Moderate quality lowland popple stand that borders the Black River. The west half of the stand has better stocking, smaller diameters, and a diverse shrub layer. The east half of the stand has lower stocking, mostly log-size diameters, and mostly tag alder in the understory. The majority of the stand is wet ground except for a small upland knob of mostly spruce and fir adjacent to the river. Average ba/acre from 7 plots = 47 square feet. Trace of American elm, basswood, cedar, and white pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		1	Pole/Log	8		Nannyberry		Low	5 - 10 feet	Tall Shrub	
Quaking Aspen		70	Log/Pole/XLog	11	70	Alder		High	10 - 20 feet	Tall Shrub	
Balsam Poplar		23	Log/Pole	10		Balsam Poplar		Trace	Variable	Sapling	
Tamarack		2	Log/XLog	14		Black Cherry		Low	5 - 10 feet	Tall Shrub	
Balsam Fir		2	Pole	6							
Black Spruce		2	Pole	7							
48	42220 - Natural Jack Pine	Poletimber Poor	3.4	55	1-50	N/A	A few clumps of mature jack pine surrounded by poorly-stocked areas with smaller diameter, open-grown jack pine and white pine. Average ba/acre from 3 plots = 20 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		5	Pole	8		White Pine		Low	Variable	Sapling	
White Pine		22	Pole	6		Black Cherry		Low	5 - 10 feet	Tall Shrub	
Jack Pine		72	Pole/Log	8	55	Jack Pine		Medium	Variable	Sapling	
Red Pine		1	Log	13		Red Pine		Trace	Variable	Sapling	
49	4130 - Aspen	Poletimber Well	10.6	52	111-140	N/A	Moderate quality aspen stand, but much better than any other aspen stands in the nearby area. The east-west running finger of the stand is on a slight north facing downslope. The western part of the stand is on a slight east facing aspect. Trace of white spruce poletimber. Average ba/acre from 6 plots = 122 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		56	Pole/Log	8	52	White Pine		Low	Variable	Sapling	
White Pine		10	Pole/Log	8		Red Pine		Trace	Variable	Sapling	
Jack Pine		1	Pole	6		Black Cherry		Medium	Variable	Tall Shrub	
Red Maple		3	Pole	6							
Red Pine		5	Log/Pole	12							
Quaking Aspen		25	Pole	7							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
50	6120 - Lowland Cedar	Sawtimber Medium	8.5	121	141-170	N/A	Nice cedar in this stand with some large diameter trees present. Most of the cedar is healthy except for a few localized areas of decline. Several areas of lower stocking due to blowdown that occurred a long time ago. Some of these areas have filled in with paper birch. The southern 1/3rd of the stand transitions to more of a Q type with more spruce, pine, and tamarack mixed in. There is a little bit of drier ground at the far southwestern end of the stand. Trace of red pine and red maple. Average ba/acre from 5 plots = 158 square feet. A lot of wildlife use in the stand (hare, bobcat, raccoon, coyote, deer) and several species are using old tip-up mounds from blowdown as dens.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	3	Pole/Log	8		Paper Birch	Trace		>20 feet	Sapling
Quaking Aspen	2	Log	14		Balsam Fir	Low		10 - 20 feet	Sapling
Balsam Fir	2	Pole	7		White Spruce	Low		10 - 20 feet	Pole
White Spruce	2	Log/Pole	11		Alder	Medium		10 - 20 feet	Tall Shrub
Northern White Cedar	74	Log/Pole/XLog	12	121					
Balsam Poplar	1	Pole/Log	8						
White Pine	1	Log	13						
Tamarack	3	Log/Pole	10						
Black Spruce	12	Pole/Log	8						
51	4132 - Aspen, Jack Pine	Poletimber Well	3.5	55	51-80	N/A		Unique upland knob surrounded by lowland except for a thin ridge that connects with upland to the west in stand 53. Curious if this ridge was man-made or not, it somewhat resembles an elevated railroad grade. Poor quality aspen, stand is better suited for pine. Fir component is along the edges. Trace of red pine. Average ba/acre from 4 plots = 70 square feet.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Quaking Aspen	63	Pole	8	55	Balsam Fir	Low	Variable		Sapling
Jack Pine	30	Pole	7		Black Spruce	Trace	Variable		Sapling
Black Cherry	1	Pole	6		Black Cherry	Low	Variable		Tall Shrub
Black Spruce	1	Pole/Sapling	5						
Balsam Fir	5	Pole	6						
52	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	17.2	45	81-110	N/A	Similar to stand 16 to the south, this stand is primarily white pine and quaking aspen. The aspen is very low quality and declining in areas. Some areas of dense white pine are present. Although rare, there are scattered red and white pine in the XL size class, more east of the road. Average ba/acre from 7 plots = 89 square feet. Manage for white pine, let the aspen die out.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	53	Pole/Sap/Log	7	45	White Pine	Medium		Variable	Sapling
Jack Pine	1	Pole	8		Cherry (spp.)	Low		Variable	Tall Shrub
Red Pine	7	Log/Pole/XLog	13						
Red Maple	1	Pole	8						
Bigtooth Aspen	4	Pole	8						
Quaking Aspen	34	Pole	7						
53	4311 - Pine, Aspen Mix	Poletimber Medium	24.0	55	51-80	N/A	Moderate quality jack pine, poor quality aspen. Not a well-stocked stand. There used to be a lot more jack pine but a lot of it, maybe 1/2, have snapped off crowns or have blown over. This looks to have occurred many years ago. Trace of black spruce along the lowland edges. Average ba/acre from 9 plots = 51 square feet. The High Country Pathway goes through almost the entire northern edge of the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	43	Pole	7		Red Pine	Trace		Variable	Sapling
Red Pine	3	Log/Pole/XLog	12		White Pine	Low		Variable	Sapling
Jack Pine	52	Pole/Log	8	55	Black Cherry	Low		Variable	Tall Shrub
White Pine	2	Log/Pole	12						
54	6111 - Lowland Balsam Poplar	Sawtimber Medium	1.9	65	51-80	N/A	Wet stand. A lot of blowdown in the west half. Lots of marsh grass at the ground level. Average ba/acre from 4 plots = 63 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	53	Log/Pole	11	65	Black Cherry	Low		Variable	Tall Shrub
Balsam Poplar	47	Log/Pole	13	65	Tag Alder	High	10 - 20 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
55	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	24.6	49	111-140	N/A	Generally poor quality white pine poletimber with the exception of the denser pockets which show better form. Although rare, a few XL-sized white pine are present. Aspen is scattered throughout in small clumps and is also mostly low quality. Gently rolling terrain on an east-facing aspect. Trace of paper birch and balsam fir. Average ba/acre from 9 plots = 119 square feet. Open area in the middle which looks like it was used for access to harvest the adjacent stand to the west. Let the stand grow and manage for white pine.																																															
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56	320 - Upland Shrub	Nonstocked	11.1		Unspecified	No	This stand was cut in 1994 in the sale Sawdust Pile East Aspen (#53-018-93) by Georgia Pacific. Regen failure due to deer and elk browse, this was previously a forested stand. Now it has come back heavy to black cherry with quite a few open-grown, bushy white pine. The north edge has a small strip of forest that runs east-west to adjacent stands and has mostly white pine, red pine, and aspen in it. Old landing, or possibly food plot, located in the middle of the stand with what looks to be rye still growing in and around the area. There is also evidence of an old foundation just south of that? Can't tell with the snow on the ground.																																															
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57	6124 - Lowland Spruce-Fir	Poletimber Medium	7.6	70	51-80	N/A	Moderate quality mixed conifer stand. Most of the stand is wet except for a small upland knob at the north end. The southern half of the stand stand slopes down slightly to the east, and there are some areas where seeps and drainages are present. Some of the wettest areas have low stocking. Scattered tamarack mortality in the south half of the stand where it is more abundant. Average ba/acre from 4 plots = 73 square feet.																																															
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58	622 - Lowland Shrub	Nonstocked	3.6		Unspecified	No	Only looked at the west edge. Stand is a solid block of alder. Some BAM coming in along the west edge.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
59	3302 - Low Density Conifer Trees	Nonstocked	5.7		Unspecified	No	This stand was cut by Champion in 1985 in the sale Tubbs Creek North (#53-037-83-01). Elk browse eliminated almost all aspen and any other deciduous species regen. What's left are mostly scrubby, open-grown white pine and jack pine. Rolling terrain.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		White Pine	Medium	>20 feet	Pole			
		White Pine	Medium	>20 feet	Log			
		Jack Pine	Medium	>20 feet	Pole			
		Red Pine	Low	>20 feet	Pole			
		Red Pine	Low	>20 feet	Log			
		White Pine	Medium	Variable	Sapling			
		Jack Pine	Medium	Variable	Sapling			
		Red Pine	Low	Variable	Sapling			
		Quaking Aspen	Trace	>20 feet	Pole			
		Black Cherry	Medium	Variable	Tall Shrub			
60	42200 - Natural White Pine	Sawtimber Medium	13.9	57	51-80	N/A	Moderate quality white pine stand, much better quality than the adjacent stand to the west. The north half of the stand is mostly white pine and has better stocking. The south half of the stand has more red pine mixed in and is more open grown. This stand had an aspen removal harvest in 1994 in the sale Sawdust Pile East Aspen (#53-018-93) by Georgia Pacific, but almost no aspen regenerated due to browse. Average ba/acre from 7 plots = 61 square feet. Current age comes from a 17" DBH red pine, the open nature of the stand has allowed these trees to put on a ton of growth.	
