

Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53034
Entry Year 2024
Acreage: 1,905
County Otsego

Management Area: Pigeon River Country

Stand Examiner: Greg Rekowski

Legal Description:

T32N - R01W Sections 7, 8, and 9

Identified Planning Goals:

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

Soil and topography:

Flat to gently rolling terrain throughout most of the Compartment. Steeper slopes are present in stands adjacent to the Pigeon River. Sandy soils, such as Leelanau loamy sands and Lindquist sands, predominate except for a narrow band of organic soils located around the Pigeon River. Isolated leatherleaf peat bogs can be found in the Compartment.

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

Entirely state-owned lands.

Unique Natural Features:

Wood turtle, little brown bat, and Hill's thistle have the potential to occur in this Compartment. Ram's head lady's-slipper and northern goshawk have been documented in this Compartment.

Archeological, Historical, and Cultural Features:

The Pigeon River Headquarters is located just outside the southern edge of Section 9. Additional structures in the proximity of the Headquarters are from the CCC era, including the Manager's Residence, which has now been converted into a museum open to the public and is known as the Discovery Center. The P.S. Lovejoy Monument can be found in stand 109 adjacent to the Shingle Mill Pathway.

Special Management Designations or Considerations:

The Pigeon River is a state-designated Natural River.

Watershed and Fisheries Considerations:

A portion of the Pigeon River flows through the southeast corner of the Compartment. Ford Lake is a sinkhole lake and has special restrictions in place for fishing.

Wildlife Habitat Considerations:

A Wildlife Biologist will be available for comment at the Compartment Review.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Devonian Antrim Shale, quarried for clay/shale and cement products elsewhere in the State. The nearest gravel pit is one-half mile to the south, and potential is considered good on the upland areas. The Guelph (Niagaran) reef trend produces to the south and potential is minimal. There is oil and gas potential for known producing formations in this Compartment. However, the entire Compartment is in the Consent Order area and, as provided on page 33 of the Concept of Management, no new leases will be issued in this Area.

Vehicle Access:

There is good access to most of the Compartment. Most of the interior forest roads have been closed to wheeled motorized vehicles with all of these closures still intact.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The Pigeon River State Forest Campground is in the southeast corner of the Compartment. The Shingle Mill Pathway runs throughout Sections 8 and 9.

Fire Protection:

Access is generally good in case of any fire suppression efforts. Most closed roads are blocked with berms. Wildfire potential is high in this Compartment due to the large amount of pine.

Additional Compartment Information:

Garlic mustard and invasive honeysuckle can be found in stand 91 adjacent to the Pigeon River office complex.

The following reports from the Inventory are attached:

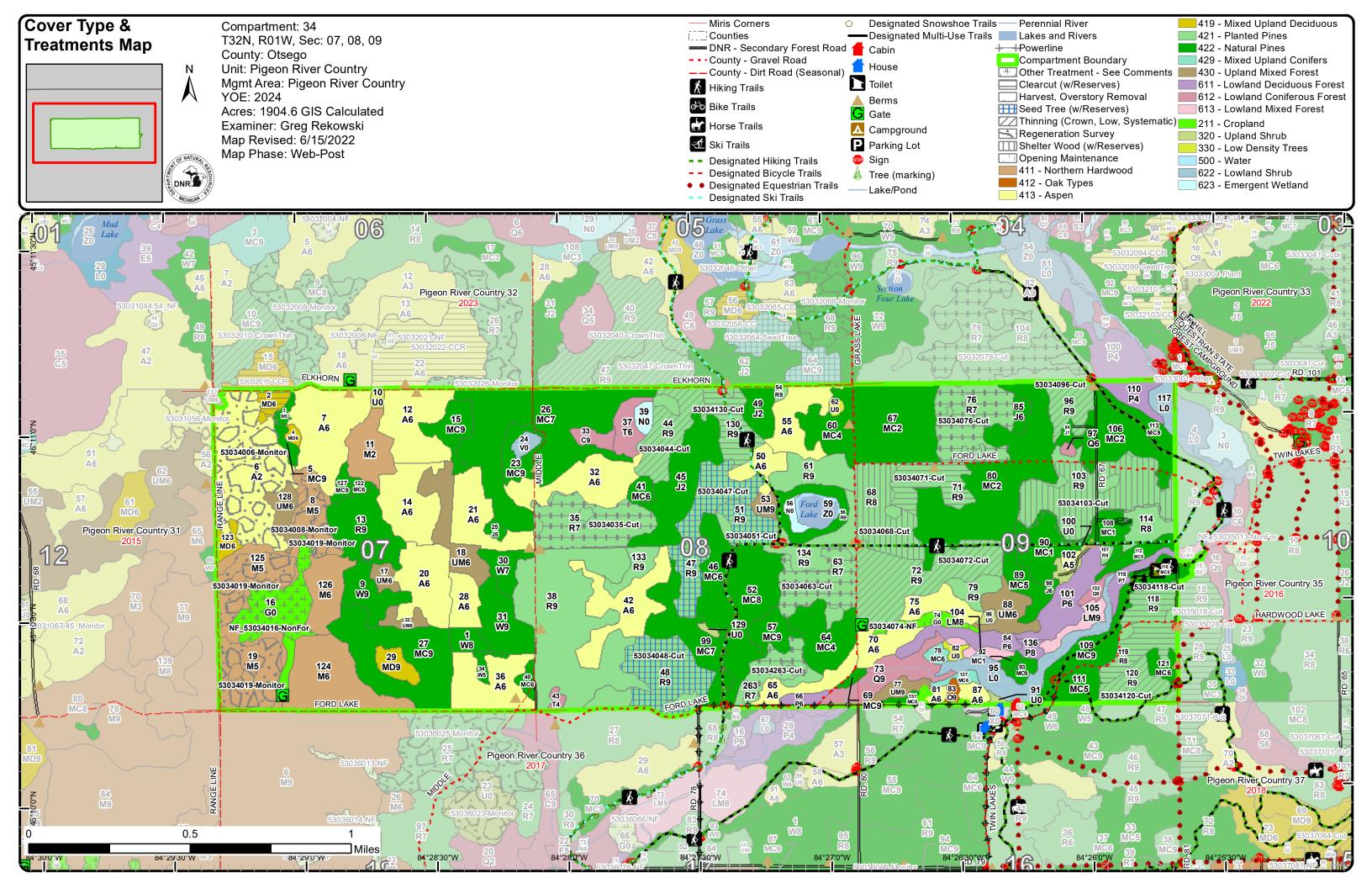
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas

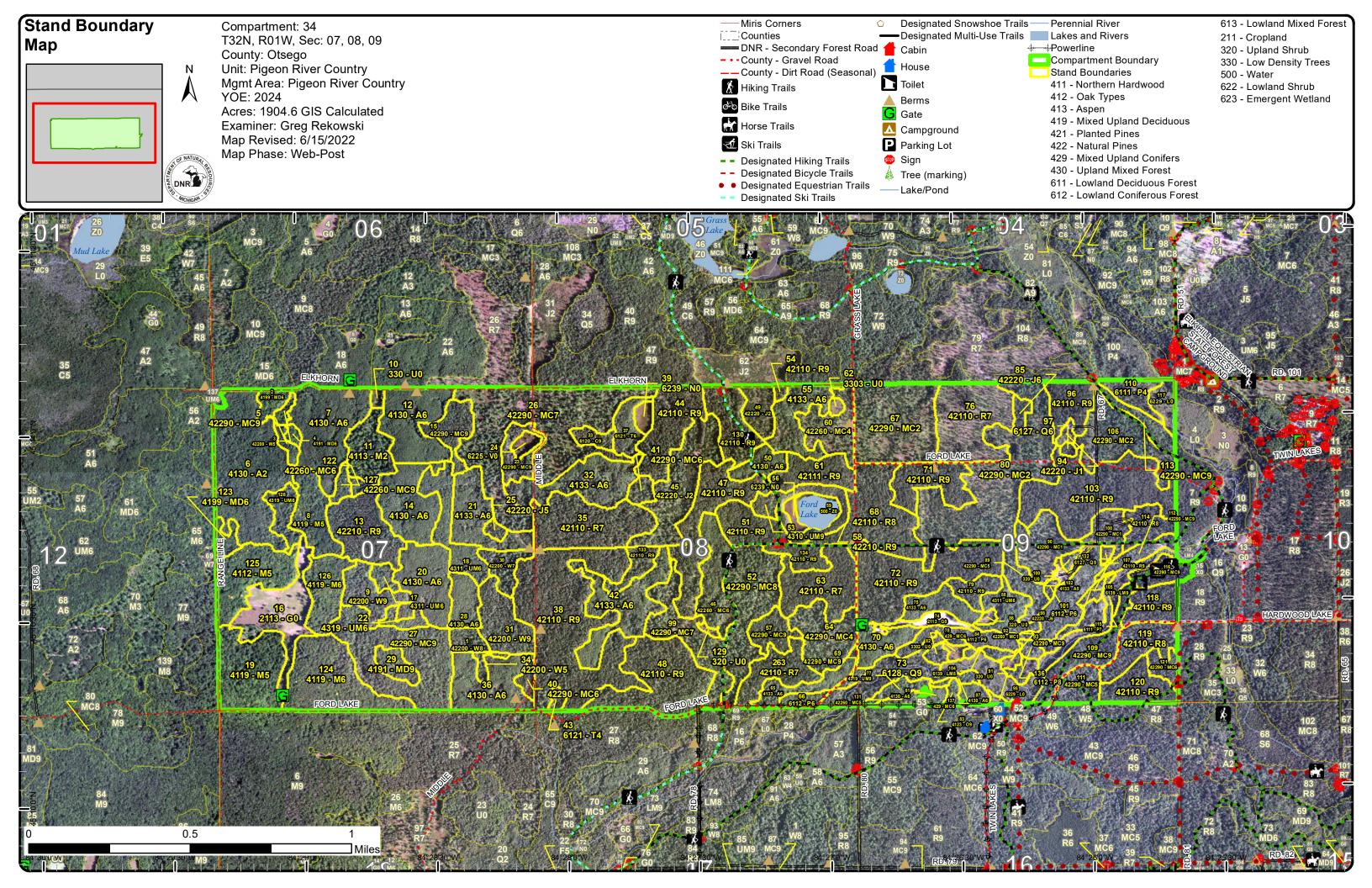
The following information is displayed, where pertinent, on the attached compartment maps:

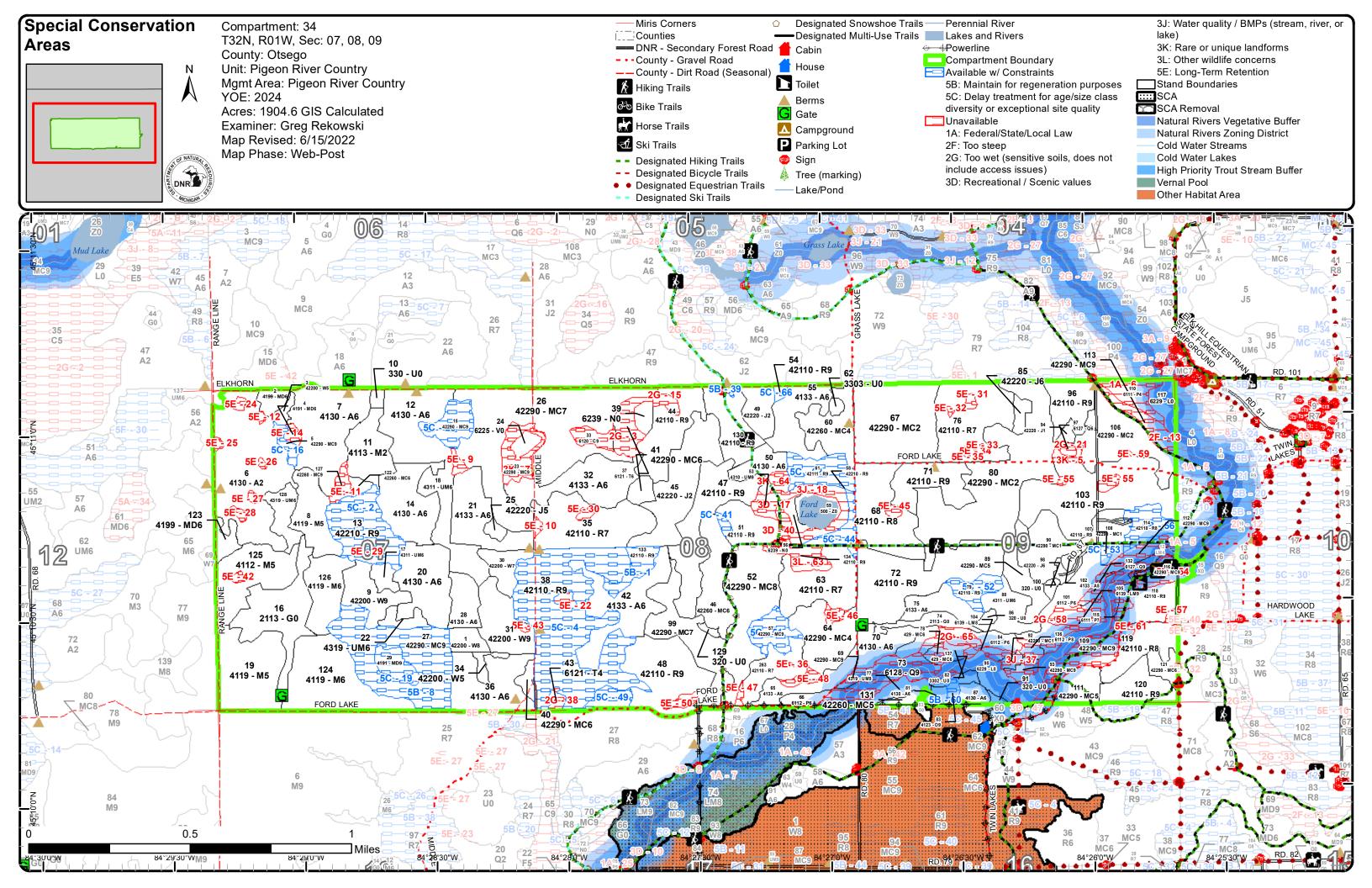
Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries

Details on the road access system

Site Condition Details







Compartment 34 Year of Entry 2024

Greg Rekowski: Examiner

Age Class

	/	<i>.</i>	/	/		/	/	_ /	/	/ /		_ /	_ /	/ ~ /	/	/	/	/ /	No. No.
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									$\overline{}$										
Aspen	0	56	0	0	223	53	0	0	0	0	0	0	0	0	0	0	0	0	332
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
Cropland	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Jack Pine	0	0	0	42	2	3	1	0	0	0	0	0	0	0	0	0	0	0	48
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	0	0	0	0	4	27	6	11	0	0	0	0	0	0	0	0	0	0	47
Lowland Conifers	0	0	0	0	1	0	0	0	0	21	0	0	0	0	0	0	0	0	22
Lowland Mixed Forest	0	0	0	0	0	0	3	6	0	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	9	0	0	0	8	0	0	0	0	0	0	0	16
Natural Mixed Pines	0	0	0	177	53	11	2	5	3	76	176	0	0	0	0	0	0	0	502
Northern Hardwood	0	0	0	0	0	16	0	0	0	16	107	0	0	0	0	0	0	0	139
Oak	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Red Pine	0	0	0	0	0	0	0	0	33	275	252	23	0	0	0	0	0	0	581
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	10
Upland Conifers	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	20	17	8	0	5	3	0	0	0	0	0	0	0	0	53
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	5	0	0	0	0	0	43	0	0	0	0	0	0	0	48
Total	88	56	0	219	310	127	31	22	41	393	586	23	10	0	4	0	0	0	1905



Report 2 – Treatment Summary

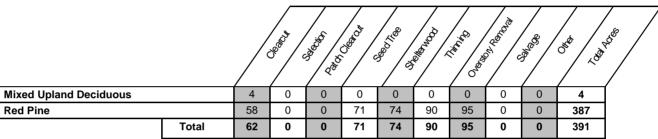
Pigeon River Country Mgt. Unit Year of Entry: 2024

Acres of Harvest

Compartment 34
Total Compartment Acres: 1,905

Commercial Harvest - 391 Harvests with Site Condition - 0 Next Step Harvest - 47 Habitat Cut - 47

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method

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Current		391	0	0	0	0	0	112	0	29	532	
Next Step		47	119	72	0	0	0	373	0	0	611	
	Total	439	119	72	0	0	0	485	0	29	1143	

Pigeon River Country Mgt. Unit

Report 3 -- Treatments

Compartment: 34 Year of Entry: 2024

t а RΔ Treatment **Cover Type** Treatment Acres Stand Size Stand **Treatment** Age Habitat n Method Objective Name CoverType Density Age Range Type Structure Cut d

Proposed Treatments:

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53034006 413 - Aspen 55.5 4130 - Aspen Immatu Natural Regen No Sapling Monitoring Even-Aged re Monitor Medium (Intermediate)

Prescription Continue to monitor regeneration success in this stand. Browse is currently having a significant impact on regeneration, especially at the Specs: south end of the stand. Prescribe an interplanting treatment if browse continues to eliminate regeneration in the stand.

Next Step **Treatments:**

Acceptable Aspen that meets regeneration stocking guidelines with any additional mix of species being acceptable.