		Canopy Species		% Cover	Size Class	DBH		Age
		White Pine	88	Log/Pole/XLog	13	57		
		Red Pine	10	Log/Pole/XLog	14			
		Red Maple	1	Pole	7			
		Bigtooth Aspen	1	Pole	8			
		Sub-Canopy Species		Density	Avg. Height	Size		
		Cherry (spp.)	Medium	Variable	Tall Shrub			
		Quaking Aspen	Trace	10 - 20 feet	Sapling			
		Red Pine	Trace	5 - 10 feet	Sapling			
		White Pine	Low	Variable	Sapling			
61	4133 - Aspen, Mixed Pine	Poletimber Well	4.4	55	111-140	N/A	Pretty nice aspen stand that is ready to cut. The white pine poletimber is overtopped and low quality. Average ba/acre from 4 plot s= 118 square feet. Flat terrain. Corner is in.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Quaking Aspen	73	Pole/Log	8	55		
		White Pine	14	Pole/Log	8			
		Jack Pine	9	Pole/Log	8			
		Black Spruce	1	Pole	6			
		Balsam Fir	3	Pole/Log	8			
		Sub-Canopy Species		Density	Avg. Height	Size		
		White Pine	Low	Variable	Sapling			
		Balsam Fir	Low	Variable	Sapling			
		Black Spruce	Trace	Variable	Sapling			
		Black Cherry	Medium	5 - 10 feet	Tall Shrub			
62	42110 - Planted Red Pine	Sawtimber Well	5.8	54	81-110	N/A	Thinned in summer of 2019 in the sale Cabin Clearcut, #53-002-13-01, bought by Precision. Average residual ba/acre = 95 square feet. No planting records were found but this stand looks planted to me. Trace of red maple and white spruce poletimber.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Red Pine	96	Log/Pole	12	54		
		Quaking Aspen	1	Log	13			
		White Pine	3	Pole/Log	8			
		Sub-Canopy Species		Density	Avg. Height	Size		
		White Pine	Low	Variable	Sapling			
		Black Cherry	Low	5 - 10 feet	Tall Shrub			



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63	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	24.8	101	111-140	N/A	Variable swamp conifer stand. The south half is dominated by cedar with some very high quality groves, especially in the southeast corner east of Hodge Creek. There are a few areas of cedar decline in the wetter areas. The north half transitions to more of a Q type. Average ba/acre from 8 plots = 140 square feet. Hodge Creek flows through the length of the stand. The bridge over the stand is in disrepair and needs to be fixed soon. Did not visit the northeast part of the stand.																																																		
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64	330 - Low-Density Trees	Nonstocked	5.4		Unspecified	No	This stand was cut in 1994 in the sale Sawdust Pile East Aspen (#53-018-93) by Georgia Pacific. Regen failure. The only thing that has grown back is black cherry, but it will not reach merchantable form on this site. Some large diameter residual pine (>20" DBH).																																																		
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65	4133 - Aspen, Mixed Pine	Sapling Medium	22.4	36	1-50	N/A	This stand was cut by Champion in 1985 in the sale Tubbs Creek North (#53-037-83-01). The stand regenerated moderately well to aspen and there is also quite a bit of pine, both individually and in clumps. Previous inventory noted that this stand suffered heavy elk browse damage which may explain it's small size and poor quality. A small amount of wet ground on the far eastern side adjacent to the private property. Rolling terrain.																																																		
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Witch Hazel	Trace	5 - 10 feet	Tall Shrub																																																						
66	4130 - Aspen	Sapling Poor	28.5	6	Immature	N/A	Stand cut in the sale Beginner's Luck Aspen in the winter of 2014-15. Whole tree harvest, cut by a Tulgetzka flail crew. This was formerly a fully-stocked aspen stand, evidence of what the former stand used to be can be seen in the southern retention pocket. Aspen initially regenerated well but has been absolutely hammered by elk browse, with most of the west half of the stand being converted to a non-forested condition. As you move east and get closer to the road the browse impacts slightly decrease but I'm still doubtful much of the regen in this area will survive. In general, quaking aspen is more prevalent in the north half while bigtooth aspen is more prevalent in the south, but there doesn't appear to be much of a difference in browse severity between the two species. Elk are still very active in the stand. The majority of this stand sits on good soils, Blue Lake loamy sands, and should be able to regenerate hardwoods. Yet another productive site lost to browse.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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67	42290 - Natural Mixed Pine	Sawtimber Medium	20.5	54	51-80	N/A	<p>This stand was cut in 1994 in the sale Sawdust Pile East Aspen (#53-018-93) by Georgia Pacific, everything was cut except for red and white pine. Regeneration has not come back very well with the exception of a few small patches of nice red and white pine regeneration, primarily in the north half of the stand. Basal areas tend to be sporadic but in general, stocking is much higher in the south half of the stand. There is a second age class of older pine in the stand but the majority of trees match the age noted for the stand. The cored age came from a 16" DBH red pine, so despite their younger age, these trees have been putting on a lot of growth and have already reached large diameters at a young age. Trace of bigtooth aspen, white spruce, and red maple in the overstory. Average ba/acre from 9 plots = 66 square feet. Gently rolling terrain.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	39	Log/Pole/XLog	13		White Pine	Medium		Variable	Sapling
Red Pine	57	Log/XLog	15	54	Red Pine	Low		Variable	Sapling
Quaking Aspen	2	Pole	7		Jack Pine	Trace		Variable	Sapling
Jack Pine	2	Log/Pole	10		Black Cherry	Medium		Variable	Tall Shrub
					Quaking Aspen	Trace	>20 feet	Sapling	

68	320 - Upland Shrub	Nonstocked	3.4		Unspecified	No	<p>This stand was cut in 1984 by Champion in the sale Tubbs Creek North (#53-037-83). Regeneration failure due to deer and elk. There are only a few scattered aspen that made it past the browse. A few scattered residual pine are present.</p>
Sub-Canopy Species	Density	Avg. Height	Size				
Quaking Aspen	Low	>20 feet	Pole				
Quaking Aspen	Trace	Variable	Sapling				
White Pine	Low	>20 feet	Log				
Red Pine	Trace	>20 feet	Log				
Red Pine	Trace	5 - 10 feet	Sapling				
White Pine	Trace	Variable	Sapling				
White Spruce	Trace	Variable	Sapling				
Black Cherry	High	5 - 10 feet	Tall Shrub				

69	42210 - Natural Red Pine	Sawtimber Well	11.1	85	111-140	N/A	<p>This stand was last cut in 1985 by Champion in the sale Tubbs Creek North (#53-037-83). Everything was cut except for red and white pine. For whatever reason, the far western end of the stand was not cut and still has some deciduous species mixed in. The pine is good quality and appears to be of natural origin, no planting records exist for this area. BA's vary considerably due to the species removal. There are some very large pine along the edges of the bog and there are some wet areas along the edges as well. Trace of paper birch and black spruce. Average ba/acre from 7 plots = 124 square feet. The west half of the stand has some steep slopes.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	27	Log/Pole/XLog	11		White Pine	Medium		Variable	Sapling
Red Pine	62	Log/Pole/XLog	13	85	Red Maple	Low		>20 feet	Sapling
Jack Pine	3	Pole	6		Red Pine	Trace		Variable	Sapling
Quaking Aspen	2	Pole/Log	9		Black Cherry	Low		Variable	Tall Shrub
Bigtooth Aspen	3	Pole/Log	9		Witch Hazel	Low		5 - 10 feet	Tall Shrub
Red Maple	3	Pole	6						

70	3205 - Mixed Upland Shrub	Nonstocked	8.2		Unspecified	No	<p>This was previously a forested stand and was harvested in 1985 by Champion in the sale Tubbs Creek North (#53-037-83). Elk browse eliminated almost all regeneration. Browse is still heavy to this day as even the black cherry are showing browse damage. Scattered red pine throughout, both individually and in clumps. An old railroad grade runs northwest/southeast along the northeast edge of the stand. At one point it looks like the grade splits into two separate routes.</p>
Sub-Canopy Species	Density	Avg. Height	Size				
Black Cherry	Low	5 - 10 feet	Tall Shrub				
Red Pine	Low	>20 feet	Log				
Red Pine	Low	>20 feet	Pole				
White Pine	Trace	>20 feet	Log				
Quaking Aspen	Low	Variable	Sapling				
Quaking Aspen	Trace	>20 feet	Pole				
Red Pine	Trace	< 5 feet	Seeding				
Quaking Aspen	Trace	< 5 feet	Seeding				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
71	42200 - Natural White Pine	Sawtimber Well	4.5	53	81-110	N/A	Moderate to low quality white pine. Stocking is much higher in the south half of the stand and quality increases as well. The spruce/fir component increases as you move south. This stand was harvested in 1985 leaving everything under 4" DBH so today's stand must have been all the advanced regeneration at that time. Average ba/acre from 5 plots = 96 square feet. Still young to consider a treatment, wait another 10-20 years.																																																			
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72	4130 - Aspen	Sapling Medium	17.0	35	51-80	N/A	This stand was harvested in 1985 by Champion in the sale Tubbs Creek North (#53-037-83). Elk browse was a significant factor impacting regeneration success and has created several areas with little or no regeneration. The aspen that did survive is very low quality and appears very unhealthy, which is likely a result of repeated browsing. There are only a few clones that are growing well. Trace of black spruce poletimber. Average ba/acre from 9 plots = 51 square feet. A small wet drainage is present at the far eastern side of the stand. Gently rolling terrain.																																																			