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

53034044-Cut 42110 - Planted 141-4211 - Planted 20.6 Sawtimber 98 Harvest Crown Thinning Even-Aged Nο Red Pine Well 170 Red Pine

Specs:

Prescription Thin to 110 square feet. Focus on removing suppressed poletimber and smaller sawtimber. Retain all large diameter natural red and white pine (20"+DBH). Do not cut any red oak. Stay a 1/2 to 1 chain away from the wetland edge to the west. Exclude the wet drainage area and buffer it by at least a 1/2 chain (already excluded in site conditions layer). Exclude the small foundation which is on the southwest side of the interior drainage area. If found, protect all stick nests with the appropriate buffer.

Next Step Treatments:

Acceptable

Regen: Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

53034047-Cut 42110 - Planted Seed Tree with 29.4 Sawtimber 85 81-110 Harvest 42290 - Natural Even-Aged Nο Red Pine Well Retention Mixed Pine

<u>Prescription</u> Specs:

Seed-tree leaving 10-20 square feet of the largest and best quality red and white pine. Do not cut oak (oak BAs should not be included in the 10-20 BA residual pine target). Leave all white pine over 20" DBH. If present, leave relict red pine over 20" DBH. Exclude a few small retention pockets in areas of dense pine along the west edge.

Work with the TMS to monitor cone production each year for the red pine in the stand and only initiate the harvest when it is determined that there is a good seed crop. Limit harvesting and skidding to the late summer and early fall months (August-October sale contract) of that same year to maximize seed dispersal. Require chipping of tops with a grapple skidder. Require a tracked processor for felling operations and work with the operator to encourage as much ground scarification as possible with the processor.

Monitoring, Natural Regen (Intermediate) Next Step

Treatments:

Fully-stocked stand of red and white pine regeneration. Any additional mix of species is acceptable in the regeneration. If regeneration fails, <u>Acceptable</u> Regen: initiate next steps to trench and plant the site to red pine.

Other Add oak wilt specs. Add trail specs. Add 2" spec to get all regeneration knocked down.

Comment: Access should be via the closed road that intersects the stand along the west side.

Site Condition

Deciduous

Year of Entry: 2024

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a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
48	53034048-Cut	30.0	42110 - Planted Red Pine	Sawtimbe Well	er 96	81-110	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed	Two-Aged	No

Specs:

Prescription Seed-tree leaving 10-20 square feet of the largest and best quality red and white pine. Do not cut oak (oak BAs should not be included in the 10-20 BA residual pine target). Leave all white pine over 20" DBH. If present, leave relict red pine over 20" DBH. An area of retention has already been excluded around the ridgeline and old borrow pit. Add additional small retention pockets around areas of good advanced pine regeneration.

Work with the TMS to monitor cone production each year for the red pine in the stand and only initiate the harvest when it is determined that there is a good seed crop. Limit harvesting and skidding to the late summer and early fall months (August-October sale contract) of that same year to maximize seed dispersal and ground scarification. Require chipping of tops with a grapple skidder. Require a tracked processor for felling operations and work with the operator to encourage as much ground scarification as possible with the processor.

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Regen:

Acceptable Fully-stocked stand dominated by red and white pine with any additional mix of species being acceptable. If regeneration does not respond well then harvest the remaining seed trees and initiate next steps of trenching and then planting red pine.

Other Comment: The Shingle Mill Pathway is nearby to the east so add trail specs.

Add 2" spec to get all regeneration knocked down.

Site Condition

Proposed Start Date: 10/1 /2023

Sawtimber 53034051-Cut 11.2 42110 - Planted 111-Harvest Seed Tree 42290 - Natural Two-Aged No Red Pine Well Mixed Pine 140

Specs:

Prescription Seed-tree leaving 10-20 square feet of the largest and best quality red and white pine. Do not cut oak (oak BAs should not be included in the 10-20 BA residual pine target). Leave all white pine over 20" DBH. If present, leave relict red pine over 20" DBH. Exclude the area east of the Shingle Mill Pathway at the east end of the stand, and the area of pure oak along the west edge (both already excluded in the treatments laver).

Work with the TMS to monitor cone production each year for the red pine in the stand and only initiate the harvest when it is determined that there is a good seed crop. Limit harvesting and skidding to the late summer and early fall months (August-October sale contract) of that same year to maximize seed dispersal. Require chipping of tops with a grapple skidder. Require a tracked processor for felling operations and work with the operator to encourage as much ground scarification as possible with the processor.

Next Step Treatments:

Monitoring, Natural Regen (Intermediate)

Acceptable

Fully-stocked stand of red and white pine regeneration. Any additional mix of species is acceptable in the regeneration. If regeneration fails, initiate next steps to trench and plant the site to red pine.

Regen: **Other** Comment:

Add oak wilt specs. Add trail specs.

Cut together with adjacent stand 47. Access to this harvest should be from the closed road to the west which splits near the west side of stand 47.

Site Condition

Deciduous

Year of Entry: 2024

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a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
68	53034068-Cut	26.7	42110 - Planted	Sawtimbe	r 85	111-	Harvest	Shelterwood with	42260 - Natural	Even-Aged	No
			Red Pine	Medium		140		Retention	Pine, Mixed	•	

Specs:

Prescription Leave 30 square feet of red oak, red pine, and white pine. Focus on leaving the best quality, large diameter trees. In the south half of the stand, oak and pine tend to be mixed together in small, dense clumps. Utilize small retention pockets to retain some of these clumps or mark to leave several trees in these areas. Residual BAs will obviously be higher in these areas. One retention pocket has already been excluded (see site conditions layer). A few small areas of good red pine regeneration could be excluded at the far northwest corner of the

Work with the TMS to monitor cone production each year for the red pine in the stand and only initiate the harvest when it is determined that there is a good seed crop. Limit harvesting and skidding to the late summer and early fall months (August-October sale contract) of that same year to maximize seed dispersal. Require chipping of tops with a grapple skidder. Require a tracked processor for felling operations

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Regen:

Acceptable Fully-stocked stand of red and white pine regeneration that meets stocking guidelines. Oak regeneration is desired as well but likely not realistic due to the current browse levels.

Other Comment: Add oak wilt spec, no exceptions. Add trail spec. Add 2" spec to get all regeneration knocked down.

Manage together with stand 71.

Site Condition

Proposed Start Date: 10/1 /2023

53034071-Cut 17.6 42110 - Planted Sawtimber 141-Harvest Clearcut 42290 - Natural Two-Aged No Red Pine Mixed Pine Well 170

Specs:

Prescription Clearcut all species except do not cut oak. Leave all white pine over 20" DBH. If present, leave relict red pine over 20" DBH. No retention recommended unless a stick nest is found.

Work with the TMS to monitor cone production each year for the red pine in the stand and only initiate the harvest when it is determined that there is a good seed crop. Limit harvesting and skidding to the late summer and early fall months (August-October sale contract) of that same year to maximize seed dispersal. Require chipping of tops with a grapple skidder. Require a tracked processor for felling operations and work with the operator to encourage as much ground scarification as possible with the processor.

Next Step Treatments:

Monitoring, Natural Regen (Intermediate)

<u>Acceptable</u> Regen:

Fully-stocked stand of red and white pine regeneration. Any additional mix of species is acceptable in the regeneration. If regeneration fails, initiate next steps to trench and plant the site to red pine.

Other

Add oak wilt spec, no exceptions. Add 2" spec to get all regeneration knocked down.

Comment:

Compare regeneration success in clearcut treatments versus seed-tree/shelterwood treatments throughout this Compartment.

Site Condition

Proposed Start Date: 10/1 /2023

72 53034072-Cut 42110 - Planted Sawtimber 111-Harvest 4211 - Planted Uneven-No 43.0 85 Crown Thinning Red Pine Well 140 Red Pine Aged

Specs:

Prescription Thin areas of higher BA down to 100-110 square feet and focus on removing suppressed red pine poletimber and smaller sawtimber trees. Do not mark in areas of lower BA and those areas with pockets of heavy regeneration. However, where possible, expand existing areas of regeneration by marking trees along the edges of old canopy gaps. Do not mark trees over 20 inches DBH. Do not cut any oak. Add specs to protect the advanced pine regen as much as possible. Watch out for stick nests and add appropriate buffer if found.

Next Step **Treatments:**

Acceptable Regen:

Other Comment: Expect the treatment boundary to change, possibly significantly, in the east half of the stand. There are pockets of heavy regeneration that could be excluded from the treatment boundary, especially along the north/northeast line.

Site Condition

Year of Entry: 2024 а RΔ Treatment Acres Stand Size Stand **Treatment** Treatment Cover Type Age Habitat n Method Objective Name CoverType Density Age Range Structure Type Cut d 53034074-NF 5.7 2113 - Forage Crops Nonstocked 74 Unspec NonForestMgt Herbaceous/Crop 310 -Nο ified /Grass Planting Herbaceous Openland Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means. Specs: Next Step Treatments: <u>Acceptable</u> Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2023 42110 - Planted 4211 - Planted 53034096-Cut 12.8 Sawtimber 111-Harvest Crown Thinning Even-Aged No Red Pine Well 140 Red Pine Prescription Thin to 110-120 square feet. Focus on removing suppressed poletimber and smaller sawtimber. Retain all large diameter natural red pine (20"+DBH). Do not cut any red oak or white pine. Protect white pine regen as much as possible, particularly in the middle parts of the stand. Specs: Next Step Treatments: Acceptable Regen: Other Add trail spec. Comment: Future management of this stand should be on a longer rotation with a goal of promoting big trees. Site Condition Proposed Start Date: 10/1 /2023 42110 - Planted 4211 - Planted 118 53034118-Cut 10.4 Sawtimber 95 81-110 Harvest Clearcut with Even-Aged No Red Pine Retention Red Pine Prescription Clearcut, trench, and replant. Reserve all oak, and any relict red and white pine over 20 inches DBH. Protect red oak and birch saplings if possible. Desired area of retention pocket already excluded and in site conditions layer. Winter only cut to avoid conflicts with recreational Specs: Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) Treatments: Acceptable Fully-stocked stand of planted red pine. Expect some volunteer white pine and red maple to be part of the mix. Regen: Other Require chipping, low stumps, 2" spec. Comment: Site Condition Proposed Start Date: 10/1 /2023 119 53034119-Cut 14.0 42110 - Planted Sawtimber 51-80 Clearcut with 4211 - Planted Harvest Even-Aged No Red Pine Red Pine Medium Retention Prescription Clearcut, trench, and replant. Reserve all oak, and any white pine over 20 inches DBH. Protect the handful of red and white oak saplings and poletimber if possible. Desired retention area has already been excluded and is in the site conditions layer. If present, add additional small Specs: retention pockets around areas of good red and white pine advanced regeneration. SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) Next Step **Treatments:** Acceptable Fully-stocked stand of planted red pine. Expect a component of volunteer white and jack pine as well. Regen: Other Add horse trail specs. Add low stumps, chipping, and 2" specs. Comment: Site Condition

Red Pine

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Treatment RΔ Treatment Acres Stand Size Stand **Treatment** Cover Type Age Habitat Method Objective Name CoverType Density Age Range Type Structure Cut 42110 - Planted 53034120-Cut 4211 - Planted 120 13.7 Sawtimber 95 141-Harvest Crown Thinning Even-Aged Nο

Prescription Crown thin to 110-120 square feet. Focus on removing suppressed red pine poletimber. Retain all white pine, oak, and birch. Retain all natural origin red pine over 18" DBH. Remove red maple and jack pine as necessary for operations but retain some trees for diversity Specs:

170

purposes.

Next Step Treatments:

Acceptable Regen:

Add trail specs for the Towerman's Watch Pathway.

Red Pine

Well

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

130 53034130-Cut 16.0 42110 - Planted Sawtimber 97 111-Harvest Clearcut 42290 - Natural No Two-Aged Red Pine Well 140 Mixed Pine

Prescription Clearcut all trees except for oak. Exclude the area of good regen at the north end (already excluded and in the site condition layer).

Specs:

Work with the TMS to monitor cone production each year for the red pine in the stand and only initiate the harvest when it is determined that there is a good seed crop. Limit harvesting and skidding to the late summer and early fall months (August-October sale contract) of that same year to maximize seed dispersal. Require chipping of tops with a grapple skidder. Require a tracked processor for felling operations and work with the operator to encourage as much ground scarification as possible with the processor.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regeneration meeting stocking guidelines for either white pine, red pine, or jack pine, or a combination of all 3 (>600 TPA).

Regen:

Reroute the Shingle Mill Pathway to stand 49 to the east. Other

Comment:

Add 2" spec to get all regeneration knocked down.

Compare regeneration success between clearcut and seed tree treatments throughout the Compartment.

Site Condition

Proposed Start Date: 10/1 /2023

Approved Treatments:

53034002-4.2 4199 - Other Mixed Poletimber 55 81-110 Harvest Clearcut with 4139 - Aspen, Even-Aged No **Upland Deciduous** Mixed **CCR** Well Retention Deciduous

Prescription Clearcut w/Retention

- Out-of-year of entry harvest. Set-up with Stand 15, 53032 during 2023 year-of-entry.

- Boundary excluded retention identified in southwest. Captures an area heavy to white pine.

- Leave incidental red oak. Leave red/white pine 18" and greater.

- Include drumming log spec

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate or better stocking of aspen with components of soft/hard maple, birch, pine and fir.

Regen:

Specs:

Other Comment:

Site Condition

S

a n d	Treatm Nam		Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
8	53034 Mon		7.8 N	4119 - Mixed Iorthern Hardwoods	Poletimbe Medium	r 89	51-80	Monitoring	Natural Regen (Intermediate)	4119 - Mixed Northern Hardwoods	Uneven- Aged	No
Preso Spec		Natural r	egen sur	vey in canopy gaps	S.							
	Step tments:											
Acce Rege		Northern	hardwoo	od species not dom	inated by b	eech or	· ironwood	l.				
Othe Com	<u>r</u> ment:	Percent	to Treat =	= 100%								
Site (Conditio	<u>n</u>										
Prop	osed Sta	art Date:	10/1 /20	23								
19	53034 Mon		48.3 N	4119 - Mixed Iorthern Hardwoods	Poletimbe Medium	r 97	51-80	Monitoring	Natural Regen (Intermediate)	4119 - Mixed Northern Hardwoods	Uneven- Aged	No
Preso Spec		Natural r	egen sur	vey								
	Step tments:											
Acce Rege		Northern	hardwoo	ods not dominated l	by beech ar	nd ironv	vood.					
Othe Com	<u>r</u> ment:	Percent	to Treat =	= 100%								
Site (Conditio	<u>n</u>										
Prop	osed Sta	art Date:	10/1 /20	23								
35	530340	35-Cut	29.4	42110 - Planted Red Pine	Sawtimbe Poor	r 84	1-50	Harvest	Overstory Removal	4221 - Natural Red Pine	Even-Aged	No
Preso Spec			st 1 foot c						d oak. Roundwood abundant red pine s			
	Step tments:	Monitori	ng, Natur	al Regen (Intermed	liate)							
Acce Rege		Natural r	ed pine.									
Othe Com	ment:			and retention boun								
									he harvest. If seedli he areas that need		e been reduce	d below
Site (Conditio	<u>n</u>										
Prop	osed Sta	art Date:	5 /14/20	21								

Year of Entry: 2024

	a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
Ī	63	53034063-Cut	22.7	42110 - Planted Red Pine	Sawtimbe Poor	er 86	1-50	Harvest	Overstory Removal	4221 - Natural Red Pine	Even-Aged	No

Prescription Remove all overstory red pine from within the sale area. Leave all white pine and oak. Roundwood harvest only during the winter when there is at least 1 foot of snow on the ground. The reasoning for this is to protect the abundant red pine seedlings that are present throughout the Specs:

sale area. Add stringent damage specs to protect all regeneration, both new seedlings and advanced regeneration.

Next Step

Monitoring, Natural Regen (Intermediate) Treatments:

Acceptable Natural red pine.

Regen:

S

If needed, refresh red lines and retention boundaries. Other

Comment:

Do a regen survey one year after harvest to assess seedling survival following the harvest. If seedlings numbers have been reduced below acceptable stocking levels, then initiate a next step of handplanting red pine in the areas that need it.

Site Condition

Proposed Start Date: 8 /5 /2021

53034076-Cut 42110 - Planted 1-50 4221 - Natural 30.4 Sawtimber 78 Overstory Even-Aged Nο Harvest Red Pine Removal Red Pine Poor

Prescription Remove all overstory red pine from within the sale area. Leave all white pine and oak. Roundwood harvest only during the winter when there is at least 1 foot of snow on the ground. The reasoning for this is to protect the abundant red pine seedlings that are present throughout the Specs:

sale area. Add stringent damage specs to protect all regeneration, both new seedlings and advanced regeneration.

Monitoring, Natural Regen (Intermediate) Next Step

Treatments:

Acceptable Natural red pine.

Regen:

Other Refresh red lines and retention boundaries.

Comment:

Do a regen survey one year after harvest to assess seedling survival following the harvest. If seedlings numbers have been reduced below

acceptable stocking levels, then initiate a next step of handplanting red pine in the areas that need it.

Site Condition

Proposed Start Date: 5 /14/2021

42110 - Planted Shelterwood with 4211 - Planted 103 53034103-Cut 47.3 Sawtimber 94 81-110 Harvest Even-Aged No Red Pine Red Pine

Prescription Mark to leave 40 square feet of the best quality red pine. Leave any incidental oak and all white pine over 18" DBH. Recommended retention areas have already been excluded and are in the site conditions layer. If clumps of large diameter, relict red pine are found, utilize retention Specs:

SitePrep, Other - Specify; Harvest, Clearcut with Retention; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Next Step

Treatments: Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Fully-stocked stand of planted red pine.

Regen:

Other Require low stumps and chipping of tops. Add 2" spec to get all regeneration knocked down.

Comment:

Site Condition

Year of Entry: 2024

S t

t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
263	53034263-Cu	t 12.0	42110 - Planted Red Pine	Sawtimbe Poor	er 86	1-50	Harvest	Overstory Removal	4221 - Natural Red Pine	Even-Aged	No
Spec Next	cs: pine the least of area. Step Monitor	hat were in 1 foot of sn Add stringe	story red pine from tended to be left ind ow on the ground. The ent damage specs the ral Regen (Intermed	definitely. So The reasoning o protect al	ome of t ng for th	these occ nis is to pi	ur in clumps. Rour rotect the abunda	undwood harvest o ant red pine seedlii	only during the wings that are prese	nter when there	is at
		al red pine.									
Othe Com	iment: Do a ı	egen surve	h red lines and rete ey one year after ha king levels, then init	rvest to ass	sess see					e been reduced	d below
	Condition										
Prop	osed Start Dat	<u>e:</u> 5/14/2	021 								
16	NF_53034016 NonFor	23.6	2113 - Forage Crop	s Nonstock	ed	Unspec ified	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
Pres Spec	-	ain the non	-forested condition	of this stan	d either	through b	ourning, herbicide	, or mechanical m	eans.		

Next Step Treatments:

Acceptable

Regen:
Other
Comment:

Site Condition

Proposed Start Date: 11/2 /2021

Total Treatment 532.3 Acreage Proposed:

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Availa	ability for	Managemer	nt											
Total	Acres	Acres Avail	Acres	D	omina	nt Site	e Con	dition	s					
Acres	Available	With Condition	Not Available		5B	5C	1A	2F	2G	3D	3J	3K	3L	5E
332	328	0	3	Aspen					0					3
3	3	0	0	Bog										
4	0	0	4	Cedar					4					
33	33	0	0	Cropland										
48	48	0	0	Jack Pine										
5	5	0	0	Low-Density Trees										
47	24	0	23	Lowland Aspen/Balsam Poplar			8	0	7		8			
22	0	0	22	Lowland Conifers					1		21			
9	0	0	9	Lowland Mixed Forest							9			
27	27	0	0	Lowland Shrub			0	0						
6	6	0	0	Marsh										
17	8	6	2	Mixed Upland Deciduous		6								2
501	378	64	59	Natural Mixed Pines	43	21	0	7	0	8	31	8		5
139	138	0	1	Northern Hardwood										1
2	0	2	0	Oak	2									
553	359	151	43	Red Pine	17	134			2	1	11	4	7	18
10	0	0	10	Tamarack					10					
5	2	0	2	Upland Conifers							2			
53	49	0	3	Upland Mixed Forest						3				
6	6	0	0	Upland Shrub										
8	8	0	0	Water										
48	48	0	0	White Pine										0
1,876	1,471	223	182	Total Forested Acres	62	162	8	7	24	12	82	13	7	29
	78%	12%	10%	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.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

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2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	3J: Water quality / BMPs (stream, river, or lake)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
	Comments: Very wet stands wi	th standing water in many place	s.				
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	77	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:				d comments. This work on	. Aur.	
5	Manage this stand Unavailable	on a longer rotation with big tree 3K: Rare or unique	e mana 2	Unspecified	Unspecified	Unspecified	Unspecified
5	Unavailable Comments:			-		•	Unspecified
	Unavailable Comments:	3K: Rare or unique landforms		-		•	Unspecified
6	Unavailable Comments: Steep slopes, buffe Unavailable Comments:	3K: Rare or unique landforms er for adjacent pothole bog. 1A: Federal/State/Local Law his stand lies within the Pigeon F	8	Unspecified 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified Unspecified	Unspecified Unspecified	Unspecified
	Unavailable Comments: Steep slopes, buffe Unavailable Comments: A large portion of the	3K: Rare or unique landforms er for adjacent pothole bog. 1A: Federal/State/Local Law his stand lies within the Pigeon F	8	Unspecified 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified Unspecified	Unspecified Unspecified	Unspecified

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8	Available	5B: Maintain for regeneration purposes	43	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Allow the second a	ge class to mature before treating	ng. Mana	age using uneven-aged te	chniques.		
9	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
11	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: T.R for the propo	sed harvest in this stand. Captu	res an a	rea heavy to white pine.			
13	Unavailable	2F: Too steep	7	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

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15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
17	Unavailable	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: This stand sits on a	a knob overlooking Ford Lake. N	o manaç	gement recommended.			
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2F: Too steep	Unspecified	Unspecified	Unspecified
	Comments: Ring of natural pine	e that borders Ford Lake, some	areas ar	e on steep slopes.			
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Forested sinkhole	that is wet with steep slopes aro	und the s	sides.			

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22	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
25	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
26	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
27	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
28	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
29	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

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30	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
32	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
33	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
34	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
35	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
36	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
37	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	72	Unspecified	Unspecified	Unspecified	Unspecified

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38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
39	Available	5B: Maintain for regeneration purposes	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Regen pocket to ex	cclude from the harvest of stanc	l 130.				
40	Unavailable	3D: Recreational / Scenic values	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Trail influence and	very close to Ford Lake.					
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
42	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
43	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Goshawk nest buff	er					

Compartment: 34

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44	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
	comments: lanage on a longe	er rotation due to proximity to Fo	rd Lake.∃	Freat when BAs are high	enough to warrant a thinn	ing. Favor leaving large dia	meter trees.
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
16	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
18	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
50	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						

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Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
omments: lanage with adjac	ent pine stands when they are re	eady to ha	arvest.			
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
omments:						
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
omments:						
Unavailable	3D: Recreational / Scenic values	8	Unspecified	Unspecified	Unspecified	Unspecified
omments: igeon River State	Forest Campground					
Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
omments:						
Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
omments:						
	omments: lanage with adjace Available omments: Available omments: Unavailable omments: igeon River State Unavailable omments: Available	age/size class diversity or exceptional site quality omments: lanage with adjacent pine stands when they are re Available 5C: Delay treatment for age/size class diversity or exceptional site quality omments: Available 5C: Delay treatment for age/size class diversity or exceptional site quality omments: Unavailable 3D: Recreational / Scenic values omments: igeon River State Forest Campground Unavailable 5E: Long-Term Retention omments: Available 5B: Maintain for regeneration purposes	age/size class diversity or exceptional site quality comments: lanage with adjacent pine stands when they are ready to hat a surprise and a stands when they are ready to hat a surprise and a stands when they are ready to hat a surprise and a stands when they are ready to hat a surprise and a stands when they are ready to hat a surprise and a surpr	age/size class diversity or exceptional site quality omments: lanage with adjacent pine stands when they are ready to harvest. Available 5C: Delay treatment for age/size class diversity or exceptional site quality omments: Available 5C: Delay treatment for age/size class diversity or exceptional site quality omments: Unavailable 3D: Recreational / Scenic values omments: Unavailable 3D: Recreational / Scenic values omments: igeon River State Forest Campground Unavailable 5E: Long-Term Retention 2 Unspecified omments: Available 5B: Maintain for 9 Unspecified	age/size class diversity or exceptional site quality omments: anage with adjacent pine stands when they are ready to harvest. Available 5C: Delay treatment for age/size class diversity or exceptional site quality omments: Available 5C: Delay treatment for age/size class diversity or exceptional site quality omments: Unavailable 3D: Recreational / Scenic 8 Unspecified Unspecified values omments: Unavailable 3D: Recreational / Scenic 8 Unspecified Unspecified Unspecified omments: Unavailable 5E: Long-Term Retention 2 Unspecified Unspecified Omments: Unavailable 5E: Long-Term Retention 9 Unspecified Unspecified Unspecified Omments:	age/size class diversity or exceptional site quality comments: Available

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57	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
58	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
59	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
60	Available	5B: Maintain for regeneration purposes	2	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
61	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
62	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
63	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
	omments: wo stick nests in t	this stand, close to the lake as w	ell.				

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64	Unavailable	3K: Rare or unique landforms	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Small, wet sinkhole	e with steep slopes around the s	ides.				
65	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
66	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

nit Compartment: 034
Year of Entry: 2024



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
Comments	Spring Wetlands Riparian Area	Spring Seep	SCA	425
Examiner Approved 9/12/201	3			

Compartment: 34 Year of Entry 2024



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.

Conservation Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen condi- stocked trout populations and those of other coldwater fish speci- year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high d communities are ecologically and socially significant in their effect as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, iversity of plants and wildlife. Riparian cts on water quality and quantity, as well
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10 and Vegetative Buffers for each Natural River see the table locat folder.	Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts



Stand	Level 4 C	over Type	Si	ze De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
1	42200 - Natu	ural White I	Pine Saw	timbei	Medium	n 5.1	92	51-80	N/A		This stand had a species removal in 1995 in the sale Ford Lake Pine
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Block (#53-015-94), bought by Georgia Pacific. Everything was cut except for red pine, white pine, and oak. As a result of that harvest, the
	White Pine	63	Log/Pole/XLog	13	92	Bigto	ooth Aspen	Low	>20 feet	Sapling	residual is scattered irregularly throughout the stand, often in clumps.
	Red Pine	30	Log/XLog	14		R	ed Pine	Trace	Variable	Sapling	The residual white pine is a variety of sizes. Regeneration came back
	Red Oak	4	Log/XLog	15		Re	ed Maple	Medium	Variable	Sapling	well throughout the stand and is dense in areas. The aspen component is mostly at the northwest side of the stand. Heavy browse has kept a lot of
В	Bigtooth Aspen	3	Pole/Sapling	5		I	Beech	Low	Variable	Sapling	the red maple saplings below 6 feet tall. Average ba/acre from 4 plots =
						WI	hite Pine	High	Variable	Sapling	78 square feet. Trace of sawlog-sized sugar maple and red maple.
						WI	hite Pine	Low	>20 feet	Pole	
						Bigto	ooth Aspen	Low	>20 feet	Pole	
2	4199 - Other Mixe	ed Upland D	Deciduous Po	letimb	er Well	4.5	55	81-110	N/A		-Two-aged stand with quite a bit of diversity. Other species that were
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	present but rare included; red pine, balsam fir, paper birch, and red oakPockets of mostly pine along the NE and SW corners of the stand and
	White Pine	6	Log/Pole	12	77	Iro	onwood	Low	Variable	Sapling	along the stand's east edge.
В	Bigtooth Aspen	38	Pole/Log	9	55	WI	hite Pine	Low	Variable	Sapling	-Prescribed for a harvest with stand 15 in Comp 32 in the 2023 YOE.
	Sugar Maple	17	Pole/Sapling	7		Re	ed Maple	Low	10 - 20 feet	Sapling	
,			Dala/Cardina	7						•	-
,	Red Maple	37	Pole/Sapling	'							
	Red Maple Beech	2	Pole/Sapling Pole	8							
3	Beech 42200 - Natu	2 ural White I	Pole Pole	8 timbe	· Medium		36	51-80	N/A		This stand was clearcut in 1986 at the same time as adjacent stand 7 to
3	Beech 42200 - Natu Canopy Species	2 ural White I % Cover	Pole Pine Pole Size Class	8 timber	Age	Sub-Ca	nopy Species	51-80 Density	Avg. Height	Size	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested,
3	Beech 42200 - Natu Canopy Species White Pine	ural White I Cover 67	Pole Pine Pole Size Class Pole/Sap/Log	8 timber 7		Sub-Ca	nopy Species hite Pine		Avg. Height 5 - 10 feet	Sapling	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average
3	Beech 42200 - Natu Canopy Species White Pine Red Pine	2 wral White I % Cover 67 3	Pole Pine Pole Size Class Pole/Sap/Log Pole	8 timber 7 8	Age	Sub-Ca	nopy Species	Density	Avg. Height	_	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average
3	Beech 42200 - Natu Canopy Species White Pine Red Pine Balsam Fir	2 wral White I % Cover 67 3 1	Pole Pine Pole Size Class Pole/Sap/Log Pole Pole	8 timber 7 8 6	Age	Sub-Ca	nopy Species hite Pine	Density Low	Avg. Height 5 - 10 feet	Sapling	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average
3	Beech 42200 - Natu Canopy Species White Pine Red Pine Balsam Fir Red Maple	2 ural White F % Cover 67 3 1 24	Pole Pine Pole Size Class Pole/Sap/Log Pole Pole Pole Pole/Sapling	8 timbel 7 8 6 5	Age	Sub-Ca	nopy Species hite Pine	Density Low	Avg. Height 5 - 10 feet	Sapling	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average
3	Beech 42200 - Natu Canopy Species White Pine Red Pine Balsam Fir	2 wral White I % Cover 67 3 1	Pole Pine Pole Size Class Pole/Sap/Log Pole Pole	8 timber 7 8 6	Age	Sub-Ca	nopy Species hite Pine	Density Low	Avg. Height 5 - 10 feet	Sapling	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average
3	Beech 42200 - Natu Canopy Species White Pine Red Pine Balsam Fir Red Maple Bigtooth Aspen 4191 - Mixed Upla	2 wral White F % Cover 67 3 1 24 5	Pole Pine Pole Size Class Pole/Sap/Log Pole Pole Pole Pole Pole/Sapling Pole	8 timbel 7 8 6 5 7	Age	Sub-Ca	nopy Species hite Pine ck Cherry	Density Low	Avg. Height 5 - 10 feet	Sapling	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average ba/acre from 3 plots = 77 square feet. Stand of small diameter hardwoods, and good quality oak and pine which both display the best growth out of all the species present. Some but not
3 0 8	Beech 42200 - Natu Canopy Species White Pine Red Pine Balsam Fir Red Maple Bigtooth Aspen 4191 - Mixed Upla	2 ural White F % Cover 67 3 1 24 5 and Deciduonifer	Pole Pine Pole Size Class Pole/Sap/Log Pole Pole Pole Pole Pole/Sapling Pole	8 timbel 7 8 6 5 7	36	Sub-Ca Wi Blace	nopy Species hite Pine ck Cherry	Density Low Low	Avg. Height 5 - 10 feet Variable	Sapling	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average ba/acre from 3 plots = 77 square feet. Stand of small diameter hardwoods, and good quality oak and pine which both display the best growth out of all the species present. Some but not all of the beech has BBD. Average ba/acre from 3 plots = 123 square
3 0 8	Beech 42200 - Natu Canopy Species White Pine Red Pine Balsam Fir Red Maple Bigtooth Aspen 4191 - Mixed Upla	2 ural White F % Cover 67 3 1 24 5 and Deciduonifer	Pole Pine Pole Size Class Pole/Sap/Log Pole Pole Pole Pole Pole/Sapling Pole Pole Pole Pole Pole	8 timbel 7 8 6 5 7	Age 36 36 er Well	Sub-Ca Wi Blace 1.6 Sub-Ca	nopy Species hite Pine ck Cherry	Density Low Low	Avg. Height 5 - 10 feet Variable N/A	Sapling Tall Shrut	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average ba/acre from 3 plots = 77 square feet. Stand of small diameter hardwoods, and good quality oak and pine which both display the best growth out of all the species present. Some but not all of the beech has BBD. Average ba/acre from 3 plots = 123 square
3 0	Beech 42200 - Natu Canopy Species White Pine Red Pine Balsam Fir Red Maple Bigtooth Aspen 4191 - Mixed Upla Co	ural White I Cover 67 3 1 24 5 and Deciduonifer Cover	Pole Pine Pole Size Class Pole/Sap/Log Pole Pole Pole/Sapling Pole Pole Size Class	buttimbel 7 8 6 5 7 lettimbel DBH	Age 36 36 er Well	Sub-Ca NH Black 1.6 Sub-Ca	nopy Species hite Pine ck Cherry 95	Density Low Low 111-140 Density	Avg. Height 5 - 10 feet Variable N/A Avg. Height	Sapling Tall Shrub	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average ba/acre from 3 plots = 77 square feet. Stand of small diameter hardwoods, and good quality oak and pine which both display the best growth out of all the species present. Some but not all of the beech has BBD. Average ba/acre from 3 plots = 123 square feet. Leave unmanaged due to its small size. It serves well as a retention
3 6 4	Beech 42200 - Natu Canopy Species White Pine Red Pine Balsam Fir Red Maple Bigtooth Aspen 4191 - Mixed Upla Co Canopy Species Beech	ural White I Cover 67 3 1 24 5 and Deciduonifer Cover	Pole Pine Pole Size Class Pole/Sap/Log Pole Pole Pole/Sapling Pole Pole Size Class Pole/Log	8 timbel 7 8 6 5 7 letimb	Age 36 36 er Well	Sub-Ca Will 1.6 Sub-Ca Will	nopy Species hite Pine ck Cherry 95 nopy Species hite Pine	Density Low Low 111-140 Density Medium	Avg. Height 5 - 10 feet Variable N/A Avg. Height Variable	Sapling Tall Shrub Size Sapling	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average ba/acre from 3 plots = 77 square feet. Stand of small diameter hardwoods, and good quality oak and pine which both display the best growth out of all the species present. Some but not all of the beech has BBD. Average ba/acre from 3 plots = 123 square feet. Leave unmanaged due to its small size. It serves well as a retention
3 6 4	Beech 42200 - Natu Canopy Species White Pine Red Pine Balsam Fir Red Maple Bigtooth Aspen 4191 - Mixed Upla Co Canopy Species Beech Paper Birch	2 ural White I % Cover 67 3 1 24 5 and Deciduonifer % Cover 9 2	Pole Pine Pole Size Class Pole/Sap/Log Pole Pole Pole/Sapling Pole Pole Size Class Pole/Log Pole/Log	8 ttimber 7 8 6 5 7 lettimb	Age 36 36 er Well	Sub-Ca Wi Blace 1.6 Sub-Ca Wi I Re	nopy Species hite Pine ck Cherry 95 nopy Species hite Pine Beech	Density Low Low 111-140 Density Medium Low	Avg. Height 5 - 10 feet Variable N/A Avg. Height Variable Variable Variable	Sapling Tall Shrub Size Sapling Sapling	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average ba/acre from 3 plots = 77 square feet. Stand of small diameter hardwoods, and good quality oak and pine which both display the best growth out of all the species present. Some but not all of the beech has BBD. Average ba/acre from 3 plots = 123 square feet. Leave unmanaged due to its small size. It serves well as a retention stand.
3 C	Beech 42200 - Natu Canopy Species White Pine Red Pine Balsam Fir Red Maple Bigtooth Aspen 4191 - Mixed Upla Co Canopy Species Beech Paper Birch Bigtooth Aspen	2 ural White I % Cover 67 3 1 24 5 and Deciduonifer % Cover 9 2 7	Pole Pine Pole Size Class Pole/Sap/Log Pole Pole/Sapling Pole Pole/Sapling Pole Pole/Log Pole/Log Log/Pole	8 8 10 10 10 10 10 10	Age 36 36 er Well	Sub-Ca Wi Blace 1.6 Sub-Ca Wi I Re	95 Inopy Species hite Pine gk Cherry 95 Inopy Species hite Pine Beech gd Maple	Density Low Low 111-140 Density Medium Low Low	Avg. Height 5 - 10 feet Variable N/A Avg. Height Variable Variable Variable >20 feet	Sapling Tall Shrut Size Sapling Sapling Sapling	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average ba/acre from 3 plots = 77 square feet. Stand of small diameter hardwoods, and good quality oak and pine which both display the best growth out of all the species present. Some but not all of the beech has BBD. Average ba/acre from 3 plots = 123 square feet. Leave unmanaged due to its small size. It serves well as a retention stand.
3 C	Beech 42200 - Natu Canopy Species White Pine Red Pine Balsam Fir Red Maple Bigtooth Aspen 4191 - Mixed Upla Cc Canopy Species Beech Paper Birch Bigtooth Aspen Red Pine	2 ural White I % Cover 67 3 1 24 5 and Deciduonifer % Cover 9 2 7 6	Pole Pine Pole Size Class Pole/Sap/Log Pole Pole/Sapling Pole Pole Pole/Sapling Pole Log Pole/Log Log/Pole Log	8 8 10 13 13 15 15 15 15 15 15	Age 36 36 er Well	Sub-Ca Wi Blace 1.6 Sub-Ca Wi I Re	95 Inopy Species hite Pine gk Cherry 95 Inopy Species hite Pine Beech gd Maple	Density Low Low 111-140 Density Medium Low Low	Avg. Height 5 - 10 feet Variable N/A Avg. Height Variable Variable Variable >20 feet	Sapling Tall Shrut Size Sapling Sapling Sapling	the east, but regeneration here came back mostly to white pine and red maple. The middle of the stand is very open and basically non-forested, the remainder of the stand has a few nice pockets of white pine. Average ba/acre from 3 plots = 77 square feet. Stand of small diameter hardwoods, and good quality oak and pine which both display the best growth out of all the species present. Some but not all of the beech has BBD. Average ba/acre from 3 plots = 123 square feet. Leave unmanaged due to its small size. It serves well as a retention stand.