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73	4130 - Aspen	Poletimber Poor	6.0	48	1-50	N/A	Very poor quality, poorly-stocked aspen stand. Most of the quaking aspen is deformed and in decline. I'm guessing this is from all of the browse damage the trees sustained when they were younger. Heavy elk use in the stand. Average ba/acre from 5 plots = 26 square feet.																																																			
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74	4130 - Aspen	Poletimber Medium	12.6	48	81-110	N/A	Moderately quality aspen stand. Some poorly-stocked areas along the east/southeast part of the stand. Site quality increases the further west you go in the stand. Stand sits on an east facing slope. Currently under contract with Legendary Forest Products in the sale Yellow Gate Aspen (#53-003-20-01).																																																			
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75	310 - Herbaceous Openland	Nonstocked	4.9		Unspecified	No	Grassy opening that is a result of failed regeneration from browse after a clearcut in 1973. Not many trees are filling in. Black cherry shows browse damage. Far south end of the stand south of Sawdust Pile Road is a popular camping and parking area for hunters accessing the land south of the yellow gate.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
76	629 - Mixed non-forested wetland	Nonstocked	2.6		Unspecified	No	Tubbs Creek flows through this stand and there is a beaver dam at the east end with a small pond, not sure if active. The remainder of the stand is dead cedar with tag alder underneath along with some spruce and fir. There is a small patch of invasive phragmites in the central part of the eastern half of the stand.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Black Spruce		Low	Variable	Sapling		
		Balsam Fir		Low	Variable	Sapling		
		Tag Alder		Medium	10 - 20 feet	Tall Shrub		
		Phragmites (exotic)		Low	Unspecified	Non-Wood		
77	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	22.3	106	111-140	N/A	Swamp conifer stand of varying quality with Tubbs Creek running through the middle. There are some nice groves of cedar but there are also several areas of decline in the wetter ground. High quality spruce for the most part. Small inclusions of upland are present along the perimeter of the stand. The interior of the stand is very wet as is the southwest part of the stand, which is being flooded due to drainage issues on Tubbs Creek along the west edge of the stand. Beavers have dammed the creek in areas along the closed road in stand 94 which has now resulted in multiple channels of Tubbs Creek flowing into the stand, as opposed to one main channel. Average ba/acre from 7 plots = 131 square feet.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Balsam Fir		10	Pole	7		
		Black Spruce		32	Pole/Log	8		
		Northern White Cedar		48	Log/Pole	10		106
		Quaking Aspen		1	Log	13		
		Tamarack		3	Log/Pole	11		
		White Spruce		6	Log/Pole	13		
		Sub-Canopy Species		Density	Avg. Height	Size		
		Balsam Fir		Medium	Variable	Sapling		
		Black Spruce		Low	Variable	Sapling		
		Tag Alder		Medium	10 - 20 feet	Tall Shrub		
78	330 - Low-Density Trees	Nonstocked	3.7		Unspecified	No	Scattered clumps of trees, mostly aspen clones. This stand has been incorporated into the surrounding aspen clearcut in the sale Yellow Gate Aspen (#53-003-20-01), currently under contract with Legendary Forest Products.	
79	6233 - Wet Meadow	Nonstocked	13.4		Unspecified	No	Tubbs Creek flows through the stand. I'm guessing this was flooded at one time but it no longer is, and is now filling in with conifers and alder. Alder is heavier at the west end. The white pine component looks stressed and close to death. Scattered small patches of reed canary grass.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Tag Alder		Medium	Variable	Tall Shrub		
		Tamarack		Medium	Variable	Sapling		
		White Pine		Medium	Variable	Sapling		
		Balsam Fir		Low	Variable	Sapling		
		Black Spruce		Low	Variable	Sapling		
80	4130 - Aspen	Poletimber Well	19.5	36	81-110	N/A	Moderate quality aspen stand. Numerous wet pockets scattered throughout, some with a thick alder component. BAM tends to be in these wetter areas. Diameters vary on the aspen as there are a few areas with larger diameters (8-10"), although the majority of stems are still in the smaller poletimber size classes (5-8"). Trace of white spruce, jack pine, red maple, and cedar in the overstory. Average ba/acre from 10 plots = 84 square feet. Stand should be ready for a harvest next entry. Protect all wet areas.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Balsam Poplar		23	Pole	7		
		Balsam Fir		3	Pole	6		
		White Pine		10	Log/Pole/XLog	12		
		Red Pine		4	Log/Pole	12		
		Quaking Aspen		60	Pole	7		36
		Sub-Canopy Species		Density	Avg. Height	Size		
		Balsam Fir		Low	Variable	Sapling		
		White Spruce		Low	Variable	Sapling		
		White Pine		Low	Variable	Sapling		
		Black Cherry		High	Variable	Tall Shrub		
		Tag Alder		Medium	10 - 20 feet	Tall Shrub		



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81	4134 - Aspen, Spruce/Fir	Poletimber Well	8.4	48	81-110	N/A	Moderate quality aspen stand. Trace of paper birch and red oak. Mostly flat terrain. Currently under contract with Legendary Forest Products in the sale Yellow Gate Aspen (#53-003-20-01).																																																								
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82	6120 - Lowland Cedar	Sawtimber Well	15.5	106	171-200	N/A	For the most part this is a high quality cedar stand. There are only a couple areas of decline, mostly along the eastern edge closer to Tubbs Creek. Upland inclusions are present along the west edge. The majority of the stand slopes gently down to the east. The finger that extends northwest has less cedar and more aspen, fir, and red maple. Trace of hemlock and white pine. Average ba/acre from 6 plots = 197 square feet.																																																								
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83	3205 - Mixed Upland Shrub	Nonstocked	1.6		Unspecified	No	This was previously a forested stand and was harvested in 1985 by Champion in the sale Tubbs Creek North (#53-037-83). Elk browse eliminated almost all regeneration. There are a few scattered aspen saplings but they appear unhealthy and close to death. Some clumps of conifers are present in the middle of the stand.																																																								
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84	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Poor	3.3	86	51-80	N/A	Mixed species stand that is a mix of upland and lowland. The east half of the stand has much wetter ground and is full of alder. The west half is more upland but has some lowland mixed in too. Trace of balsam fir and white spruce in the overstory. Average ba/acre from 4 plots = 73 square feet.																																																								
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85	4133 - Aspen, Mixed Pine	Poletimber Well	5.6	36	81-110	N/A	Aspen is primarily in the middle of the stand. Clumps of older red pine scattered throughout. Pine regeneration, mostly white pine, is prevalent along the south and east edges. Average ba/acre from 4 plots = 110 square feet. Stand may be ready for a harvest next entry.																																																									
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86	42290 - Natural Mixed Pine	Sawtimber Well	11.4	82	111-140	N/A	Stand cut in the winter of 2015-16 as part of Borrow Pit Red Pine (#53-019-13-01). Bought by Biewer, cut by a Timberline crew. A short, steep slope is present along the entire western edge of the stand and was excluded from the harvest, the cedar component can be found at the bottom of this slope. The far northern end has a lot of poletimber and was also excluded. In general, this is a high quality stand and is of natural origin, except for some younger planted red pine which is mostly along the eastern edge of the stand. Average ba/acre from 5 plots = 130 square feet. Manage for uneven-aged structure and maintaining the large diameter trees. Might be ready for a thinning next entry.																																																									
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87	42200 - Natural White Pine	Poletimber Medium	2.2	58	1-50	N/A	Stand cut in the winter of 2015-16 as part of Borrow Pit Red Pine (#53-019-13-01). Bought by Biewer, cut by a Timberline crew (Bill Axford). All aspen and jack pine were cut except for a few jack pine seed trees. Lots of coarse woody debris from jack pine that had already died prior to sale set-up. Nice white pine poletimber although not too abundant. White pine is filling in well in some areas. Jack pine likely won't regenerate due to lack of scarification and higher basal areas. Average ba/acre from 3 plots = 47 square feet.																																																									
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88	42110 - Planted Red Pine	Sawtimber Well	122.2	58	111-140	N/A	Nice developing red pine stand. Thinned in the winter of 2015-16 as part of Borrow Pit Red Pine (#53-019-13-01). Bought by Biewer, cut by a Timberline crew. Prescription said to create gaps and a few were created but the majority of this stand was a third row thinning. There is some variability in the stand though as the north part has more aspen in it and rows are hard to distinguish in spots. Most of the aspen component is very poor quality and should be allowed to senesce to benefit wildlife. The northwest edge of the stand is on a slight side slope and is more of a spruce/fir mix and wasn't included in the harvest. Average ba/acre from 20 plots = 129 square feet. Should be ready for a second thinning next entry.																																																									
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89	42110 - Planted Red Pine	Sawtimber Well	9.7	58	111-140	N/A	This stand was thinned in the winter of 2015-16 in the sale Borrow Pit Red Pine, bought by Biewer. There is a large component of natural white pine in this stand, making it different from stand 88. The red pine wasn't planted very dense in this stand so diameter growth is good for its age. A few small areas composed primarily of younger regeneration. Average ba/acre from 4 plots = 123 square feet. Thin next entry period.																				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size																	
White Pine		34	Log/Pole/XLog	12		Balsam Fir		Trace	Variable	Sapling																	
Red Pine		60	Log/Pole	12	58	White Pine		Low	Variable	Sapling																	
Red Maple		3	Pole	7		Red Pine		Trace	>20 feet	Sapling																	
Balsam Fir		2	Pole/Log	8		Black Cherry		Medium	5 - 10 feet	Tall Shrub																	
White Spruce		1	Log/Pole	11																							
90	42210 - Natural Red Pine	Sawtimber Medium	5.5	86	1-50	N/A	Stand cut in the winter of 2015-16 as part of Borrow Pit Red Pine (#53-019-13-01). Bought by Biewer, cut by a Timberline crew (Bill Axford). All aspen and jack pine were harvested out of this unit of the sale as well as some marked red pine. No whole-tree skidding took place so jack pine is not seeding in well. Aspen regeneration is not present. Basal areas are much lower east of the road. Lots of coarse woody debris from dead jack pine. Average ba/acre from 4 plots = 75 square feet. Consider a seed-tree harvest next entry. No planting records available, this may be natural red pine.																				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size																	
Red Pine		96	Log/XLog/Pole	15	86	White Pine		Low	Variable	Sapling																	
Jack Pine		2	Pole/Log	8		White Pine		Low	< 5 feet	Seeding																	
White Pine		2	Log/Pole	12		Red Pine		Trace	Variable	Sapling																	
						Red Pine		Trace	< 5 feet	Seeding																	
						Balsam Fir		Trace	Variable	Sapling																	
91	42200 - Natural White Pine	Sawtimber Poor	19.8	58	1-50	N/A	This stand was clearcut in 1984 with scattered strips of pine left as residual (see imagery). The strips tend to run northeast to southwest. Old inventory notes show that elk killed almost all deciduous species regeneration. The stand has not filled in very well with regeneration over the years and instead has numerous non-forested areas mixed in throughout. The white pine is bushy and open-grown. Some autumn olive in the southern part of the stand. Average ba/acre from 5 plots = 36 square feet. Rolling terrain with a short, steep slope along the west edge. Deer and elk use is still heavy in the stand.																				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size																	
Quaking Aspen		10	Pole	6		White Pine		Medium	Variable	Sapling																	
Balsam Fir		16	Pole/Log	8		Balsam Fir		Low	Variable	Sapling																	
White Spruce		2	Pole/Log	8		Jack Pine		Trace	Variable	Sapling																	
White Pine		61	Log/Pole	12	58	Quaking Aspen		Trace	>20 feet	Sapling																	
Red Pine		10	Log/Pole	13		Red Pine		Trace	< 5 feet	Seeding																	
Jack Pine		1	Pole/Sapling	5		Black Cherry		Low	Variable	Tall Shrub																	
						Autumn Olive		Trace	5 - 10 feet	Tall Shrub																	
92	4133 - Aspen, Mixed Pine	Poletimber Poor	18.6	36	1-50	N/A	This stand was clearcut in 1985 but did not regenerate well. The central part of the stand is well-stocked with aspen but the remainder is poorly-stocked. A few scattered wet areas that are mostly non-forested and filled with alder. The north end is mostly all lowland. Quaking aspen diameters vary significantly. Larger stems are mostly along the edges of the wet areas. Average ba/acre from 8 plots = 43 square feet. Heavy deer and elk use.																				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size																	
Balsam Fir		2	Pole	6		Tag Alder		Medium	10 - 20 feet	Tall Shrub																	
White Pine		12	Pole/Log	8		Nannyberry		Trace	5 - 10 feet	Tall Shrub																	
Red Pine		2	Pole/Log	8		Black Cherry		Medium	Variable	Tall Shrub																	
Jack Pine		6	Pole	6		Red Pine		Trace	Variable	Sapling																	
Balsam Poplar		7	Pole/Log	8		Balsam Fir		Trace	Variable	Sapling																	
Quaking Aspen		71	Pole/Sap/Log	6	36	Jack Pine		Trace	Variable	Sapling																	
						White Pine		Medium	Variable	Sapling																	
93	6225 - Bog	Nonstocked	1.0	0	Unspecified	No	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Leatherleaf</td> <td>Full</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling	White Pine	Trace	>20 feet	Pole	White Pine	Trace	>20 feet	Log	Leatherleaf	Full	< 5 feet	Tall Shrub
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
94	629 - Mixed non-forested wetland	Nonstocked	23.4		Unspecified	No	Long linear stand that alternates between meadows and areas dominated by tag alder. Tubbs Creek flows north through the entire stand and is joined by a few small tributaries. There are a couple areas that are filling in with spruce, fir, tamarack, and balsam poplar. Meadows tend to be in areas that were flooded by beavers at one time. The far northern end of the stand stops at a closed road and is currently dammed by beavers, causing Tubbs Creek to spill over multiple spots over the road.																																																																		
95	4134 - Aspen, Spruce/Fir	Poletimber Poor	10.8	36	1-50	N/A	This stand was clearcut in 1985 but did not regenerate well at all. Scattered clones of aspen are present but they are mostly low quality. Numerous wet areas mixed in throughout. Most of the wet areas are filled with thick lowland shrubs but a few are forested. Trace of red pine, white spruce, and paper birch. Average ba/acre from 6 plots = 42 square feet. An illegal ORV trail cuts south along the west edge of the stand, leading to a tree blind in the middle part of the stand. Several small trees have been cut in the area of the blind.																																																																		
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96	429 - Mixed Upland Conifers	Sawtimber Well	13.0	58	111-140	N/A	Moderate quality mixed species stand that is dominated by white pine. The north half has more pine, while the south half has more of the fir. There are some very large white pine along the west edge, including one that is greater than 40" DBH. Black spruce component is mostly along the west edge along with trace amounts of log-size cedar. Wet ground at the south end. Average ba/acre from 5 plots = 118 square feet.																																																																		
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97	629 - Mixed non-forested wetland	Nonstocked	9.5		Unspecified	No	Hodge Creek flows through the stand. Did not look at much of the stand other than a few spots along the edge. Looks like a lot of alder.																																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																	
98	320 - Upland Shrub	Nonstocked	10.3		Unspecified	No	This stand was clearcut in 1994 but browsing eliminated almost all regeneration. Only a few scattered clumps of aspen made it, primarily in the east half of the stand. Bushy, open-grown white pine are scattered throughout. Heavy deer and elk use. Gently rolling terrain.																	
								Sub-Canopy Species	Density	Avg. Height	Size													
								Quaking Aspen	Low	>20 feet	Sapling													
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Black Cherry	Medium	5 - 10 feet	Tall Shrub																					
99	6120 - Lowland Cedar	Poletimber Well	7.2	89	171-200	N/A	Pretty nice cedar stand with most trees in good health except for some decline along the eastern edge. A little bit of upland along the west edge. Hodge Creek flows north through the eastern part of the stand. Trace of tamarack, red maple, quaking aspen, and balsam poplar in the overstory. Average ba/acre from 3 plots = 190 square feet. No management due to the stream influence.																	
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size								
								Balsam Fir	4	Pole	6		Tag Alder	Low	10 - 20 feet	Tall Shrub								
								Black Spruce	9	Pole/Log	8		Balsam Fir	Low	Variable	Sapling								
								Northern White Cedar	81	Pole/Log	9	89												
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								100	42110 - Planted Red Pine	Sawtimber Well	1.0	70	141-170	N/A	Stand thinned in winter of 2015-16 as part of Borrow Pit Red Pine (#53-019-13-01). Bought by Biewer, cut by a Timberline crew. Variable stocking and diameters. Trace of XL-sized natural red pine. Average ba/acre from 2 plots = 160 square feet. I'm assuming this stand was planted at one time although there are no planting records for the area.									
																Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
																Red Pine	97	Log/Pole/XLog	10	70	Balsam Fir	Trace	Variable	Sapling
																Bigtooth Aspen	3	Log	11		Black Cherry	Low	5 - 10 feet	Tall Shrub
101	4136 - Aspen, Mixed Conifer	Sapling Medium	20.3	27	Immature	N/A	This stand was clearcut in 1994 and regenerated moderately well although there are numerous areas of lower stocking. Aspen diameters vary significantly with the majority of stems being in the 3-5" range, however there are some areas where diameters are in the 5-7" range. Most aspen have damaged boles from past elk girdling. An elk enclosure is present at the far northeast corner adjacent to stands 135 and 172, the difference is obvious. A small amount of residual red and white pine were left. A small inclusion of white pine poletimber and sawlog-sized trees were left uncut at the southeast corner of the stand. Rolling terrain. Heavy deer and elk use with numerous game trails.																	
																Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
																Bigtooth Aspen	7	Pole/Sapling	5		White Pine	Medium	Variable	Sapling
																White Spruce	2	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
																White Pine	15	Pole/Sap/Log	5		Black Cherry	Medium	5 - 10 feet	Tall Shrub
																Balsam Fir	6	Pole/Sap/Log	6					
																Red Pine	3	Pole/Sap/Log	5					
																Quaking Aspen	67	Sapling/Pole	4	27				



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102	4134 - Aspen, Spruce/Fir	Poletimber Well	17.4	43	111-140	N/A	This stand was clearcut in 1978 and regenerated well to mostly aspen and fir. Aspen diameters tend to vary considerably, with larger diameters near areas of wet ground. Diameters are smaller in areas where there is a lot of fir competition. Numerous wetlands, vernal pools, and drainages are present throughout the stand. Trace of cedar, paper birch, and white pine. The BAM, cedar, and paper birch are along the edges of the wet areas. Average ba/acre from 9 plots = 127 square feet. Rolling terrain. Successful regeneration of this stand is doubtful due to the high browse pressure in the area. All water features should be protected with buffers if a harvest is prescribed.																																																													
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103	2113 - Forage Crops	Nonstocked	4.2		Unspecified	Managed Opening	Food plot. Has not been managed for a few years so there is some BAM coming in along the edges.																																																													
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104	6120 - Lowland Cedar	Poletimber Medium	8.8	89	51-80	N/A	Poor-quality cedar stand with a lot of the cedar dead or dying. A thick understory of swamp conifers is present in many places. Very wet stand, older imagery shows that this stand was flooded at one time. Average ba/acre from 4 plots = 73 square feet. Dense understory and numerous windthrown trees make this a very difficult stand to get through.																																																													
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105	4133 - Aspen, Mixed Pine	Poletimber Well	28.4	43	81-110	N/A	Mediocre aspen stand with a significant pine component. The pine is generally high quality, while the aspen is mostly low quality. A variety of ages and sizes of pine are present, including some very large diameter trees (20"+ DBH). Some dense clumps of pine are scattered throughout, more common in the north half, with some areas heavy to white pine poletimber. A few wet areas can be found along the east edge and the southwest part of the stand. Trace of paper birch, black spruce, and jack pine. Average ba/acre from 13 plots = 87 square feet. Rolling terrain.																																																													
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106	42210 - Natural Red Pine	Sawtimber Well	7.4	72	111-140	N/A	Nice red pine stand. Unclear if planted or natural as there are no planting records. Possibly two-aged as there some large trees mixed in throughout. Age came from a 14" DBH red pine, previous inventory recorded an age of 107. Stand thinned in the winter of 2015-16 as part of Borrow Pit Red Pine (#53-019-13-01). Bought by Biewer, cut by a Timberline crew. Fir component mostly along the north/northeast edge. Trace of white spruce. Average ba/acre from 5 plots = 132 square feet.																																																													
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107	6122 - Black Spruce	Poletimber Medium	3.3	78	51-80	N/A	This is basically two small stands. The southern 1/3rd of the stand is scattered, poor-quality cedar with a heavy lowland shrub understory. The northern 2/3rds of the stand is primarily black spruce with a sphagnum bog understory. Average ba/acre from 4 plots = 78 square feet.																																																													
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108	42360 - Upland Cedar	Sawtimber Well	7.9	89	81-110	N/A	Scattered cedar overstory with a thick fir understory. Apparently, portions of the north half of the stand were cut at the same time as stand 115. Some larger mixed conifers and white pine are present in the southern half of the stand. The cedar is mostly healthy with some large diameter trees present. The ground is mostly dry in the east half of the stand but transitions to wetter ground as you get closer to the west edge. Average ba/acre from 4 plots = 105 square feet.																																																													
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109	42340 - Upland Spruce/Fir	Poletimber Medium	23.6	36	51-80	N/A	This stand was clearcut in 1985. Regeneration of aspen was largely unsuccessful due to browse, however spruce and fir came back well in some areas. There are numerous north-south running strips of non-forested areas with little to no regeneration filling in. Diameters on most species vary significantly. Wet pockets, vernal pools, and drainages mixed in throughout. Rolling terrain. Lots of moss at the ground level. Trace of white pine poletimber. Average ba/acre from 12 plots = 80 square feet. Stand may possibly be ready for a harvest in 10 years. Look at doing a seed-tree/shelterwood with whole-tree skidding to promote ground scarification which will hopefully increase coverage of regeneration throughout the stand.																																																													
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110	6220 - Alder/willow	Nonstocked	29.5		Unspecified	No	Only looked at the edges of this stand but imagery shows it to be almost completely alder with scattered swamp conifers, a result of past beaver flooding. Multiple streams drain into this stand into the south half, eventually joining together and forming Hodge Creek in the north half.																																																													
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111	429 - Mixed Upland Conifers	Poletimber Medium	19.4	36	51-80	N/A	<p>This stand was clearcut in 1985 and did not regenerate well. Old inventory notes indicate that beavers removed a lot of aspen along the east edge and then browse had an impact on the remainder of the stand. Clumps of spruce and fir are now most common throughout. Aspen sizes vary considerably with diameters ranging anywhere from 4-10" DBH, although smaller poletimber is most common. Scattered wet pockets are common throughout. Average ba/acre from 5 plots = 58 square feet. The southern edge of the stand borders a small stream. Gently rolling terrain. Will not be ready for another entry or two. Protect all wet areas when a harvest is prescribed.</p>																																																																						
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112	6229 - Mixed lowland shrub	Nonstocked	6.6	0	Unspecified	No	<p>Wetland pocket with some scattered timber. Very wet. There used to be a lot of black ash in the stand but it is now all dead. The north end looks like it is filling in with conifers. I only walked through parts of the southern edge.</p>																																																																						
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113	2113 - Forage Crops	Nonstocked	4.6		Unspecified	Managed Opening	Managed food plot.																																																																						
114	4134 - Aspen, Spruce/Fir	Poletimber Well	25.2	43	111-140	N/A	<p>Nice aspen stand that was clearcut in 1985. Diameters tend to vary, with larger diameters near wet areas. There are numerous wetlands and vernal pools throughout the stand. Many of these wet areas are connected by small drainages. Bigtooth aspen mostly at the far western end. Some log-size fir, spruce, and red maple are present but rare. Trace of cedar, elm, paper birch, and white pine. Rolling terrain. Average ba/acre from 13 plots = 136 square feet. Saw 2 snowshoe hare at the southeast end. Successful regeneration of this stand is doubtful due to the high browse pressure in the area. All water features should be excluded and protected with a buffer if a harvest is prescribed.</p>																																																																						
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115	42340 - Upland Spruce/Fir	Poletimber Well	35.9	36	81-110	N/A	This stand was clearcut in 1985 and regenerated to primarily spruce and fir. A few scattered open areas of poor-stocking but otherwise the remainder of the stand is fully-stocked. Diameters on all species tend to vary with most areas just reaching merchantability, while other areas are in the large poletimber/small sawtimber size classes. Numerous wet areas along the east stand line with some other wet pockets scattered throughout. The portion of the stand that extends west into stand 110 is very wet and doesn't look like it was a part of the initial harvest. Most of the cedar can be found along the edges of the stand. Trace of paper birch, tamarack, black cherry, and white pine in the overstory. Average ba/acre from 10 plots = 98 square feet. Stand will likely be ready for a harvest next entry period.																																																									
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116	4134 - Aspen, Spruce/Fir	Poletimber Poor	21.6	26	Immature	N/A	This stand was clearcut in 1995 and did not regenerate well, with browse likely being the main reason. Some scattered clumps of advanced spruce and fir regeneration were left. Aspen diameters tend to vary with some larger trees present, although most are in the 4-6" diameter range. Numerous wetland pockets and drainages are scattered throughout and were not protected during the harvest. Trace of red maple, cedar, and white pine. Gently rolling terrain.																																																									
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117	4134 - Aspen, Spruce/Fir	Poletimber Well	33.2	43	111-140	N/A	Dense stand of aspen and fir. Numerous wetland pockets and drainages scattered throughout. Heavy fir understory in spots. Aspen diameters tend to vary. Trace of elm, cedar, white pine, and black cherry. Paper birch, elm, and cedar are found in or near the wet spots. Old charred white pine stumps can be found in some places. Average ba/acre from 12 plots = 124 square feet. Rolling terrain. Successful regeneration is doubtful here due to elk browse. Also, the numerous water influences must be protected if a harvest is prescribed.																																																									
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118	6120 - Lowland Cedar	Poletimber Well	15.2	85	111-140	N/A	Lowland cedar stand of varying quality. In general, the east and south portions of the stand are low quality with a lot of declining cedar. The northwest/west parts of the stand have some groves of high quality, healthy cedar. Trace of quaking aspen, BAM, red maple, and paper birch. Average ba/acre from 6 plots = 115 square feet. A small stream flows east/northeast through the stand, along with another small stream at the far northern end. A small upland knob is present at the north end.																																																									
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119	2113 - Forage Crops	Nonstocked	6.7		Unspecified	Managed Opening	Managed food plot, although it was not planted in 2020. Some quaking aspen is seeding into the south part of the west finger.																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