Report 7 - Stands

Compartment: 34 Year of Entry: 2024



Stanc	d Level 4 C	over Type	S	Size Density		Acres	Stand Age E	BA Range	Managed S	iite	General Comments
5	42290 - Natural Mixed Pine		Pine Sa	Sawtimber Well		2.8	92	141-170	N/A		Red pine is mostly in the north half of the stand, while white pine is
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Ca	nopy Species	Density	Avg. Height	Size	dominant in the south half. High quality white pine with some large diameter trees present. The aspen is small at the north end but becomes
	Red Pine	30	Log/XLog	14		Sug	jar Maple	Trace	>20 feet	Sapling	larger (8-11" DBH) the further south you go. Average ba/acre from 4 plot
	Red Maple	4	Pole	6		R	Red Oak		>20 feet Sapling	= 150 square feet. Do not manage due to the small acreage. This stand	
	Red Oak	2	Log/XLog	16		Bigto	oth Aspen	Trace	>20 feet	Sapling	serves well as a retention stand.
	White Pine	45	Log/XLog/Pole	14	92	Re	d Maple	High	>20 feet	Sapling	
	Bigtooth Aspen	19	Pole/Log	8				'		,	-
6	4130	- Aspen	Sa	apling I	Medium	55.5	4	Immature	N/A		This stand was cut in the summer of 2017 as part of Rangeline Aspen, #53-013-14-01, bought by Precision, cut by a roundwood crew. All oak
	Canopy Species	% Cover	Size Class	DBH	l Age						and pine were left. All 4 size classes of oak are present in this stand,
	Beech	3	Sapling	1							including a large percentage of oak saplings and poletimber in the
	Red Pine	1	Log/Pole	12							southern 2/3rds of the stand. Some damage did occur but the producers
	Red Maple	3	Sapling	1							did a pretty good job of protecting the majority of it during harvest operations. Retention pockets in the south half were also placed around
	Red Oak	15	Pole/Log/Sap	8							areas heavy to younger oak.
	Quaking Aspen	30	Sapling	1							
	Bigtooth Aspen	44	Sapling	1	4						Aspen sprouted back well in most areas but is being hammered by browse, particularly the east edge and the southeast 1/4 of the stand,
	White Pine	4	Log/Pole/XLog	12							which has essentially been converted to a non-forested condition except for some patches of beech. In general, quaking aspen is more numerous
											in the north half while the south half is mostly bigtooth aspen. Red maple stump sprouts have been hit hard by browse and only a few look like the will make it past the browse level. Beech has sprouted back in areas but it too is being browsed. It's unclear how much of the aspen will survive. Check the regen again in 3 years and possibly prescribe interplanting (white pine, spruce?) in areas that have been converted to a non-foreste condition. Hopefully some pine will seed in over the years.
7	4130	- Aspen	Po	oletimb	er Well	33.4	35	81-110	N/A		This stand was clearcut in 1987 in the sale Section 7-2 Sale (#53-015-
	Canony Species	% Cover	Size Class	DBL	Δne	Sub-Ca	nony Species	Density	Ava Height	Size	84), bought by Champion. Aspen regenerated well and is dominant

•	- 1				
Canopy Species	%	Cover	Size Class	DBH	Age
White Pine		10	Pole/Sap/Log	7	
Red Pine		2	Pole	7	
Red Oak		2	Pole/Log	8	
Red Maple		8	Pole/Sapling	5	
Bigtooth Aspen		78	Pole/Sapling	6	35

2

Log/Pole

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Sapling
Sugar Maple	Trace	>20 feet	Sapling
Black Cherry	Trace	5 - 10 feet	Tall Shrub
White Pine	Low	Variable	Sapling

This stand was clearcut in 1987 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. Aspen regenerated well and is dominant throughout the entire stand. There are a few scattered pockets that are heavier to pine. A small amount of oak regenerated, most are in the 8-12" diameter range. Aspen diameters vary throughout, some areas are just approaching merchantability while others average in the 6-8" diameter range. Average ba/acre from 9 plots = 100 square feet. In some areas elk are stripping the bark off of red maple saplings, causing a lot of damage. Mostly flat terrain except for some slopes at the northwest side. This stand will likely be ready for a harvest in 10 years. Manage with stand 18 to the north in Compartment 32 as they are functionally the same stand.

8	4119 - Mixed Nort	thern Har	dwoods I	Poletimbe	r Medium	16.2	89	51-80	N/A	
	Canopy Species	% Cover	Size Class	s DBI	H Age	Sub-Can	opy Species	Density	Avg. Height	
	Red Oak	23	Log/XLog	g 16		В	eech	Medium	Variable	
	Bigtooth Aspen	5	Log/XLog	g 14		Whi	ite Pine	Low	Variable	
	White Pine	7	Log	14						
	Sugar Maple	26	Pole/Log	9						
	Red Maple	37	Pole/Loo	8 r	89					

10

2021 Update - Stand thinned in the winter of 2020-21 in the sale Tanager Hardwoods (#53-014-14-01), bought by Jeff Brasseur, cut by Roland Rieger. Mostly good job on the sale, a few high stumps were left, residual damage not too bad. All beech was cut out of the stand except for a few stems. Some large canopy gaps created along the west side of the stand. Oak is good quality. Other species that were present but rare included hemlock, basswood, paper birch, and yellow birch. Massive white pine stump found in this stand. The remnants of it measured 47 inches in diameter.

Beech

Size

Sapling

Sapling

Compartment: 34 Year of Entry: 2024



Stand Level 4 Co		Level 4 Cover Type		Level 4 Cover Type		d Level 4 Cover Type		er Type Size Density		Size Density Acres Stand Age BA Range Managed Site				BA Range	Managed S	ite	General Comments
9	42200 - Natu	ural White	Pine Sa	awtimb	er Well	13.2	92	111-140	N/A		High quality white pine stand. A variety of diameters are present including						
	Canopy Species	% Cove	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	some legacy trees. Similar to stand 27 to the south however this stand did not have a species removal and thus has retained some species						
	Paper Birch	1	Pole/Log	9		Е	Beech	High	5 - 10 feet	Sapling	diversity in the overstory. Some very large aspen are scattered						
	Beech	1	Pole	6		Wh	ite Pine	Low	Variable	Sapling	throughout, serving well as wildlife trees. Trace of sugar maple. Average						
	Quaking Aspen	7	Log/XLog/Pole	14		Iro	nwood	Low	Variable	Sapling	ba/acre from 7 plots = 140 square feet. One of the only stands in the Compartment with no past harvest history. Leave alone for this entry and						
	Red Pine	13	Log/Pole/XLog	13		Red	d Maple	Low	>20 feet	Sapling	consider treating with stand 27 to the south next entry, using uneven-						
	Red Oak	2	Log/XLog	16		Strip	ed Maple	Trace	Variable	Sapling	aged management techniques.						
	Bigtooth Aspen	5	Log/XLog	13													
	White Pine	60	Log/XLog/Pole	14	92												
	Red Maple	11	Pole/Log	8													
10	330 - Low-[Density Tre	ees	Nonsto	cked	1.6	ι	Inspecified	No		This was formerly a mixed aspen/pine stand that was clearcut in 2007						
						Sub-Car	nopy Species	Density	Avg. Height	Size	when stand 11 was also cut, and it looks like it was also used as a landing for that harvest. It did not regenerate well other than some						
							ed Pine	Medium	Variable	Sapling	scattered pine saplings. One massive red oak in the middle of the stand.						
						Wh	ite Pine	Medium	Variable	Sapling							
						Re	ed Pine	Trace	>20 feet	Log							
						Jac	ck Pine	Low	Variable	Sapling							
						Red	d Maple	Low	Variable	Sapling							
						Re	ed Oak	Trace	>20 feet	Log							
						Bigto	oth Aspen	Low	>20 feet	Pole							
11	4113 - R.M	laple, Con	fer Sa	apling N	/ledium	15.5	45	51-80	N/A		This was formerly a fully-stocked natural red pine stand that had a						
	Canopy Species	% Cove	Size Class	DBH	Age						species removal harvest in 1977 where everything was cut except red pine, white pine, and oak. Then in 2007 the majority of the red and white						
	Red Pine	14	Log/XLog	16	93						pine overstory was removed in the sale Yellow Feathered Pine (#53-018-						
	Beech	4	Pole/Sapling	5							04), bought by Bisballe. A difficult stand to type out as there are several						
	Quaking Aspen	8	Pole/Log	8							different age classes. The red maple regeneration that originated after the species removal in 1977 is the most dominant (ranges from 3-6"						
	Red Maple	56	Sapling/Pole	4	45						DBH) and occurs in clumps throughout the stand. Old skid trails from the						
	Bigtooth Aspen	3	Pole	8							recent overstory removal are trying to fill in with red maple but they are						
	Red Oak	2	Pole/Sapling	6							being heavily browsed, most are below 6 feet tall. Younger white pine saplings and poletimber are present but can't be represented in MiFI due						
	White Pine	12	Log/Pole/XLog	14							to the multiple size class restrictions, I'd estimate white pine saplings						
	Red Pine	1	Sapling	1							around 5%. A small clump of aspen poletimber is present in the middle of						
		1	Sapling	1							around 5%. A small clump of aspen poletimber is present in the midd the stand and then there is another small clump of sawtimber-sized to near the north end. The supercanopy of red and white pine averages around 25 square feet per acre. Elk have damaged the boles of nearling red maple over 3-4 inches in diameter by stripping the bark off of the couple of feet. The trees appear to be surviving but will likely have						

significant amounts of heart rot in the future.

111-140

N/A

42210 - Natural Red Pine

12

Compartment: 34 Year of Entry: 2024



Stand	Level 4 C	over Type	S	ize De	nsity	Acres	Stand Age	e BAR	ange	Managed Site		
12	4130	- Aspen	Po	oletimb	er Wel	26.2	36	81-	110	N/A		
	Canopy Species	% Cove	Size Class	DBH	l Age	Sub-Ca	nopy Spec	ies D	ensity	Avg. Height	Size	
	Bigtooth Aspen	87	Pole/Sapling	6	36	W	hite Pine		Low	Variable	Sapling	
	White Pine	4	Pole	6		Bla	ck Cherry		Low	Variable	Tall Shrub	
	Red Pine	1	Pole	7		R	ed Pine		Trace	Variable	Sapling	
	Red Maple	8	Pole/Sapling	5		Re	ed Maple	N	1edium	Variable	Sapling	

This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. The stand regenerated well to almost pure aspen in the overstory. Hardly any tree species diversity in the stand. Diameters on the aspen tend to vary, being larger in the north half of the stand (6-9"), while areas of the south half are just reaching merchantability (4-6"). Trace of jack pine and red oak in the overstory. Average ba/acre from 8 plots = 84 square feet. This stand may be ready for a harvest next entry but do not cut on its own. Manage as part of a larger clump with stands 21, 28, 14, and 20 which may help reduce browse damage.

General Comments

13	12210 Hatara Hoa i ilio			Carrambol Woll 2111			2 00		14/71		
	Canopy Species	% Cove	r Size Class	DB	H Ag	je	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Pine	73	Log/XLog	15	85	5	Beech	Medium	Variable	Sapling	
	White Pine	24	Log/Pole/XLog	g 14			Striped Maple	Trace	Variable	Sapling	
	Red Maple	3	Pole	6			White Pine	Low	Variable	Sapling	
							Red Maple	High	>20 feet	Sapling	

24 1

85

Sawtimber Well

Very high quality pine stand. Legacy size white pine are scattered throughout and in a clump along the southeast side. A few very old red pine are also close to legacy tree size. No planting records exist for this stand so I'll assume it's natural. This stand initially had a species removal harvest in 1977, cutting everything except red pine, white pine, and oak. In the fall of 2014 it was thinned as part of the Mighty Fine Pine sale (#53-003-14-01), bought by Biewer and cut by a Timerbline roundwood crew (Bill Axford). Minimal damage to the residual. A retention pocket was used in the south half of the stand to protect a stick nest. Trace of bigtooth aspen, paper birch, and red oak in the overstory. Average ba/acre from 20 plots = 120 square feet. Natural red pine stands are very rare on the landscape so maintain this stand as is, and manage for big trees and old-growth like conditions. The well-developed red maple understory will have to be dealt with at some point if we want to keep pine on this site.

14	4130	- Aspen	ſ	Poletimb	er Well	23.1	45	111-140	N/A	
	Canopy Species	% Cover	Size Class	DBF	l Age	Sub-Can	nopy Species	Density	Avg. Height	Size
	Red Maple	12	Pole/Sapling	9 6		Red	d Maple	Medium	>20 feet	Sapling
	White Pine	4	Pole/Log	8		Suga	ar Maple	Trace	>20 feet	Sapling
	Bigtooth Aspen	67	Pole	8	45	Whi	ite Pine	Low	Variable	Sapling
	Quaking Aspen	15	Pole	6		Re	ed Oak	Trace	>20 feet	Sapling
	Red Oak	1	Pole	8		В	Beech	Trace	Variable	Sapling
	Sugar Maple	1	Pole/Sapling	5		Witc	ch Hazel	Trace	5 - 10 feet	Tall Shrub

High quality aspen stand that was last clearcut in 1977 by Champion. Site quality appears to be much better in this stand as compared to the adjacent aspen stands. Diameter growth on the bigtooth aspen is good with most stems in the 7-10" diameter range. The quaking aspen is smaller and lower quality. White pine is scattered throughout infrequently, although there is a patch of nearly pure white pine in the middle of the stand that may have been an old landing. The hardwood influence, including some nice stems of younger sugar maple and red oak, is most prevalent in the middle and western parts of the stand. A trace amount of sugar maple and red maple sawlog-sized trees is present (1 or 2 of each). Red pine and black cherry poletimber is present but rare. Average ba/acre from 8 plots = 123 square feet. Rolling terrain with some steep. but operable, slopes. This stand could be cut now but on it's own it would not likely result in successful regeneration due to the browse pressure in the area. Wait ten years and manage as part of a larger patch with stands 12, 20, 21, and 28, which will hopefully help reduce the browse damage.

Report 7 - Stands

Compartment: 34 Year of Entry: 2024



Stand	Level 4 C	over Type		Size De	ensity	Acres	Stand Age	BA Range	Managed Site		Managed Site		General Comments
15	42290 - Natu	ural Mixed I	Pine S	Sawtimb	er Well	11.0	95	111-140	N/A		Nice pine stand that still has some deciduous species diversity mixed in.		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	The red pine was planted but the stand does not resemble a plantation in most areas. There is also a small amount of relict natural red pine in the		
	Bigtooth Aspen	10	Log/Pole	11		Wh	nite Pine	Medium	Variable	Sapling			
	Paper Birch	1	Pole	8							timber sale (#53-003-14-01), bought by Biewer, cut by a Timberline		
	White Pine	22	Log/Pole	12							roundwood crew (Bill Axford). Very nice job on the sale with minimal damage to the residual. The south finger of this stand was not included in		
	Jack Pine	1	Pole	9							the thinning and was left as retention. Average residual ba/acre = 116		
	Red Pine	58	Log/Pole/XLog	g 13	95						square feet. Retain this stand on a longer rotation. Look at thinning again		
	Red Maple	6	Pole	7							next entry.		
	Red Oak	2	Log/XLog	14									

16 2113 - Forage Crops

Nonstocked

26.9 Unspecified

Managed Opening

N/A

-The majority of this stand is a managed wildlife opening, with the exception of the long narrow portion to the south.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace		Sapling
Black Cherry	Low		Pole
Beech	Trace		Pole
White Pine	Trace		Seeding
Sugar Maple	Trace		Pole
Mixed Grasses	Full		Non-Wood
Red Pine	Trace		Seeding
Beech	Trace		Seeding
White Pine	Trace		Pole
Black Cherry	Trace		Sapling
Ironwood	Trace		Pole
Bracken Fern	Trace		Non-Wood

17 4311 - Pine, Aspen Mix Poletimber Well 3.6 36 51-80 N/A

= =									
Canopy Specie	es %	6 Cove	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		6	Pole	6		Red Maple	Medium	Variable	Sapling
Red Pine		6	Pole	7		White Pine	Low	Variable	Sapling
White Pine		39	Pole/Sap/Log	6	36	Beech	Trace	Variable	Sapling
Red Maple		29	Pole/Sapling	5		Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Bigtooth Aspen		20	Pole	7					

17.0

45

This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. Unlike stand 20 to the east, which was cut at the same time, this stand came back to a mix of species with not as much aspen. Past inventory notes indicate elk browse was high in this stand. Most of the red maple is barely merchantable, there are also a lot of red maple saplings in the understory of the southeast part of the stand. Average ba/acre from 4 plots 73 square feet.

18	4311 - Pine,	⁄lix I	Poletimber Well					
	Canopy Species	% Cover	Size Class	DBH	Age			
	White Pine	46	Pole/Log	8	45			
	Quaking Aspen	4	Pole	6				
	Red Pine	5	Pole/Log	8				
	Bigtooth Aspen	40	Pole	7				
	Red Maple	5	Pole/Sapling	5				

Sub-Canopy Species Size Density Avg. Height Witch Hazel Low 5 - 10 feet Tall Shruk White Pine Variable Sapling Low Sapling Red Maple Medium >20 feet

111-140

This stand was clearcut in 1977 by Champion (#53-027-74) and regenerated well to a mix of pine and aspen. Some areas are heavier to aspen, others heavier to white pine. Decent quality white pine. Trace of jack pine. Average ba/acre from 10 plots = 117 square feet. Most of the stand sits on a gradual slope that grades down to the east. Let grown and manage for white pine.

Report 7 - Stands

Compartment: 34 Year of Entry: 2024



Stan	d Level 4 C	over Type	Si	ize De	ensity	Acres Stand Age B	A Range	Managed S	Site	General Comments		
19	4119 - Mixed No	orthern Har	dwoods Pole		r Medium	30.5 97	51-80	N/A		2021 Update - Stand thinned in the winter of 2020-21 in the sale Tanager Hardwoods (#53-014-14-01), bought by Jeff Brasseur, cut by Roland		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	Rieger. Mostly good job on the sale, a few high stumps were left, residual		
	Sugar Maple	57	Pole/Log	9	97	Ironwood	Medium	5 - 10 feet	Sapling	damage not too bad. All beech was cut out of the stand except for a few		
	Basswood	18	Log	12		Beech	Medium	Variable	Sapling	stems that displayed resistance along with some good wildlife trees. Some large canopy gaps were made, mostly in the southern part of the		
	Beech	2	Pole/Log	9						stand near the road. Areas of lower stocking were excluded from the		
	Red Oak	1	Log/XLog	14	100					harvest, mostly along the edges, but also an area in the interior.		
	Bigtooth Aspen	4	Log/XLog	15								
	Ironwood	2	Pole	6								
	Red Maple	16	Pole/Log	9								
20	4130	- Aspen	Ро	letimb	er Well	23.2 35	81-110	N/A		This stand was clearcut in 1987 in the sale Section 7-2 Sale (#53-015-		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	84), bought by Champion. It regenerated well and is almost pure aspen. No overstory species diversity other than a few white pine and red maple.		
	Red Maple	3	Pole/Sapling	5		Beech	Trace	Variable	Sapling	There are also trace amounts of red oak and red pine. Other species that		
	White Pine	4	Pole/Sapling	5		White Pine	Medium	Variable	Sapling	were present but rare included; red oak and red pine. Small opening at		
	Bigtooth Aspen	93	Pole/Sapling	6	35	Witch Hazel	Trace	5 - 10 feet	Tall Shrub	the south end of the stand which looks like the old landing. Average ba/acre from 9 plots = 91 square feet. Mostly flat in the south half but the		
						Red Maple	Medium	>20 feet	Sapling	north half slopes down to the east. This stand needs at least another ten		
	4133 - Aspe	an Miyed P	line Po	lotimh	er Well	20.8 35	51-80	N/A		years of growth. Do not cut on its own. Manage as part of a larger clump with stands 21, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1987 in the sale Section 7-2 Sale (#53-015-		
21	Canopy Species	% Cover			I Age	Sub-Canopy Species	Density	Avg. Height	Size	84), bought by Champion. It regenerated well to aspen with a good mix of		
	Quaking Aspen	10	Pole/Sapling	5	. Age	Red Pine	Low	Variable	Sapling	natural pine, however diameters are quite small for its age. It is just reaching merchantability at this time. Average ba/acre from 7 plots = 66		
	Bigtooth Aspen	62	Pole/Sapling	5		Red Maple		Variable				
	Red Pine	7		1 3	35		Low	>20 feet		square feet. A small clump of large diameter aspen is in the southwest		
	White Pine		Pole		35	<u>'</u>	Low	>20 feet Variable	Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand		
		10	Pole Pole/Sap/Log	7	35	Black Cherry White Pine	Trace Medium	>20 feet Variable Variable	Sapling Tall Shrub	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on		
		10	Pole/Sap/Log	7 6	35	Black Cherry	Trace	Variable	Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand		
	Jack Pine Red Maple			7	35	Black Cherry	Trace	Variable	Sapling Tall Shrub	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12		
22	Jack Pine Red Maple	10 9 2	Pole/Sap/Log Pole Pole/Sapling	7 6 5 5	35 per Well	Black Cherry	Trace	Variable	Sapling Tall Shrub	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-		
22	Jack Pine Red Maple	10 9 2 I Upland Fo	Pole/Sap/Log Pole Pole/Sapling	7 6 5 5		Black Cherry White Pine	Trace Medium	Variable Variable	Sapling Tall Shrub	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. This stand was cut at the same time as		
22	Jack Pine Red Maple 4319 - Mixed	10 9 2 I Upland Fo	Pole/Sap/Log Pole Pole/Sapling prest Po	7 6 5 5	per Well	Black Cherry White Pine 3.9 36	Trace Medium 51-80	Variable Variable N/A	Sapling Tall Shrub Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-		
22	Jack Pine Red Maple 4319 - Mixed Canopy Species	10 9 2 Upland Fo	Pole/Sap/Log Pole Pole/Sapling prest Pole Size Class	7 6 5 5 letimb	per Well	Black Cherry White Pine 3.9 36 Sub-Canopy Species	Trace Medium 51-80 Density	Variable Variable N/A Avg. Height	Sapling Tall Shrub Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. This stand was cut at the same time as adjacent stand 20 but came back to primarily red maple and white pine, with not much aspen. Most red maple stems have signs of past girdling damage from elk. Average ba/acre from 4 plots = 80 square feet. Still a		
22	Jack Pine Red Maple 4319 - Mixed Canopy Species Red Maple	10 9 2 I Upland Fc % Cover 34	Pole/Sap/Log Pole Pole/Sapling orest Pole/Sapling Pole/Sapling	7 6 5 5 letimb 5	per Well	Black Cherry White Pine 3.9 36 Sub-Canopy Species	Trace Medium 51-80 Density	Variable Variable N/A Avg. Height	Sapling Tall Shrub Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. This stand was cut at the same time as adjacent stand 20 but came back to primarily red maple and white pine, with not much aspen. Most red maple stems have signs of past girdling damage from elk. Average ba/acre from 4 plots = 80 square feet. Still a lot of small stems, it will be several entries before this is ready for a		
22	Jack Pine Red Maple 4319 - Mixed Canopy Species Red Maple Bigtooth Aspen	10 9 2 Upland Fc % Cover 34 15	Pole/Sap/Log Pole Pole/Sapling orest Po Size Class Pole/Sapling Pole	7 6 5 5 letimb 5 7	per Well	Black Cherry White Pine 3.9 36 Sub-Canopy Species	Trace Medium 51-80 Density	Variable Variable N/A Avg. Height	Sapling Tall Shrub Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. This stand was cut at the same time as adjacent stand 20 but came back to primarily red maple and white pine, with not much aspen. Most red maple stems have signs of past girdling damage from elk. Average ba/acre from 4 plots = 80 square feet. Still a		
22	Jack Pine Red Maple 4319 - Mixed Canopy Species Red Maple Bigtooth Aspen Quaking Aspen	10 9 2 H Upland Fo % Cover 34 15 3	Pole/Sap/Log Pole Pole/Sapling orest Po Size Class Pole/Sapling Pole Pole/Sapling	7 6 5 5 letimb 5 7 6	per Well	Black Cherry White Pine 3.9 36 Sub-Canopy Species	Trace Medium 51-80 Density	Variable Variable N/A Avg. Height	Sapling Tall Shrub Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. This stand was cut at the same time as adjacent stand 20 but came back to primarily red maple and white pine, with not much aspen. Most red maple stems have signs of past girdling damage from elk. Average ba/acre from 4 plots = 80 square feet. Still a lot of small stems, it will be several entries before this is ready for a		
22	Jack Pine Red Maple 4319 - Mixed Canopy Species Red Maple Bigtooth Aspen Quaking Aspen Red Pine	10 9 2 Upland Fc % Cover 34 15 3 4 44	Pole/Sap/Log Pole Pole/Sapling Porest Pole Size Class Pole/Sapling Pole Pole/Sapling Pole Pole/Sapling Pole Pole/Sap/Log	7 6 5 5 letimb 5 7 6 8 7	per Well	Black Cherry White Pine 3.9 36 Sub-Canopy Species White Pine	Trace Medium 51-80 Density	Variable Variable N/A Avg. Height	Sapling Tall Shrub Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. This stand was cut at the same time as adjacent stand 20 but came back to primarily red maple and white pine, with not much aspen. Most red maple stems have signs of past girdling damage from elk. Average ba/acre from 4 plots = 80 square feet. Still a lot of small stems, it will be several entries before this is ready for a harvest again.		
	Jack Pine Red Maple 4319 - Mixed Canopy Species Red Maple Bigtooth Aspen Quaking Aspen Red Pine White Pine	10 9 2 H Upland Fo % Cover 34 15 3 4 44	Pole/Sap/Log Pole Pole/Sapling Porest Pole Size Class Pole/Sapling Pole Pole/Sapling Pole Pole/Sapling Pole Pole/Sap/Log	7 6 5 5 letimb 5 7 6 8 7 wtimb	per Well Age 36 per Well	Black Cherry White Pine 3.9 36 Sub-Canopy Species White Pine	Trace Medium 51-80 Density Low	Variable Variable N/A Avg. Height 5 - 10 feet	Sapling Tall Shrub Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. This stand was cut at the same time as adjacent stand 20 but came back to primarily red maple and white pine, with not much aspen. Most red maple stems have signs of past girdling damage from elk. Average ba/acre from 4 plots = 80 square feet. Still a lot of small stems, it will be several entries before this is ready for a harvest again. Natural pine stand that serves as a buffer around the adjacent leatherleaf bog. There is also a small bog at the far southern end. A variety of		
	Jack Pine Red Maple 4319 - Mixed Canopy Species Red Maple Bigtooth Aspen Quaking Aspen Red Pine White Pine 42290 - Natu	10 9 2 H Upland Fo % Cover 34 15 3 4 44	Pole/Sap/Log Pole Pole/Sapling Pole Size Class Pole/Sapling Pole Pole/Sapling Pole Pole/Sap/Log Pine Sa	7 6 5 5 letimb 5 7 6 8 7 wtimb	per Well	Black Cherry White Pine 3.9 36 Sub-Canopy Species White Pine	Trace Medium 51-80 Density Low	Variable Variable N/A Avg. Height 5 - 10 feet	Sapling Tall Shrub Sapling Size Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. This stand was cut at the same time as adjacent stand 20 but came back to primarily red maple and white pine, with not much aspen. Most red maple stems have signs of past girdling damage from elk. Average ba/acre from 4 plots = 80 square feet. Still a lot of small stems, it will be several entries before this is ready for a harvest again.		
	Jack Pine Red Maple 4319 - Mixed Canopy Species Red Maple Bigtooth Aspen Quaking Aspen Red Pine White Pine 42290 - Natu	10 9 2 H Upland Fo % Cover 34 15 3 4 44 44	Pole/Sap/Log Pole Pole/Sapling Pole Size Class Pole/Sapling Pole Pole/Sapling Pole Pole/Sap/Log Pine Sa Size Class	7 6 5 5 5 letimb 5 7 6 8 7 wwtimb DBH	per Well 36 36 ber Well	Black Cherry White Pine 3.9 36 Sub-Canopy Species White Pine 8.5 96 Sub-Canopy Species	Trace Medium 51-80 Density Low 111-140 Density	Variable Variable N/A Avg. Height 5 - 10 feet N/A Avg. Height	Sapling Tall Shrub Sapling Size Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. This stand was cut at the same time as adjacent stand 20 but came back to primarily red maple and white pine, with not much aspen. Most red maple stems have signs of past girdling damage from elk. Average ba/acre from 4 plots = 80 square feet. Still a lot of small stems, it will be several entries before this is ready for a harvest again. Natural pine stand that serves as a buffer around the adjacent leatherleaf bog. There is also a small bog at the far southern end. A variety of diameters are present including some legacy size pine. Average ba/acre from 5 plots = 134 square feet. Transitional ground, becoming wetter as you get closer to the bog. Leatherleaf is present in some areas. Do not		
	Jack Pine Red Maple 4319 - Mixed Canopy Species Red Maple Bigtooth Aspen Quaking Aspen Red Pine White Pine 42290 - Natu Canopy Species Red Pine	10 9 2 H Upland Fo % Cover 34 15 3 4 44 44 Ural Mixed I % Cover 55	Pole/Sap/Log Pole Pole/Sapling Pole Size Class Pole/Sapling Pole Pole/Sapling Pole Pole/Sap/Log Pine Sa Size Class Log/XLog	7 6 5 5 letimb 5 7 6 8 7 wwtimb DBH 15	per Well 36 36 ber Well	Black Cherry White Pine 3.9 36 Sub-Canopy Species White Pine 8.5 96 Sub-Canopy Species Red Maple	51-80 Density Low 111-140 Density Low	Variable Variable N/A Avg. Height 5 - 10 feet N/A Avg. Height Variable	Sapling Tall Shrub Sapling Size Sapling	square feet. A small clump of large diameter aspen is in the southwest part of the stand. The stand gradually slopes down to the east. This stand likely won't be ready for a harvest for two more entries but do not cut on its own. Manage as part of a larger clump with stands 20, 28, 14, and 12 which may help reduce browse damage. This stand was clearcut in 1986 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. This stand was cut at the same time as adjacent stand 20 but came back to primarily red maple and white pine, with not much aspen. Most red maple stems have signs of past girdling damage from elk. Average ba/acre from 4 plots = 80 square feet. Still a lot of small stems, it will be several entries before this is ready for a harvest again. Natural pine stand that serves as a buffer around the adjacent leatherleaf bog. There is also a small bog at the far southern end. A variety of diameters are present including some legacy size pine. Average ba/acre from 5 plots = 134 square feet. Transitional ground, becoming wetter as		