120	6220 - Alder/willow	Nonstocked	4.2		Unspecified	No	A stream flows north through the middle of the stand. Only walked through the southern portion of the stand. From imagery it looks like a lot of fir has filled in the north half.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Balsam Fir	Medium	Variable	Sapling			
		Black Spruce	Trace	>20 feet	Pole			
		Balsam Fir	Low	>20 feet	Pole			
		Paper Birch	Trace	>20 feet	Sapling			
		Tag Alder	High	10 - 20 feet	Tall Shrub			
		Cattail spp.	Low	Unspecified	Non-Wood			
121	4319 - Mixed Upland Forest	Poletimber Medium	20.9	36	51-80	N/A	This stand was clearcut in 1986 and regenerated only moderately well. Aspen seemed to regenerate better in the wetter ground. Several areas of poor-stocking mixed in throughout. Fir and spruce are dominant in most areas. Diameters on the aspen and fir vary considerably, with a few areas in the 8-11" diameter range while others are in the 4-6" diameter range. Trace of paper birch and elm poletimber, trace of white pine sawtimber trees. Average ba/acre from 7 plots = 73 square feet. Some of the lowland areas are very wet and should be protected the next time a harvest is prescribed.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Balsam Fir	40	Pole/Sap/Log	6	36		
		Red Maple	1	Log/Pole	10			
		Balsam Poplar	5	Pole	6			
		White Spruce	16	Pole/Log	8			
		Quaking Aspen	38	Pole/Sap/Log	7			
		Sub-Canopy Species		Density	Avg. Height	Size		
		Balsam Fir	Medium	Variable	Sapling			
		White Spruce	Low	Variable	Sapling			
		White Pine	Trace	Variable	Sapling			
		Black Cherry	Low	Variable	Tall Shrub			
		Tag Alder	Low	10 - 20 feet	Tall Shrub			
122	6130 - Fir, Aspen, Maple	Sawtimber Medium	14.6	75	51-80	N/A	Somewhat unique stand due to its species mix and the presence of some large diameter trees, particularly the basswood and red maple. Most species display good quality and growth. Not well-stocked in all areas mostly due to the fact that black ash used to be a large component of the stand, mostly in the middle part, but it is now all dead and blown over. A small upland knob is present at the northwest side of the stand. A stream runs north through the eastern side of the stand. Average ba/acre from 5 plots = 58 square feet.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Red Maple	9	Log/XLog	14			
		Paper Birch	9	Log/Pole	11			
		Balsam Poplar	25	Log/Pole	11	75		
		Balsam Fir	25	Pole/Log	8			
		White Spruce	10	Pole/Log	8			
		Northern White Cedar	7	Log/XLog	14			
		Basswood	10	Log/XLog	14			
		Quaking Aspen	5	Log	13			
		Sub-Canopy Species		Density	Avg. Height	Size		
		Balsam Fir	Low	Variable	Sapling			
		Balsam Poplar	Medium	Variable	Sapling			
		White Spruce	Trace	Variable	Sapling			
		Tag Alder	Medium	10 - 20 feet	Tall Shrub			
123	6120 - Lowland Cedar	Poletimber Medium	36.0	89	81-110	N/A	Wet, poor-quality cedar stand with a lot of areas in decline. The only areas of decent cedar quality are along the upland edge to the east as well as an area of drier ground in the central part of the stand closer to the southern edge. Very heavy fir understory in parts of the stand. Average ba/acre from 5 plots = 100 square feet.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Northern White Cedar	76	Pole/Log	8	89		
		Quaking Aspen	1	Log	13			
		Red Maple	2	Pole	7			
		Paper Birch	3	Pole	8			
		Balsam Poplar	2	Log/XLog	14			
		Black Spruce	8	Pole/Log	8			
		Balsam Fir	8	Pole	6			
		Sub-Canopy Species		Density	Avg. Height	Size		
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		Tag Alder	Low	Variable	Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
124	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	3.9	60	81-110	N/A	Moderate quality mixed species stand. The central part of the stand is on a knob with slopes going down to the north, west, and south throughout the remainder of the stand. More aspen in the north part of the stand, the majority of it is very low quality. The south end has most of the spruce/fir component as it starts to transition to lowland. The pine is decent quality and still young, needs several more years of growth before considering a treatment. Average ba/acre from 4 plots = 88 square feet.																																																													
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125	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	2.1	85	81-110	N/A	Transitional stand on a southward facing slope that is about a 50/50 split between upland and lowland. Nice spruce. A few clumps of cedar. Trace of tamarack. Average ba/acre from 4 plots = 88 square feet.																																																													
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126	429 - Mixed Upland Conifers	Sawtimber Well	2.1	80	111-140	N/A	Mixed species stand sitting on an upland knob. The far northern end of the stand drops down to lowland. Low-quality, overmature aspen. Nice spruce. A couple of very large white pine (25"+ DBH). Average ba/acre from 4 plots = 110 square feet.																																																													
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127	320 - Upland Shrub	Nonstocked	12.3	0	Unspecified	4319 - Mixed Upland Forest	Stand clearcut in June of 2019 in the sale Cabin Clearcut, #53-002-13-01, bought by Precision, cut by a Roundwood crew. A heavier residual was left at the request of the UM due to aesthetic concerns. Stand was formerly about a 50/50 split between red/white pine and aspen/red maple. Elk browse will be a concern here. 1/14/21 - Aspen has sprouted moderately well but, as expected, is being browsed by elk. The damage doesn't seem too severe at this time.																																																													
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128	6120 - Lowland Cedar	Poletimber Medium	3.2	85	81-110	N/A	Small lowland conifer stand of varying quality. The east half has a lot of smaller stems with a dense fir understory. The west half is dominated by cedar with not nearly as much fir in the understory. A lot of older cedar blowdown in the west half. The cedar that is still standing is healthy. Average ba/acre from 5 plots = 92 square feet.																																																											
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129	310 - Herbaceous Openland	Nonstocked	3.3	0	Unspecified	No	ROW. There is a lot of autumn olive in portions of the stand.																																																											
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Autumn Olive	Medium	5 - 10 feet	Tall Shrub																																																															
131	4130 - Aspen	Poletimber Well	1.3	47	81-110	N/A	Thin sliver of aspen. Sits on a slight southeast facing slope. Average ba/acre from 3 plots = 93 square feet.																																																											
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132	310 - Herbaceous Openland	Nonstocked	3.3		Unspecified	No																																																												
133	6229 - Mixed lowland shrub	Nonstocked	1.7	0	Unspecified	No	Hodge Creek flows through the east side. Quite a bit of tamarack is filling in along the west side.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
134	6220 - Alder/willow	Nonstocked	0.7		Unspecified	No	Small, wet depression that has bog characteristics such as sphagnum.																																																	
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135	4130 - Aspen	Poletimber Well	1.7	43	81-110	N/A	Mediocre aspen stand. The south half of the stand is better quality. Average ba/acre from 2 plots = 105 square feet.																																																	
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136	2113 - Forage Crops	Nonstocked	1.8		Unspecified	Managed Opening	Maintained opening. Small clump of black cherry on the east side along with a single clump of barberry and crabapple.																																																	
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137	310 - Herbaceous Openland	Nonstocked	0.4	0	Unspecified	No	Stand created following it's use as a landing for an adjacent aspen clearcut to the southwest. Stand will be used as a landing again for the adjacent sale to the east in stand 81.																																																	
138	4311 - Pine, Aspen Mix	Poletimber Well	12.8	45	51-80	N/A	Stand consisting of a near 50/50 mix of white pine and aspen. White pine is more abundant in the east finger of the stand. The aspen is very poor quality and appears in decline in areas, especially the further east you go in the stand. Average ba/acre from 8 plots = 71 square feet. Hold and manage for white pine.																																																	
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139	42210 - Natural Red Pine	Sawtimber Well	5.0	87	141-170	N/A	Very nice stand of natural pine. Although rare, a second age class of much larger, older pine is present. The stand slopes down to the south. Trace of bigtooth aspen, black spruce, and cedar. Average ba/acre from 6 plots = 157 square feet. The previous landowners (Stevens) cabin is still on-site, located in the middle of the stand.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
140	42210 - Natural Red Pine	Sawtimber Well	29.2	90	111-140	N/A	Nice pine stand. Red pine is more dominant in the south half of the stand, the north half has more of a red pine/white pine mix. The stand was thinned in the winter of 2015-16 as part of Borrow Pit Red Pine (#53-019-13-01). Bought by Biewer, cut by a Timberline crew. Several stick nests were found during sale prep and excluded from the sale boundary. Numerous wet pockets are mixed in throughout, some of the wet areas are small bogs. Trace of white spruce, jack pine, balsam fir, and paper birch. Average ba/acre from 11 plots = 111 square feet. An old railroad grade runs north-south through the eastern part of the stand. Red pine in the southern 1/3rd of the stand looks planted but the rest of the stand appears to be natural. Due to the rarity of natural red pine stands, manage this stand on a longer rotation using uneven-aged techniques.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		60	Log/XLog	14	90	White Pine		Low	Variable	Sapling	
White Pine		27	Log/Pole/XLog	13		Tag Alder		Trace	10 - 20 feet	Tall Shrub	
Quaking Aspen		10	Log/Pole	11							
Red Maple		2	Pole/Log	8							
Jack Pine		1	Pole	7							
141	6124 - Lowland Spruce-Fir	Poletimber Medium	5.0	89	81-110	N/A	Moderate quality swamp conifer stand although stocking is poor in areas, especially the middle of the stand. A vein of cedar runs southwest-northeast through the west part of the stand, the remainder of the stand is a mix of species dominated by spruce and fir. Average ba/acre from 4 plots = 95 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Poplar		9	Pole	7		Tag Alder		High	Variable	Tall Shrub	
Black Spruce		28	Pole/Log	8	89	Balsam Fir		Low	Variable	Sapling	
Northern White Cedar		25	Log/Pole	11	111	Black Spruce		Low	Variable	Sapling	
Paper Birch		3	Pole	7		Paper Birch		Trace	>20 feet	Sapling	
Quaking Aspen		5	Pole/Log	8		Red Maple		Trace	>20 feet	Sapling	
Red Maple		5	Pole	7		Michigan Holly		Low	5 - 10 feet	Tall Shrub	
White Spruce		4	Log/Pole	11							
Balsam Fir		20	Pole	7							
Tamarack		1	Pole	8							
142	6220 - Alder/willow	Nonstocked	1.1	0	Unspecified	No		Wetland pocket with some scattered timber. There used to be a lot of black ash in the stand but is now all dead. Only looked at the edge.			