Low

Medium

Variable

Variable

Tall Shrub

Sapling

Black Cherry

White Pine

Compartment: 34
Year of Entry: 2024



											DNR DNR
Stan	d Level 4 C	Cover Type	S	ize De	nsity	Acres	Stand Age E	BA Range	Managed	Site	General Comments
24	622	25 - Bog	1	Nonsto	cked	3.0	ι	Inspecified	No		
						Sub-Car	nopy Species	Density	Avg. Height	Size	
						Re	ed Pine	Trace	>20 feet	Log	
						S	edges	Low	Unspecified	Non-Wood	
						Lea	therleaf	High	< 5 feet	Tall Shrub	
						Ja	ck Pine	Trace	< 5 feet	Seeding	
						Wh	ite Pine	Trace	>20 feet	Pole	
						Sphag	Jnum Moss	High	Unspecified	Non-Wood	
						Wh	ite Pine	Trace	>20 feet	Log	
						Ja	ck Pine	Trace	>20 feet	Pole	
						Wh	ite Pine	Trace	Variable	Sapling	
25	42220 - Na	tural Jack F	Pine Pole	etimber	Medium	1.9	35	51-80	N/A		This stand was clearcut in 1987 along with adjacent stand 21 in the sale Section 7-2 Sale (#53-015-84), bought by Champion. Unlike stand 21,
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	aspen did not come back well here and is instead dominated by jack
	White Pine	5	Pole	6		Blac	k Cherry	Trace	Variable	Tall Shrub	pine. Not great quality and not well-stocked in all places. Red pine is
	Red Pine	8	Pole/Log	8		Wh	ite Pine	Low	Variable	Sapling	mostly along the edges. Average ba/acre from 2 plots = 60 square feet.
	Jack Pine	73	Pole/Sapling	7	35						•
	Quaking Aspen	14	Pole	6							
26	42290 - Nat	ural Mixed	Pine Sa	wtimb	er Poor	74.7	96	1-50	N/A		Multi-aged pine stand due to several harvests in the past 30 years. The first harvest was a species removal in 1996 in the sale Ford Lake Pine
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Block (#53-015-94, bought by Georgia Pacific) where everything was cut
	Bigtooth Aspen	2	Pole/Sapling	5		Whit	e Spruce	Trace	Variable	Sapling	except red pine, white pine, and oak. A subsequent roundwood harvest in

first harvest was a species removal in 1996 in the sale Ford Lake Pine Block (#53-015-94, bought by Georgia Pacific) where everything was cut except red pine, white pine, and oak. A subsequent roundwood harvest in 2005 removed a large proportion of the overstory red pine. The initial species removal was a whole-tree harvest and must have created a lot of ground scarification as there is excellent mixed pine regeneration throughout many areas of the stand, although there are still some localized areas lacking regeneration. There is a several acre patch of jack pine that is approaching poletimber size in the middle part of the stand, just west of Middle Trail. This could be typed out as a separate stand next entry. The residual trees are highly variable both in their size and occurrence throughout the stand, with many areas having scattered clumps of trees. BAs for the overstory trees ranged anywhere from 0 to 170 square feet with an average of 48 square feet per acre. A small, wet draw is present near the west end of the adjacent cedar stand (stand #33). Next entry the younger age class should be approaching merchantability and should be featured in the overstory. Heavy deer and elk use throughout the stand.



Stand	Level 4 C	over Type	Si	Size Density		Acres	Stand Age B	A Range	Managed Site		General Comments	
27	42290 - Natural Mixed Pine			Sawtimber Well		42.9	92	111-140	N/A		Moderate to high quality stand dominated by natural white pine. Variable	
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Canopy	nopy Species	Density	Avg. Height	Size	density due to a species removal harvest in 1976 (#53-027-74, bought Champion) where everything except red oak, red pine, and white pine	
	Red Pine 19 Log/XLo		Log/XLog/Pole	13		Ironwood		Low	Variable	Sapling	were cut, although some larger red maple were missed. Areas heavy to	
	Bigtooth Aspen	6	Pole	7	46	White Pine		Medium	Variable	Sapling	aspen is primarily along the eastern edge. Younger red maple can be found scattered throughout. Scattered pockets of dense pine sawtimber where minimal trees were removed can also be found throughout the stand. An older age class of legacy size white pine is present, including some trees over 30" DBH. The multiple size and age classes give the	
	Paper Birch	1	Pole	8		Red Oak		Trace	>20 feet	Sapling		
	Sugar Maple	1	Pole/Log	8		Beech		Low	Variable	Sapling		
	Quaking Aspen	1	Pole	7		Red Maple Striped Maple		Medium	>20 feet	Sapling		
	Red Maple	12	Pole/Log	8				Trace	Variable	Sapling		
	Red Oak	5	Log/XLog	14						1	and white spruce. Average ba/acre from 14 plots = 132 square feet. Retain as mature forest cover and manage for an uneven-aged white pine/mixed deciduous stand. If the second age class is large enough r	
	White Pine	55	Log/XLog/Pole	14	92							
									entry, then prescribe a selection harvest with scattered canopy gaps. Protect all large diameter trees.			
28					Poletimber Well		9.3 45 81-110		N/A		This stand was clearcut by Champion in 1977 and regenerated well to aspen. A few patches of white pine are present, mostly along the east	
	Canopy Species	% Cover		_	I Age		nopy Species	Density	Avg. Height	Size	and west edges. Trace of red oak. Average ba/acre from 5 plots = 97 square feet. This stand sits on a gradual slope that grades down to the east. Still a lot of small diameters despite its age. Hold ten years but do not cut on its own. Manage as part of a larger clump with stands 21, 20 14, and 12 which may help reduce browse damage.	
	Red Pine	1	Pole/Log	8			nite Pine	Low	Variable	Sapling		
	Red Maple	8	Pole/Sapling	6		Re	Red Maple	Low	>20 feet	Sapling		
	Bigtooth Aspen	71	Pole	7	45							
	Quaking Aspen	6	Pole	6								
	White Pine	14	Pole/Log	8								
29	4191 - Mixed Upland Deciduous with Sawtimber Well Conifer				6.4 93 81-110		N/A		Mixed species stand with moderate to high quality oak and pine with some large diameter trees . A few legacy size white pine are present.			
	Canopy Species	ecies % Cover Size Class DBH Age		Sub-Canopy Species		Density A	Avg. Height	Size	This stand had a species removal harvest in 1976 (#53-027-74, bought by Champion), removing everything except oak, red pine, and white pir			
	Red Oak	44	Log/XLog	15	93	WI	nite Pine	Medium	Variable	Sapling	although it looks like several red maple were missed. Average ba/acre	
	Red Pine	8	Log/XLog	14		Strip	ed Maple	Low	Variable	Sapling	from 5 plots = 106 square feet. Rolling terrain. Manage with the	
	Bigtooth Aspen	4	Pole	8	46	Iro	onwood	Low Variable	Variable	Sapling	surrounding white pine stand, with the high browse pressure in the are even-aged techniques should not be used.	
	Quaking Aspen	2	Pole	7		Re	d Maple	Medium	Medium >20 feet	Sapling		
	White Pine	21	Log/XLog/Pole	15		Beech		Low	Variable	Sapling		
	Beech	3	Pole/Log	9								
	Red Maple	15	Pole/Log	8								
30	42200 - Nati	Natural White Pine S			er Poor	8.0 92		51-80	N/A		All species except red and white pine were cut out of this stand in 1997	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the sale Ford Lake Pine Block (#53-015-94), bought by Georgia Pacific This was a whole-tree harvest and resulted in ground scarification which	
	White Pine	70	Log/XLog/Pole	14	92	WI	nite Pine	Medium	Variable	Sapling	allowed jack pine to regenerate well, mostly in the central part of the stand. The white pine and red pine residual is scattered throughout and	
	Red Pine	20	Log/XLog	15		Ja	ick Pine	Medium	>20 feet	Sapling		
	Jack Pine	10	Pole/Sapling	5	25	Bla	ck Cherry	Low	Variable	Tall Shruk	includes some very large diameter white pine (30"+ DBH). Average ba/acre from 6 plots = 70 square feet. Allow the understory pine to	
						_	ed Pine	Low	Variable	Sapling	mature before making a management decision.	



	Pigeon River C	River Country Mgt. Unit				Rep	ort 7 – Sta	ands		Compartment: 34 Year of Entry: 2024				
Stand	d Level 4 C	Level 4 Cover Type		Size Density		Acres	Stand Age B	A Range	Managed \$	Site	General Comments			
31	42200 - Natu	ıral White I	Pine S	Sawtimber Well		17.2	92	81-110	N/A		Nice white pine stand with a variety of sizes, including some legacy tree			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	that are much older than the listed stand age. The northwest part of the stand has a higher percentage of red pine. Thinned in the fall of 2017 as			
	White Pine	64	Log/Pole/XLog			Re	ed Maple	Low	Variable	Sapling	part of the sale Prehistoric Pine, #53-015-14-01, bought by Precision. A			
	Red Pine	36	Log/XLog	14		WI	nite Pine	Low	Variable	Sapling	portion of the southwest part of the stand was excluded from the harvest			
						Re	ed Maple	Medium	< 5 feet	Seeding	due to lower BAs. Red maple seedlings are abundant in places but being heavily browsed. Average ba/acre from 14 plots = 90 square feet. Dry sit with the following understory species; wintergreen, bracken fern, and moss. As you move towards the west, site quality becomes a little better.			
						I	Beech	Low	5 - 10 feet	Sapling				
32	4133 - Aspe	en, Mixed P	Pine Po	oletimb	er Well	25.3	35	81-110	N/A		this is where the red maple begins to increase in the understory. Manage this stand in the future using uneven-aged techniques and reserve large diameter trees. A known goshawk nest is present in the southeast part of the stand, closer to the road, and was protected with a retention pocket. This stand was clearcut in 1987 in the sale Ford Lake Aspen (#53-016-			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	84), bought by K&R Logging. Aspen regenerated well although there are a few areas where it did not and in those areas mixed pine regeneration			
	Bigtooth Aspen	24	Pole/Sapling	6		Bla	ck Cherry	Low	5 - 10 feet	Sapling	is present, including a nice representation of natural red pine. Aspen			
	Red Pine	6	Pole/Sap/Log	6		WI	nite Pine	Low	Variable	Sapling	diameters vary considerably throughout the stand with several areas			
	White Pine	13	Pole/Log/Sap	7						,	being non-merchantable. The best quality and biggest diameters seem to be in the middle part of the stand. A couple of the oak are very large			
	Quaking Aspen	48	Pole/Sapling	5	35						diameter. Trace of balsam fir and white spruce poletimber. Average			
	Balsam Poplar	2	Pole/Sapling	6							ba/acre from 9 plots = 90 square feet. The far west end of the stand is			
	Jack Pine	4	Pole/Sapling	5							lowland. This stand may need another 2 entries before being ready for a final harvest.			
	Red Maple	1	Pole/Sapling	5							ma na voc.			
	Red Oak	2	Log/XLog	15										
33	6120 - Lo	wland Ceda	ar S	awtimb	er Well	4.2	134	111-140	N/A		Cedar stand of varying quality. Lots of blowdown in the middle of the stand with this area of the stand being very wet. A few nice patches of			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	cedar along the north edge. The far northeastern part of the stand has			
	White Spruce	10	Log/Pole	12			te Spruce	Low	Variable	Sapling	most of the red maple. Some nice white spruce, mostly along the			
No	orthern White Cedar	72	Log/Pole	10	134	Ta	ag Alder	Medium	10 - 20 feet	Tall Shrub	perimeter of the stand. Trace of quaking aspen and paper birch in the overstory. Average ba/acre from 4 plots = 135 square feet.			
	Balsam Fir	4	Pole	7		Ва	llsam Fir	Medium	Variable	Sapling	oversiony. Average baracle from 4 plots = 155 square reet.			
	Tamarack	2	Log/Pole	10										
	White Pine	3	Log/XLog	16										
	Red Maple	9	Log/Pole	10										
34	42200 - Natı				r Mediun	n 2.5	35	1-50	N/A		This stand was clearcut in 1987, along with stands 36 and 40, in the sal			
	Canopy Species		Size Class		l Age		nopy Species	Density	Avg. Height	Size	moderately well and mostly to mixed pine. In areas of less dense stocking the white pine is short and stubby from past weevil damage. A			
	White Pine	64	Pole/Sapling	6	35		nite Pine	Low	Variable	Sapling				
	Quaking Aspen	5	Pole/Sapling	6			ck Cherry	Low	5 - 10 feet	Tall Shrub	nice representation of natural red pine is present. Trace of red maple saplings. Average ba/acre from 3 plots = 37 square feet.			
	Red Pine	15	Pole	7		R	ed Pine	Trace	5 - 10 feet	Sapling	oling			

Bigtooth Aspen

Jack Pine

Pole

Pole

3 13 6

6 35

42110 - Planted Red Pine

Compartment: 34 Year of Entry: 2024



		_	_		.,		o			•••	on Louis of Littly. 2024
Stand	Level 4 Co	over Type		Size De	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
35	42110 - Plai	nted Red P	ine S	awtimb	er Poor	32.6	84	1-50	N/A		Stand harvested in fall of 2017 in the sale Ford Lake Red Pine, #53-004-
(Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	14-01, bought by Precision. Roundwood harvest, decided not to chip this unit to facilitate the follow-up prescribed burn. Average residual ba/acre =
	Red Oak	6	Log	12		Wh	nite Pine	Low	Variable	Sapling	
	White Pine	11	Log/Pole	11				'			survey indicated good natural pine regen and the decision was made to
	Red Pine	83	Log	13	84						remove the overstory red pine due to Diploidia concerns. Chapter 7 variance approved. Regen survey results (avg height in parentheses): red
											pine 1075 TPA (3"), white pine 367 TPA (6"), red maple 450 TPA (1').
36	4130	- Aspen	Р	oletimb	er Well	24.5	35	81-110	N/A		This stand was clearcut in 1987, along with adjacent stands 34 and 40, in
(Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the sale Section 7-2 Sale (#53-015-84), bought by Champion. Aspen regenerated well but diameters seem to be small for its age, some areas
	Jack Pine	3	Pole	6		Re	ed Pine	Low	Variable	Sapling	are barely merchantable. A few scattered clumps heavier to pine are
	Red Pine	3	Pole	6		Wh	nite Pine	Medium	Variable	Sapling	present throughout the stand. Site quality becomes better in the west half
(Quaking Aspen	10	Pole/Sapling	6		Blac	ck Cherry	Low	5 - 10 feet	Sapling	of the stand and the red maple understory becomes thick in areas. A small clump of larger aspen (5 trees), and 1 XL red pine and 1 sawlog red
	White Pine	9	Pole/Sapling	6							maple, are present in the southwest part of the stand. Average ba/acre
Е	Bigtooth Aspen	74	Pole/Sapling	6	35						from 10 plots = 84 square feet. Rolling terrain. This stand needs at least
	Red Maple	1	Pole/Sapling	5							another 10 years of growth before considering management, possibly 20.
37	6121 - ⁻	Tamarack	Р	oletimb	er Well	8.0	113	81-110	N/A		Tamarack dominated stand of varying quality. The south half of the stand
(Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	has diameters that are barely merchantable in areas. The north half has larger diameters and is where most of the cedar is located. The pine, fir,
Nort	thern White Cedar	10	Log/Pole	10		Та	ıg Alder	High	10 - 20 feet	Tall Shrub	
	Tamarack	84	Pole/Sap/Log	7	113	Ва	lsam Fir	Low	Variable	Sapling	wet stand with a mix of standing water and mossy hummocks. Trace of
	Red Maple	2	Pole/Log	8						<u> </u>	paper birch and spruce. Average ba/acre from 4 plots = 90 square feet.
	White Pine	1	Log	14							
	Balsam Fir	3	Pole	5							

81-110

N/A

00									
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	White Pine	10	Log/Pole/XLog	12	118	Beech	Trace	Variable	Sapling
	Red Oak	2	Log/Pole	13		Black Cherry	Trace	Variable	Tall Shrub
	Red Pine	88	Log/XLog/Pole	13	96	Red Pine	Trace	Variable	Sapling
						Witch Hazel	Trace	5 - 10 feet	Tall Shrub
						Red Maple	Trace	>20 feet	Sapling
						Balsam Fir	Trace	Variable	Sapling
						White Pine	Medium	Variable	Sapling
						Balsam Fir	Trace	Variable	Sap

78.5

Sawtimber Well

High quality pine stand. A large component of older natural red pine is present throughout, both individually and in pockets. Legacy size white pine are scattered throughout as well. Stand was thinned in the fall of 2017 as part of the sale Prehistoric Pine, #53-015-14-01, bought by Precision. A stick nest was found and buffered with retention. Areas of lower stocking along some of the edges were excluded. Most of the large natural pine were retained. Trace of paper birch, balsam fir, white spruce, red maple, and aspen in the overstory. Average ba/acre from 56 residual BA plots = 108 square feet. A small bog is present on the west side of the stand near Middle Trail. Rolling terrain. Manage this stand on an older rotation using uneven-aged techniques to promote big trees and old growth-like conditions, similar to what is being done in the Lovejoy Pines SCA closer to the PRC Headquarters. Thin next entry and create a few canopy gaps, retain all large diameter pine (20"+ DBH).