Sub-Canopy Species		Density	Avg. Height	Size							
Tag Alder		Full	10 - 20 feet	Tall Shrub							
Quaking Aspen		Trace	>20 feet	Pole							
Quaking Aspen		Trace	>20 feet	Log							
Balsam Poplar		Trace	>20 feet	Log							
Balsam Fir		Low	Variable	Sapling							
Balsam Fir		Trace	>20 feet	Pole							
143	6220 - Alder/willow	Nonstocked	0.5	0	Unspecified	No	Wetland pocket with some scattered timber. Very wet. Hard to tell but most of the black ash saplings look dead. Only looked at the edge.				
Sub-Canopy Species		Density	Avg. Height	Size							
American Elm		Trace	>20 feet	Pole							
Red Maple		Trace	>20 feet	Pole							
Balsam Fir		Trace	>20 feet	Pole							
Quaking Aspen		Trace	>20 feet	Pole							
Balsam Poplar		Trace	>20 feet	Pole							
Paper Birch		Trace	>20 feet	Pole							
Balsam Fir		Low	Variable	Sapling							
Black Ash		Low	Variable	Sapling							
Tag Alder		High	10 - 20 feet	Tall Shrub							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
144	429 - Mixed Upland Conifers	Poletimber Well	3.6	36	51-80	N/A	This stand was clearcut in 1985 with stand 95 to the north but came back mostly to conifers. The west half of the stand is mostly jack pine and white pine. While the east half transitions to more spruce and tamarack. Wet ground along the eastern edge.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Balsam Fir	5	Pole/Sapling	6		
		Black Spruce	29	Pole/Sapling	5	36	
		White Pine	16	Pole	6		
		Red Pine	3	Pole	8		
		Jack Pine	29	Pole	6		
		Quaking Aspen	9	Sapling/Pole	4		
		Tamarack	9	Pole	6		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Balsam Fir	Low	< 5 feet	Sapling		
		Black Cherry	Trace	Variable	Tall Shrub		
145	6229 - Mixed lowland shrub	Nonstocked	0.6	0	Unspecified	No	Very wet, some cattails at the north end. The south 1/2 of the stand has quite a bit of balsam poplar along with some spruce.
		Sub-Canopy Species	Density	Avg. Height	Size		
		Balsam Poplar	Medium	>20 feet	Pole		
		Quaking Aspen	Trace	>20 feet	Pole		
		Quaking Aspen	Trace	>20 feet	Log		
		Red Maple	Trace	>20 feet	Log		
		Northern White Cedar	Trace	>20 feet	Pole		
		Northern White Cedar	Trace	>20 feet	Log		
		White Spruce	Trace	>20 feet	Log		
		Balsam Fir	Trace	>20 feet	Pole		
		White Spruce	Trace	>20 feet	Pole		
		American Elm	Trace	>20 feet	Pole		
		Balsam Fir	Trace	Variable	Sapling		
		Paper Birch	Trace	Variable	Sapling		
		White Spruce	Low	Variable	Sapling		
		Tag Alder	Medium	5 - 10 feet	Tall Shrub		
		Michigan Holly	Medium	5 - 10 feet	Tall Shrub		
146	6229 - Mixed lowland shrub	Nonstocked	0.6	0	Unspecified	No	Heavy lowland shrub component.
		Sub-Canopy Species	Density	Avg. Height	Size		
		Balsam Fir	Low	Variable	Sapling		
		Paper Birch	Trace	>20 feet	Sapling		
		Balsam Poplar	Trace	Variable	Sapling		
		Balsam Poplar	Trace	>20 feet	Pole		
		Quaking Aspen	Trace	>20 feet	Pole		
		Michigan Holly	High	5 - 10 feet	Tall Shrub		
		Tag Alder	High	10 - 20 feet	Tall Shrub		
147	629 - Mixed non-forested wetland	Nonstocked	1.8		Unspecified	No	Did not visit this stand. Looks relatively open and without much alder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
148	6220 - Alder/willow	Nonstocked	0.5	0	Unspecified	No	Small wetland pocket with a lot of alder. There used to be some elm and black ash in the stand but they are now all dead.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	Trace	>20 feet	Pole
								Balsam Fir	Low	Variable	Sapling
								Paper Birch	Trace	Variable	Sapling
								Balsam Poplar	Trace	Variable	Sapling
Tag Alder	Full	10 - 20 feet	Tall Shrub								
149	6220 - Alder/willow	Nonstocked	0.8	0	Unspecified	No	Thick with alder.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Balsam Fir	Low	Variable	Sapling
								Red Maple	Trace	>20 feet	Pole
								Paper Birch	Trace	>20 feet	Pole
								Paper Birch	Trace	>20 feet	Sapling
Red Maple	Trace	>20 feet	Sapling								
Tag Alder	Full	10 - 20 feet	Tall Shrub								
150	6229 - Mixed lowland shrub	Nonstocked	0.9	0	Unspecified	No	Very wet lowland shrub stand. Lots of holly. There used to be a lot of black ash poletimber but it is now all dead. Only looked at the edges of the stand.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Northern White Cedar	Trace	>20 feet	Pole
								Quaking Aspen	Trace	>20 feet	Pole
								Balsam Poplar	Trace	>20 feet	Pole
								Balsam Fir	Trace	>20 feet	Pole
								White Spruce	Trace	>20 feet	Pole
								Paper Birch	Trace	>20 feet	Pole
								Balsam Fir	Low	Variable	Sapling
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								Michigan Holly	High	5 - 10 feet	Tall Shrub
Tag Alder	Medium	10 - 20 feet	Tall Shrub								
151	6229 - Mixed lowland shrub	Nonstocked	3.4	0	Unspecified	No	Only walked through the northern end and a small part of the southern end. The northern end is a bog with alder and holly mixed in. The east/southern part of the stand has less sphagnum but thicker lowland shrubs. Red maple, paper birch, fir, and spruce saplings mixed in throughout. Some quaking aspen poletimber at the far eastern end.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
152	6229 - Mixed lowland shrub	Nonstocked	0.5	0	Unspecified	No	Small wetland that used to have a lot of black ash but that is now all dead.

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Balsam Poplar	Trace	>20 feet	Pole
Quaking Aspen	Trace	>20 feet	Log
Northern White Cedar	Trace	>20 feet	Log
Paper Birch	Trace	Variable	Sapling
Tag Alder	High	10 - 20 feet	Tall Shrub
Michigan Holly	Medium	Variable	Tall Shrub

153	42340 - Upland Spruce/Fir	Poletimber Poor	7.8	36	1-50	N/A	This stand was clearcut in 1985. Old inventory notes indicate aspen regenerated well at the time but beavers have since removed almost all of it. What remains is scattered pockets of spruce and fir mixed in with numerous non-forested areas. Not much regeneration is filling in the non-forested areas. The spruce and fir is good quality but needs much more growth. Average ba/acre from 5 plots = 40 square feet. A few small wet areas along the east edge.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
Balsam Fir	42	Pole/Sap/Log	7	36	White Spruce	Low	Variable	Sapling
White Pine	18	Log/Pole/XLog	12		White Pine	Trace	Variable	Sapling
Red Pine	2	Log/XLog	17		Black Cherry	Low	Variable	Tall Shrub
White Spruce	33	Pole/Log	8		Tag Alder	Low	10 - 20 feet	Tall Shrub

154	6220 - Alder/willow	Nonstocked	0.5	0	Unspecified	No	Wet, filled mostly with alder. Looks like there may have been a few elm in the stand at one time but they are now fallen over.
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Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	>20 feet	Pole
Paper Birch	Trace	>20 feet	Pole
Red Maple	Trace	>20 feet	Pole
Balsam Fir	Trace	>20 feet	Pole
Balsam Fir	Trace	Variable	Sapling
Tag Alder	High	10 - 20 feet	Tall Shrub

155	6229 - Mixed lowland shrub	Nonstocked	0.5	0	Unspecified	No	Wet. Some trees along the edges but mostly filled with alder. There used to be a few black ash in the stand but they are now all dead.
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Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Trace	>20 feet	Pole
Balsam Poplar	Trace	>20 feet	Pole
Balsam Fir	Trace	>20 feet	Pole
Balsam Fir	Trace	Variable	Sapling
Tag Alder	High	10 - 20 feet	Tall Shrub
Michigan Holly	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
156	6229 - Mixed lowland shrub	Nonstocked	0.5	0	Unspecified	No	Wet stand. There used to be some black ash in the stand but it is now all dead. Lowland shrubs are present but not as thick as the other wetland pockets in the area.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Quaking Aspen	Trace	>20 feet	Pole					
								Quaking Aspen	Trace	>20 feet	Log					
								Balsam Fir	Trace	>20 feet	Pole					
								Tag Alder	Medium	10 - 20 feet	Tall Shrub					
Michigan Holly	Medium	5 - 10 feet	Tall Shrub													
157	6124 - Lowland Spruce-Fir	Sapling Well	6.5	36	51-80	N/A	This stand was clearcut in 1985 along with stand 95 and regenerated well to primarily spruce and fir. Ground is about a 50/50 mix of upland and lowland. A couple of very wet spots including a wet drainage that flows out of stand 141 and cuts east into stand 97 (L type).									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Balsam Fir	31	Sapling/Pole	4		Tag Alder	Medium	10 - 20 feet	Tall Shrub
								Black Spruce	34	Sapling/Pole	4	36	Nannyberry	Medium	5 - 10 feet	Tall Shrub
								Paper Birch	2	Sapling/Pole	4		Balsam Fir	Medium	Variable	Sapling
								Quaking Aspen	9	Sapling/Pole	4		Black Spruce	Medium	Variable	Sapling
								Tamarack	4	Pole	6					
								White Pine	8	Pole	6					
								White Spruce	12	Pole/Sapling	5					
								158	6220 - Alder/willow	Nonstocked	1.0	0	Unspecified	No	Wet stand with a heavy tag alder component.	