38

Compartment: 34 Year of Entry: 2024



Stand	Level 4 C	over Type	s S	ize De	ze Density Acres Stand Age BA Range Managed Site		Site	General Comments					
39	6239 - Mixed E	Emergent V	Vetland I	Vonsto	cked	3.2	U	nspecified	No		This wetland appears to periodically flood and overflow into stand 44 (see		
						Sub-Car	opy Species	Density	Avg. Height	Size	magery).		
						S	edges	Full	Unspecified	Non-Wood			
						Lea	therleaf	Low	< 5 feet	Tall Shrub			
						Ta	marack	Trace	>20 feet	Pole			
						Servicebe	rry (Juneberry)	Trace	Variable	Tall Shrub			
						-	Alder	Low	10 - 20 feet	Tall Shrub			
						Wh	ite Pine	Trace	>20 feet	Pole			
40	42290 - Nat	ural Mixed	Pine Po	letimb	er Well	3.0	35	51-80	N/A		This stand was clearcut in 1987 in the sale Section 7-2 Sale (#53-015-		
	Canopy Species	% Cover	r Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	84), bought by Champion. Unlike adjacent stand 36 to the west which was cut at the same time, aspen did not regenerate well here, instead a		
	Quaking Aspen	3	Pole/Sapling	5			ite Pine	Medium	Variable	Sapling	mix of pine did. Pine quality is decent but there are still a lot of small		
	Jack Pine	52	Pole/Sapling	6	35						diameters. A nice representation of natural origin red pine. Average		
	Red Pine	12	Pole/Log	8							ba/acre from 4 plots = 73 square feet.		
	White Pine	24	Pole/Sap/Log	7									
	Bigtooth Aspen	9	Pole/Sapling	7									
41	42290 - Nat	ural Mixed	Pine Po	letimb	er Well	3.8	35	51-80	N/A		This stand was clearcut, along with stand 32, in 1987 in the sale Ford		
	Canopy Species	% Cover	r Size Class	DBH	Age						Lake Aspen (#53-016-84), bought by K&R Logging. This stand		
	Quaking Aspen	2	Sapling/Pole	3							regenerated well to mixed pine, including a very impressive amount of natural red pine. Stocking is low in several areas however. A variety of		
	White Pine	26	Pole/Log/Sap	6							white pine sizes are present. Some of the oak residual is large diameter and pretty good quality, surprising for this site. Average ba/acre from 4		
	Red Pine	25	Pole/Sap/Log	5	35								
	Jack Pine	27	Pole/Sapling	6	35						plots = 78 square feet.		
	Bigtooth Aspen	13	Sapling/Pole	4									
	Red Oak	7	Log/Pole/XLog	14									
42	4133 - Asp	en. Mixed F	Pine Po	letimb	er Well	26.5	35	81-110	N/A		Moderate quality aspen stand that has just reached merchantability in		
72	Canopy Species		r Size Class		Age		opy Species	Density	Avg. Height	Size	most places. Mixed pine regeneration is abundant in some areas,		
	White Pine	19	Pole/Sap/Log	6	Age		d Maple	Low	>20 feet	Sapling	including the northwest finger which is nearly pure pine and can probably be split out as a separate stand next entry. This stand was last clearcut in		
	Jack Pine	2	Pole	6			k Cherry	Low	Variable	Tall Shruk	+ 400 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
	Red Pine	2	Pole	7			d Pine	Trace	Variable	Sapling	Average ba/acre from 11 plots = 82 square feet. Rolling terrain. This		
	Red Oak	2	Log/XLog	15			ite Pine	Medium	Variable	Sapling	stand will likely need another 2 entries of growth before ready for a harvest.		
	Quaking Aspen	16	Pole/Sapling	5		***					Tidi vost.		
	Bigtooth Aspen	54	Pole/Sapling	6	35								
	Red Maple	5	Sapling/Pole	4									
43	6121 -	Tamarack	Po	letimb	er Poor	1.8	114	1-50	N/A		This is a bog-like stand with leatherleaf dominating the more open areas.		
	Canopy Species	% Cover	r Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	A significant amount of the red and white pine in the stand is now dead or		
	Black Spruce	5	Pole/Sapling	7			ite Pine	Medium	Variable	Sapling	dying as it looks like the water table in the stand has been raised and is flooding the site. No sign of beaver activity so I'm not sure of the		
	White Pine	20	Log/Pole	14		Blac	k Spruce	Low	Variable	Sapling	reasoning for the water level increase. A few tamarack have died as well		
			5 . "			_					but most appear healthy at this time. Average ba/acre from 2 plots = 40		

Low

Trace

10 - 20 feet

Variable

Tag Alder

Red Maple

8 114

12

70

5

Pole/Log

Log/Pole

Tamarack

Red Pine

Tall Shrub

Sapling

square feet.

but most appear healthy at this time. Average ba/acre from 2 plots = 40



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age I	BA Range	Managed Site	General Comments
44	42110 - Planted Red Pine	Sawtimber Well	22.6	98	141-170	N/A	High quality pine stand with a component of larg
	Canopy Species % Cover Size Clas	s DBH Age	Sub-Ca	nopy Species	Density	Ava. Height	red and white pine. Several legacy size white pin

Canopy Species	% Cove	r Size Class	DBH	Age
Red Pine	79	Log/Pole/XLog	14	98
Red Oak	3	Log/XLog	14	
White Pine	18	Log/Pole/XLog	11	

42220 - Natural Jack Pine

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	Variable	Sapling
Black Cherry	Low	Variable	Tall Shrub
Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	Trace	10 - 20 feet	Sapling
Beech	Trace	Variable	Sapling
Red Pine	Trace	Variable	Sapling

Immoturo

NI/A

N/A

Size

rge diameter, natural origin oine. The northern tier of the stand sits on a moderately steep south facing slope and diameters tend to be much smaller in this area. The red pine in this stand is planted but the stand overall does not resemble a plantation. The most recent harvest was a species removal in 1997 (Ford Lake Pine Block, #53-015-94, Georgia Pacific) where everything was cut except for oak, red pine, and white pine. Due to that harvest BAs tend to vary with some pockets of very high BAs, especially the closer you get to the lowlands along the west edge. Average ba/acre from 11 plots = 152 square feet. Terrain is flat except for the aforementioned slopes at the north end. There is a wet area in the northwest part of the stand that appears to be connected to the adjacent wetland (stand 39) and periodically floods (see leaf off imagery). Just south of this flooded area, and closer to the western stand boundary, is what appears to be an old foundation. Old OFS record for a stick nest in the south end of the stand. A popular dispersed camping site is present at the northeast corner adjacent to the road. Manage this stand on a longer rotation and maintain large diameter trees. Using unevenaged or two-aged approaches to regenerate the stand naturally.

40	+2220 Nat	urai Jack i	1110	Saping it	neululli	30.7	20 11	IIIIature	IN/A	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	
	Red Pine	10	Sapling	3		Black	k Cherry	Low	Variable	
	Bigtooth Aspen	1	Sapling	3						
	Jack Pine	60	Sapling/Pole	e 3	25					
	Red Oak	2	Log/XLog	15						
	Red Pine	10	Log/XLog	15	98					

12

3

Log/Pole/Sap

Sapling

Sanling Medium

30.7

25

This stand had a species removal harvest in 1997 in the sale Ford Lake Pine Block (#53-015-94), bought by Georgia Pacific. Everything was cut except for red pine, white pine, and oak. The residual averages around Tall Shrub 25 square feet per acre but is highly variable and clumpy. Higher residual BAs can be found at the south end and particularly along the west side, adjacent to stands 41 and 44, this area could potentially be typed out as a W7 next entry is desired. Red oak is primarily at the far south end of the stand. A narrow finger of mature red pine is present at the far north end. Jack pine regenerated well in many areas, especially in the central part of the stand closer to the landing, but there are still spots lacking much regeneration. A few areas have a nice representation of red pine regeneration. All size classes of white pine are present. The landing was in the middle part of the stand (see 98DOQ imagery) and is still somewhat open, apparently this was an old Tordon opening. Flat terrain.

46	42260 - Naturai Pine	, iviixea	Deciduous Pol	etimb	er wei
	Canopy Species 6	% Cove	r Size Class	DBH	Age
	Red Maple	7	Sapling/Pole	4	
	Red Pine	49	Pole/Sap/Log	6	35
	White Pine	11	Pole/Sap/Log	7	
	Quaking Aspen	2	Sapling	3	
	Bigtooth Aspen	24	Sapling/Pole	4	
	Jack Pine	5	Pole/Sapling	5	
	Red Oak	2	Pole/Sapling	6	

13

4

40000 Notural Dina Miyad Dasidyaya

10.5	55	01-110	14/74	
Sub-Can	opy Species	Density	Avg. Height	Size
Witc	h Hazel	Low	5 - 10 feet	Tall Shrub
Black	Cherry	Low	Variable	Tall Shrub
				<u> </u>

81-110

This stand was clearcut in 1987 in the sale Ford Lake Aspen (#53-016-84. K&R Logging) and regenerated very well to natural red pine, with a mix of other species including a few oak. The southern 1/3rd of the stand is the only area that did not regenerate well as there are scattered areas of U with little to no regeneration. The aspen regeneration throughout the stand is mostly smaller than the pine of the same age, which is strange, although I'm guessing browse knocked the aspen back enough to allow the pine to get a head start. Scattered residual red maple, oak, aspen, and red pine are present, mostly in the southern half of the stand. The witch hazel component is mostly at the northern end of the stand. Average ba/acre of the stand from 8 plots = 103 square feet. Most of the stand sits on a slight east-facing slope. The Shingle Mill Pathway travels along the eastern boundary of the stand.

AE

White Pine

Quaking Aspen

5

Pole/Sapling

DNR PROPERTY OF NATURAL PR

Compartment: 34 Year of Entry: 2024

											Year of Entry: 2024		
Stand	Level 4 C	over Type		Size Density			Acres Stand Age BA Range			Site	General Comments		
47	42110 - Pla	nted Red P	ine S	Sawtimb	er Well	29.4	85	81-110	N/A		Planted red pine stand with a component of oak. The most recent harvest		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	in the stand was a species removal in 1997 (Ford Lake Pine Block, #53-015-94, Georgia Pacific), where everything was cut except for oak, red		
	Red Pine	78	Log/Pole	13	85	Wh	ite Pine	Medium	Variable	Sapling	pine, and white pine. As a result, stocking varies significantly, ranging		
	Red Oak	12	Log/Pole	13		Re	ed Pine	Low	< 5 feet	Seeding	anywhere from 20 to 150 square feet, with a few small pockets of dense		
	White Pine	10	Log/Pole	12		Re	ed Pine	Trace	Variable	Sapling	red pine that resemble un-thinned plantations. The majority of the stand, however, does not resemble a typical plantation. There are a few small		
						Red	d Maple	Low	>20 feet	Sapling	areas of nice natural red pine regeneration where BAs are lower, however		
	42110 - Pla	ntod Pod P	ino (Sawtimb	or Wall	37.1	96	81-110	N/A		these areas are rare throughout the stand. The oak component occurs both individually and in small clumps, with a few XL-sized trees mixed in. The oak is of moderate quality and appears healthy. Average ba/acre of the stand from 10 plots = 106 square feet. Rolling terrain to the north while the south-running finger of the stand lies on a slight north/south ridgeline.		
48											Moderate quality red pine stand with highly variable stocking due to a pecies removal harvest in 1997 (Ford Lake Pine Block, #53-015-94,		
	Canopy Species		Size Class		l Age		nopy Species		Avg. Height	Size	Georgia Pacific) where everything was cut except for red pine, white pine,		
	Red Pine	83	Log/XLog/Pol		96		sam Fir	Trace	Variable	Sapling	and oak. Regeneration came back well to white pine in many areas. The red oak residual is almost all in the southwest part of the stand, there is a		
	Red Maple	1	Pole	7			Beech	Trace	Variable	Sapling	popular camping spot in this area too. In the southeast part of the stand there is a small ridgeline running SW to NE which was not harvested in		
	Bigtooth Aspen	1	Pole/Log	9			nite Pine	High	Variable	Sapling			
	Red Oak	4	Log/Pole/XLo	-			ed Pine	Trace	Variable	Sapling	the species removal and still has some aspen, birch, and red maple. Just west of this ridgeline is an old pit. Unsure what the purpose was as the pit		
	White Pine	11	Log/Pole/XLo	g 11			oth Aspen	Low	>20 feet	Sapling	is quite deep. A second age class of older natural red pine is scattered		
							d Maple	Medium	>20 feet	Sapling	throughout. There are a few white pine legacy trees as well. Trace of		
							ch Hazel	Trace	5 - 10 feet	Tall Shrub	paper biren, witte oprace, and baleari in: Average baracie ireni 17 piece		
							ck Pine	Trace	Variable	Sapling	= 97 square feet.		
						Biac	k Cherry	Trace	Variable	Tall Shrub			
49	42220 - Nat			Sapling I		8.9		mmature	N/A		This stand originated following a species removal harvest in 1997 (Ford Lake Pine Block, #53-015-94, Georgia Pacific), where everything was cut		
	Canopy Species		Size Class		I Age		nopy Species	Density	Avg. Height	Size	except for oak, red pine, and white pine. The red pine overstory was then		
	White Pine	9	Pole/Sap/Log	_			ed Pine	Low	5 - 10 feet	Sapling	removed in 2005 in the sale Intersection Pine (#53-002-04), bought by		
	Red Pine	23	Sapling	2		Blac	k Cherry	Trace	Variable	Tall Shrub	Hydrolake. Jack pine and red pine regenerated well following the initial harvest in 1997. However, there are some scattered areas lacking		
	Jack Pine	65	Sapling/Pole		25						regeneration, likely a result of the recent overstory removal. Trace of		
	Red Oak	2	Log/Pole	12							white pine sawlog-sized trees throughout. Trace of balsam fir and white		
	Bigtooth Aspen	1	Sapling	3							spruce saplings along the northern edge.		
50	4130	- Aspen	F	Poletimb	er Well	8.5	35	81-110	N/A		This stand was clearcut in 1987 in the sale Ford Lake Aspen (#53-016-		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	84), bought by K&R Logging, along with adjacent stands 55 and 60 to the north. It came back well to aspen but diameters seem to be a bit smaller		
	Red Maple	7	Pole/Sapling	5		Blac	k Cherry	Low	5 - 10 feet	Tall Shruk			
	Bigtooth Aspen	74	Pole/Sapling	5	35	Wh	ite Pine	Low	Variable	Sapling	here as there are trace amounts of sugar maple and ironwood saplings.		
	Red Pine	4	Pole/Sapling	9 6		Re	ed Pine	Low	Variable	Sapling	Perhaps the shading influence from red pine stands to the west stunted the growth a little? There are a few areas with a lot of red pine saplings in		
	Jack Pine	1	Pole	6		Wite	ch Hazel	Trace	5 - 10 feet	Tall Shrub	ine growth a little: There are a rew areas with a lot of red pine sapiling		
	White Pine	4	Pole/Sapling	9 6		Red	d Maple	Medium	>20 feet	Sapling	present but rare included red oak and beech. Average ba/acre from 5		
					——————————————————————————————————————				l .		blots = 104 square feet.		

10

Quaking Aspen

plots = 104 square feet.



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
51	42110 - Pla	nted Red P	ine	Sawtimbe	er Well	13.7	85	111-140	N/A		Moderate to high quality red pine stand. Variable stocking due to a
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	species removal harvest in 1997 (Ford Lake Pine Block, #53-015-94, Georgia Pacific), where everything was cut except for red pine, white
	Red Pine	80	Log/Pole	13	85	Re	d Maple	Low	>20 feet	Sapling	pine, and oak. As a result this stand does not resemble a standard red
	Red Oak	8	Log/Pole	13		Wh	nite Pine	Low	Variable	Sapling	pine plantation. Several areas of dense stocking that could be thinned,
	White Pine	12	Log/Pole	11		Bigto	oth Aspen	Trace	>20 feet	Sapling	while there are other areas of much lower stocking. Red oak is mostly in a single pocket on the western edge of the stand. Trace of XL-sized red
											and white pine. Old fire charred stumps scattered throughout. Average ba/acre from 5 plots = 137 square feet. Rolling terrain. The Shingle Pathway follows the entire southern edge of the stand, and another sof the trail heads north through the east end of the stand. Due to its proximity to Ford Lake and trail influence, this stand should be mana on a longer rotation.
52	42290 - Natu		Pine S	Sawtimber	Medium Age		84	81-110 Density	N/A Ava. Height	Size	Mixed red and white pine overstory of varying stocking and diameters. This is largely a result of a species removal harvest in 1997 (Ford Lake

52	42290 - Natt	ıraı iviixed	a Pine Saw	imber	iviedit	ım s	33.2	84	81-110	IN/A	
	Canopy Species	% Cov	er Size Class	DBH	l Age	Sı	ub-Can	opy Species	Density	Avg. Height	Size
	Red Pine	38	Log/Pole/XLog	13			Whi	te Pine	Medium	Variable	Sapling
	White Pine	53	Log/Pole/XLog	10	84		Re	d Pine	Low	Variable	Sapling
	Red Oak	8	Log/XLog	16			Jac	k Pine	Medium	Variable	Sapling
	Red Maple	1	Pole	7			Red	d Maple	Trace	>20 feet	Sapling
							White	e Spruce	Trace	Variable	Sapling
							Bigtoo	oth Aspen	Trace	>20 feet	Sapling
							Black	k Cherry	Low	Variable	Tall Shrub

rarying stocking and diameters. noval harvest in 1997 (Ford Lake Pine Block, #53-015-94, Georgia Pacific) where everything was cut except for red pine, white pine, and oak. Much of the remaining red pine was then removed in an overstory removal harvest in 2006 (Skull and No Bones Red Pine, #53-016-04, Bisballe), however there still remains guite a bit of red pine, including a few dense clumps. Overall, white pine tends to be dominant in the overstory and includes some areas where poletimber is abundant. Red oak becomes common in the overstory in the north half of the stand. Regeneration came back moderately well after the initial species removal harvest with a few areas of nice mixed pine regen on the more heavily scarified skid trails. Trace of white spruce and balsam fir poletimber at the south end. Average ba/acre from 9 plots = 102 square feet. Gently rolling terrain. The Shingle Mill Pathway borders much of the western side of the stand. Allow the white pine overstory to grow more before considering a harvest.