																Sub-Canopy Species
Balsam Poplar	Trace	>20 feet	Pole													
Quaking Aspen	Trace	>20 feet	Pole													
Balsam Poplar	Trace	Variable	Sapling													
Tag Alder	Full	10 - 20 feet	Tall Shrub													
159	6233 - Wet Meadow	Nonstocked	0.6	0	Unspecified	No	Filled with some type of marsh grass. Almost looks like reed canary grass but not sure?									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Quaking Aspen	Trace	>20 feet	Pole					
								Black Cherry	Trace	Variable	Tall Shrub					
								Tag Alder	Trace	10 - 20 feet	Tall Shrub					
Bog Willow	Trace	< 5 feet	Tall Shrub													
160	6229 - Mixed lowland shrub	Nonstocked	0.5	0	Unspecified	No	The west side is more of an open wetland with marsh grass. The remainder of the stand is an L type with a lot of alder.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Quaking Aspen	Trace	>20 feet	Pole					
								Black Cherry	Low	Variable	Tall Shrub					
								Tag Alder	High	10 - 20 feet	Tall Shrub					
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
161	42200 - Natural White Pine	Poletimber Medium	3.9	52	51-80	N/A	This stand was cut at the same time as adjacent aspen stands to the west but came back to mostly white pine. There is a small amount of aspen but it is very poor quality and unhealthy. There is evidence that there used to be more aspen in the stand but the majority of it has died. White pine stocking and quality is best in the middle parts of the stand. Stocking declines to the east and west. Jack pine is mostly at the southeast end of the stand. Average ba/acre from 3 plots = 67 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		17	Pole	6		White Pine		High	Variable	Sapling	
Jack Pine		12	Pole/Sapling	5		Jack Pine		Low	Variable	Sapling	
Red Pine		2	Log/Pole	12		Black Cherry		Low	Variable	Tall Shrub	
White Pine		69	Pole/Sapling	6	52						
162	6124 - Lowland Spruce-Fir	Poletimber Well	6.8	58	81-110	N/A	Diverse stand that is a transition from upland to lowland. The north end has more upland but the stand becomes progressively wetter along the east half and also most of the southern end is lowland. Some big diameter trees across all species. Spruce component appears to be a mix of both species. Average ba/acre from 4 plots = 93 square feet. Stand serves as a nice buffer for Hodge Creek.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		8	Pole/Log	8		Tag Alder		Low	10 - 20 feet	Tall Shrub	
Northern White Cedar		5	Log/Pole	10	111	Balsam Fir		Medium	Variable	Sapling	
Red Pine		1	Log/XLog	17		Black Spruce		Low	Variable	Sapling	
White Pine		5	XLog/Log	21		Red Maple		Low	Variable	Sapling	
Paper Birch		8	Pole/Log	8		Black Cherry		Low	Variable	Tall Shrub	
Red Maple		7	Log/Pole	12							
Quaking Aspen		8	Log/Pole/XLog	14							
Tamarack		2	Log/Pole	12							
White Spruce		9	Log/Pole/XLog	12							
Balsam Fir		47	Pole/Log	8	58						
163	42340 - Upland Spruce/Fir	Poletimber Medium	3.7	36	51-80	N/A		This stand was clearcut at the same time as adjacent stand 80, however beavers removed all of the aspen from this stand which has resulted in several non-forested areas mixed in throughout. The north edge of the stand is on a short, steep slope leading down to the marsh. A few small, seasonally wet areas with alder and balsam poplar. Average ba/acre from 5 plots = 68 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Maple		2	Pole/Log	8		Balsam Fir			Medium	Variable	Sapling
Balsam Fir		54	Pole/Sap/Log	7	36	White Spruce			Low	Variable	Sapling
White Spruce		14	Log/Pole	11		White Pine			Low	Variable	Sapling
White Pine		21	Log/Pole/XLog	11		Balsam Poplar			Trace	Variable	Sapling
Red Pine		2	Log/Pole	12		Black Cherry			Medium	Variable	Tall Shrub
Quaking Aspen		5	Pole/Log	8		Tag Alder			Low	10 - 20 feet	Tall Shrub
Black Spruce		2	Pole	6							
164	42110 - Planted Red Pine	Sawtimber Poor	2.7	58	1-50	N/A	Poorly-stocked stand. The stand was cut heavily in 1985, leaving only scattered red pine. It has not regenerated well. Average ba/acre from 3 plots = 33 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		74	Log/Pole	12	58	Black Cherry		High	Variable	Tall Shrub	
Jack Pine		25	Pole/Sapling	6	36	Jack Pine		Low	Variable	Sapling	
Quaking Aspen		1	Pole	5		White Oak		Trace	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
165	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	3.7	84	81-110	N/A	Mixed species stand that borders the Black River. The majority of the stand is poorly-stocked except for an inclusion of dense cedar at the far southern end. Thick understory of alder in most places. In the middle part of the stand a seep from the uplands forms a small stream which joins with the Black River. Trace of jack pine and American elm. Average ba/acre from 5 plots = 98 square feet.																																																												
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166	42290 - Natural Mixed Pine	Poletimber Poor	3.0	36	1-50	N/A	This stand was cut by Champion in 1985 in the sale Tubbs Creek North (#53-037-83-01). Elk browse eliminated almost all aspen and any other deciduous species regen. What's left are mostly scrubby, open-grown white pine and jack pine. Rolling terrain. The south part of the stand is mostly non-forested.																																																												
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167	6111 - Lowland Balsam Poplar	Sawtimber Poor	4.4	90	1-50	N/A	Lowland popple stand bordering the Black River. Wet organic soils. Some areas of blowdown throughout. A younger age class of BAM is present. Black ash and elm used to be a component of the stand but they are now all dead. The elm has died recently. Thick sedge/grass at the ground level including some reed canary grass. Average ba/acre from 5 plots = 36 square feet.																																																												
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168	4133 - Aspen, Mixed Pine	Sawtimber Well	13.6	58	81-110	N/A	Mostly a poor-quality aspen stand. A lot of it has poor form with conks and lots of decay. Clones of better quality can be found at the southern 1/3rd of the stand, diameters also tend to be smaller in this area as well. Nice conifer component although the white pine is only mediocre quality. Trace of red pine and paper birch. Average ba/acre from 7 plots = 109 square feet. Some autumn olive at the southeast end. Areas of wet ground at the far southern edge. Successful regeneration of this stand is doubtful due to the high browse pressure in this area.																																																												
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169	42330 - Upland Fir	Poletimber Well	2.1	43	81-110	N/A	This stand was apparently cut at the same time as stand 102 to the southeast. Regeneration came back primarily to fir with some aspen mixed in, although a lot of the aspen was removed along the edges. This stand is an upland knob isolated on most sides by low, wet ground although there is an old beaver dam at the southwest corner that connects to the food plot (stand #103), which is likely how equipment accessed the site. Average ba/acre from 3 plots = 107 square feet. A lot of small stems.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
170	4134 - Aspen, Spruce/Fir	Poletimber Poor	14.5	36	1-50	N/A	Poorly-stocked stand that was impacted by browse after being clearcut in 1985. Aspen diameters vary significantly, some areas are barely merchantable while others are in the 8-10" range. Same thing goes for the conifer component as there is a wide variety of diameters. It looks like some clumps of conifers were left as residual. Numerous wetlands and vernal pools are scattered throughout the stand. Larger diameter trees tend to be around the edges of the wet areas. Rolling terrain. Trace of red maple and elm. Average ba/acre from 5 plots = 44 square feet.																																																											
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171	310 - Herbaceous Openland	Nonstocked	0.8	0	Unspecified	No	Powerline ROW																																																											
172	42290 - Natural Mixed Pine	Poletimber Poor	2.5	43	1-50	N/A	This stand was clearcut at the same time as adjacent stand 105 and 136 but did not regenerate successfully. The north end is well-stocked but the remainder is not. It looks like a few residual pine were left as there are small amounts of XL-sized red and white pine, mostly at the north and south ends. Parts of the stand are slowly starting to fill in with mixed conifer regeneration. Quite a bit of porcupine damage in areas. Average ba/acre from 2 plots = 40 square feet.																																																											
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173	42290 - Natural Mixed Pine	Poletimber Well	6.3	42	81-110	N/A	Moderate quality mixed pine stand. Stocking is somewhat sporadic as the east and west ends have areas of lower stocking with more open grown trees. The middle part of the stand has some nice quality. A few larger, older red pine are mixed in. Average ba/acre from 4 plots = 95 square feet. Let grow and manage for white pine.																																																											
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178	4136 - Aspen, Mixed Conifer	Poletimber Well	6.3	34	81-110	N/A	This stand was harvested in 1987 in the sale Rocky Flat Aspen (53-036-83), bought by AJD. Regeneration came back well. Heavy white spruce component in the north end. The ground gets progressively wetter as you move south in the stand. Nice diversity of understory shrubs. Trace of paper birch and American elm poletimber. Average ba/acre from 6 plots = 82 square feet. May be ready in ten years for a harvest.																																																											
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