53	4310 - Pin	e, Oak Mi	x	Sawtimb	er Well	3.3	84	111-140	N/A	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size
	Red Oak	44	Log/Pole	12		Wh	nite Pine	Low	Variable	Sapling
	White Pine	7	Log/Pole	11		Re	d Maple	Low	>20 feet	Sapling
	Red Pine	49	Log/Pole	12	84					

Small stand of oak and pine. The west half sits on an elevated knob overlooking Ford Lake, with slopes running down to the east. This stand apparently had a species removal harvest in 1997 along with the adjacent stand to the west (#47), removing everything except red pine, white pine, and oak. The oak ranges from moderate to poor quality. Trace of quaking aspen and bigtooth aspen along the east side. Average ba/acre from 3 plots = 130 square feet.

54	42110 - 1 lant	ca itca i	IIIC	Sawiiiib	CI VVCI	1 1.1	00	141-170	IN/A	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano	py Species	Density	Avg. Height	Size
	White Pine	1	Log/Pole	10		Jack	Pine	Trace	Variable	Sapling
	Red Pine	97	Log/Pole	13	85	White	Spruce	Trace	10 - 20 feet	Sapling
I	Bigtooth Aspen	1	Pole/Log	9		Red	Pine	Trace	Variable	Sapling
	Red Oak	1	Log/Pole	13		White	e Pine	Low	Variable	Sapling

1 1

95

1/1 170

Soutimber Well

Small stand of nice quality, planted red pine. Only records of a past harvest are a species removal in 1997, where everything was cut except for oak, red pine, and white pine, although they missed about 3 aspen stems along the east edge of the stand. Average ba/acre from 2 plots = 170 square feet. A little bit of jack pine, red pine, and spruce regen at the northern edge of the stand. This stand is very small for management. It could be left as retention for the surrounding landscape.

E A

42110 - Planted Red Pine

NI/A



Stand	d Level 4 C	Level 4 Cover TypeSize DensityAcresStand AgeBA RangeManaged Site4133 - Aspen, Mixed PinePoletimber Well17.43551-80N/A	Site	General Comments									
55	4133 - Aspe	en, Mixed P	ine Po	oletimb	er Well	17.4	35	51-80	N/A		This stand was clearcut in 1987 in the sale Ford Lake Aspen (#53-016-		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	84), bought by K&R Logging. Regeneration came back well to aspen except for some scattered pockets which filled in with pine, including a		
	Red Pine	11	Pole/Sap/Log	6		Wł	nite Pine	Low	Variable	Sapling	nice representation of natural red pine. Size and stocking of aspen		
	Bigtooth Aspen	60	Pole/Sapling	6	35	Servicebe	erry (Juneberry)	Trace	Variable	Tall Shrub	increase as you move northward in the stand. Most red maple stems		
	White Pine	4	Pole/Sapling	6		R	ed Pine	Low	Variable	Sapling	have been badly damaged by elk girdling the stems. Trace of balsam fir white spruce, and red oak poletimber. Average ba/acre from 6 plots = 76		
	Jack Pine	5	Pole/Sapling	6		Re	d Maple	Low	>20 feet	Sapling	square feet. Flat terrain.		
	Quaking Aspen	13	Pole/Sapling	6		Blad	ck Cherry	Medium	Variable	Tall Shrub			
	Red Maple	7	Pole/Sapling	5				1	1	1			
56	6239 - Mixed E	mergent W	etland	Nonsto	cked	2.5	U	nspecified	No				
					Ī	Sub-Ca	nopy Species	Density	Avg. Height	Size			
						S	edges	Full		Non-Wood			
						R	ed Pine	Trace		Seeding			
						Wil	low spp.	Trace		Tall Shrub			
						Ja	ck Pine	Low		Seeding			
						Ja	ck Pine	Trace		Sapling			
57	42290 - Natu	ural Mixed F	Pine S	awtimb	er Well	9.0	85	141-170	N/A		Mixed pine stand of good quality, although diameters on the white pine		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	tend to be small in places. Dense stocking throughout most of the stand. The red pine component is planted while the white pine appears natural		
	Red Pine	43	Log/Pole/XLog	13		Wł	nite Pine	Medium	Variable	Sapling	The west/northwest half of the stand is dominated by white pine while re		
	White Pine	52	Pole/Log/XLog	9	85			1	1		pine becomes more dominant in the other. Legacy white pine are		
	Quaking Aspen	5	Log	11							scattered throughout as are a few 20"+ natural red pine. The aspen component is starting to senesce. Trace of jack pine and red maple.		
											Average ba/acre from 6 plots = 155 square feet.		
58	42210 - Nat	tural Red P	ine S	awtimb	er Well	10.7	85	141-170	N/A		This stand serves as a buffer around Ford Lake. Most of the stand sits of		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	relatively steep slopes. Do not manage.		
	Red Pine	60	Log/Pole	14	85	Wh	nite Pine	Low	Variable	Sapling			
	Jack Pine	14	Pole/Log	8									
	Red Oak	3	Log/Pole	11									
	Paper Birch	3	Log/Pole	10									
	Bigtooth Aspen	7	Pole/Log	8									
	White Pine	11	Log/Pole	12									
	Red Maple	2	Pole	8									
59	500 -	- Water		Nonsto	cked	7.8	U	nspecified	No		Ford Lake		
						Sub-Ca	nopy Species	Density	Avg. Height	Size			
						9	edges	Trace		Non-Wood			



Stand	d Level 4 C	Cover Type Size Density Acres Stand Age BA Range Managed Site Pine, Mixed Deciduous Poletimber Poor 15.6 35 1-50 N/A		Site	General Comments						
60	Canopy Species % Cover Size Class DBH Age Su		or 15.6	35	1-50	N/A		This stand was clearcut in 1987 in the sale Ford Lake Aspen (#53-016-			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	84), bought by K&R Logging. Regeneration did not come back well and this is now a poorly-stocked stand with a lot of low quality, multi-forked	
	White Pine	12	Pole/Sap/Log	6	W	hite Pine	Low	Variable	Sapling	jack pine and white pine. A few small aspen clones are scattered	
	Jack Pine	25	Pole/Sapling	5	F	Red Pine	Low	< 5 feet	Sapling	throughout. The quaking aspen appears very unhealthy in some areas,	
	Red Pine	29	Pole/Sap/Log	5 35	Bla	ack Cherry	Medium	5 - 10 feet	Tall Shrub	with dying tops and hypoxylon canker. A small amount of younger pine has seeded in which may help fill in the stand over time. Average ba/acre	
	Red Maple	2	Sapling	3	J	ack Pine	Low	< 5 feet	Sapling	from 6 plots = 43 square feet.	
	Bigtooth Aspen	20	Pole/Sapling	6							
	Quaking Aspen	12	Pole/Sapling	6							
61	42111 - Planted Dec	d Red Pine, ciduous	Mixed S	awtimber W	ell 14.4	85	111-140	N/A		Planted red pine stand with a significant component of oak. It does not have the appearance of a red pine plantation. The last harvest was a	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	species removal in 1997 where everything was cut except for red pine,	
	Red Pine	60	Log/Pole	12 85	-	ed Maple	Low	10 - 20 feet	Sapling	white pine, and oak. The oak is poor to moderate quality. Suppressed repine poletimber can be found throughout as this stand hasn't had a	
	Jack Pine	1	Pole/Log	9		hite Pine	Low	Variable	Sapling	typical thinning before. Average ba/acre of the stand from 8 plots = 126	
	Red Maple	1	Pole	6						square feet. A small sinkhole with steep slopes around the edges is	
	Red Oak	33	Log/Pole	12						present at the far western end of the stand. This area was not previously included in the species removal harvest and still retains some aspen,	
	White Pine	3	Log/Pole	10						maple, jack pine, and birch. The sinkhole is wet with predominantly	
	Bigtooth Aspen	2	Log/Pole	11						cattails growing in it. This stand is in close proximity to Ford Lake so a two-aged or uneven-aged approach should be used for visual purposes.	
						ack Pine /hite Pine	Trace Low	< 5 feet Variable	Seeding Sapling	browse damage?	
						intergreen	Low	< 5 feet	Tall Shrub		
					Bra	acken Fern	Medium	Unspecified	Non-Wood		
					Cladonia	(Reindeer moss) Medium	Unspecified	Non-Wood		
					J	ack Pine	Low	Variable	Sapling		
					J	ack Pine	Trace	>20 feet	Pole		
					F	Red Pine	Trace	>20 feet	Pole		
					Mix	ed Grasses	High	Unspecified	Non-Wood		
					V	hite Pine	Trace	>20 feet	Pole		
					Bla	ack Cherry	High	Variable	Tall Shrub		
					F	Red Pine	Trace	Variable	Sapling	Stand was cut in the fall/early winter of 2017 in the sale Ford Lake Rec	
63	42110 - Pla	inted Red P	rine S	awtimber Po	or 24.5	86	1-50	N/A			
	Canopy Species	% Cover	Size Class	DBH Age	•					Pine, #53-004-14-01, bought by Precision. Roundwood harvest followed up by chipping of the tops. Quite a bit of ground scarification took place	
	Red Oak	2	Log	11						here which will hopefully allow for some natural red pine regeneration.	
	White Pine	8	Pole/Log	9						Average residual ba/acre = 21 square feet.	
	Red Pine	90	Log	13 86						2021 - Regen survey indicated excellent natural pine regen and the	
					_					decision was made to remove the overstory red pine due to Diploidia concerns. Chapter 7 variance approved. Regen survey results (avg heigin parentheses): red pine 1815 TPA (6"), white pine 223 TPA (6").	

Compartment: 34 Year of Entry: 2024



Stand	Level 4 C	over Type	s	ize De	nsity	Acres	Stand Age	BA Range	Managed 9	Site	General Comments	
64	42290 - Natu	ural Mixed I	Pine Po	letimb	er Poor	19.5	25	1-50	N/A		A difficult stand to type due to multiple size clas	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	pine. However, white pine saplings and poletim throughout. The past harvest history of this sta	
	White Pine	58	Pole/Sap/Log	6	25	Re	ed Maple	Trace	>20 feet	Sapling	removal in 1997 (Ford Lake Pine Block, #53-01	
	Jack Pine	4	Pole/Sapling	5		W	hite Pine	Medium	Variable	Sapling	where everything was cut except for red pine, w	
	Red Oak	1	Log/XLog	16		Bla	ck Cherry	Medium	Variable	Tall Shrub	next harvest was in 2005 in the sale Skull and I 016-04, Bisballe) where most of the overstory r	
	Red Maple	2	Pole	6		Wi	tch Hazel	Trace	5 - 10 feet	Tall Shrub		
	Red Pine	35	Log/XLog/Pole	14	96	R	ed Pine	Low	Variable	Sapling	but there are also scattered poletimber residual	
						Ja	ack Pine	Low	Variable	Sapling	very large diameter red pine (20"+). The white personant as numerous, although there are a few log-size	
											throughout, including a handful of legacy size to regenerated moderately well after the first specthere are a few areas with jack and red pine reghowever, it looks like a lot of the existing regenthe 2005 removal harvest as there are scattere regeneration mixed in throughout the stand. I wontinue to fill in these open areas but it will be stand has the potential for timber management plots = 47 square feet. Flat terrain.	

e size classes of both red and white nd poletimber tend to be dominant of this stand consists of a species ck, #53-015-94, Georgia Pacific) ed pine, white pine, and oak. The Skull and No Bones Red Pine (#53overstory red pine were removed. ft, most in the 13-14" DBH range, er residual trees as well as a few he white pine residual is not nearly w log-size trees scattered acy size trees. White pine first species removal harvest, and ed pine regeneration mixed in. ting regeneration was destroyed in e scattered open areas with minimal stand. I would expect white pine to it it will be many years before this nagement. Average ba/acre from 7 plots = 47 square feet. Flat terrain.

65	4133 - Aspe	n, Mixed P	ine	Poletimb	er Well	10.6	35	81-110	N/A	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size
	White Pine	28	Pole/Sap/Lo	g 6		Blac	k Cherry	Medium	Variable	Tall Shrub
	Jack Pine	3	Pole	6		Re	d Maple	Medium	Variable	Sapling
	White Spruce	1	Pole	7		Re	ed Pine	Low	Variable	Sapling
	Red Pine	2	Pole/Sapling	g 7		Wh	ite Pine	Medium	Variable	Sapling
	Red Maple	2	Sapling/Pole	e 4					1	1
	Bigtooth Aspen	59	Pole/Sapling	g 5	35					

5

This stand was clearcut in 1987 in the sale Ford Lake Aspen (#53-016-84, K&R Logging). Aspen regenerated well in many areas but so did white pine, particularly in the west half of the stand where it is dominant in places. Old inventory notes indicate that browse was a problem in this stand. Other species that are present but rare included; paper birch, balsam fir, and red oak. Average ba/acre from 5 plots = 86 square feet. A large portion of this stand sits on a moderately steep east/southeast facing slope.

66	6112 - Lowl	and Asp	en Po	oletimb	er Well	l 3.6	35	81-110	N/A	
	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size
	White Pine	7	Pole/Sap/Log	7		Blac	k Cherry	Medium	Variable	Tall Shrub
	Balsam Fir	1	Pole	7		Balsa	m Poplar	Low	Variable	Sapling
	Balsam Poplar	5	Pole/Sapling	6		White	e Spruce	Trace	Variable	Sapling
	Red Pine	1	Pole	7		Ta	g Alder	High	10 - 20 feet	Tall Shrub
(Quaking Aspen	77	Pole/Sapling	7	35	Red	d Maple	Trace	Variable	Sapling
	White Spruce	9	Pole/Sapling	7		Servicebe	rry (Juneberry	') Trace	Variable	Tall Shrub

This stand was clearcut in 1987 in the sale Ford Lake Aspen (#53-016-84, K&R Logging). Aspen regenerated well as did conifers, which can be found mostly along a strip on the southern edge adjacent to the road. Diameters on the aspen vary considerably, a few areas having stems approaching sawlog-size, while other areas are just over minimum merchantability standards. Thick alder in the understory in some place. Trace of paper birch in the overstory. Found one 4" white oak adjacent to the road. Average ba/acre from 4 plots = 88 square feet.

Quaking Aspen

5

Pole/Sapling

Compartment: 34 Year of Entry: 2024



Stand	Level 4 Co	over Type	s	ize Densi	ty	Acres	Stand Age B	A Range	Managed Site		General Comments				
67	42290 - Natu	ural Mixed	Pine Sa	apling Med	ium	40.3	27	1-50	N/A		This stand had a jack pine/aspen/maple species removal harvest in 1995 in the sale Section 9 Pine Block (#53-013-94), bought by Georgia Pacific. This harvest led to a lot of scarification and good red pine regeneration.				
	Canopy Species	% Cove	Size Class	DBH A	je	Sub-Ca	nopy Species	Density	Avg. Height	Size	This harvest led to a lot of scarification and good red pine regeneration.				
	Red Pine	12	Log/XLog	14 9	6	Blad	ck Cherry	Medium	5 - 10 feet Tall Shrub A		An overstory removal harvest was then completed in 2007 in the sale				
	Red Pine	46	Sapling	2 2	7						Whip-poor-will Red Pine (#53-017-04, bought by Bisballe), removing a				
	Red Maple	1	Pole	7							large part of the remaining red pine overstory trees except for some scattered seed trees. It looks like all merchantable white pine and oak				
	Red Oak	4	Log/Pole	12							were left as well. The residual BA is highest in the NW corner of the				
	White Pine	7	Sapling	2					5		stand. A difficult stand to type as all size classes of red and white pine				
	Jack Pine	13	Sapling/Pole	4							are present in the stand, however red pine saplings are the dominant size class. Supercanopy red pine are mostly in the large log to xlog size				
	Bigtooth Aspen	10	Sapling/Pole	3							diameter range (14-18 inch DBH) but there are a few scattered				
	White Pine	7	Log	12							poletimber trees and smaller sawlog trees. Red pine saplings are abundant, however they tend to be prevalent in clumps and are not				
											uniform throughout. This is likely a result of the past whole-tree harvest where scarification is usually best in skid trails and is not uniform. A few small aspen clumps are present, mostly in the north half of the stand or near the road. Overall, this is impressive natural red pine regeneration and will result in at least a moderately stocked stand in the future. Trace of white spruce poletimber. Rolling terrain.				
68	42110 - Pla	nted Red F	Pine Saw	timber Me	dium	34.0	85	111-140	N/A		Planted red pine with a large component of red oak and white pine. A				
	Canopy Species	% Cove	Size Class	DBH A	je	Sub-Ca	nopy Species	Density	Avg. Height	Size	past jack pine/aspen/maple species removal in 1995 in the sale Section 9 Pine Block (#53-013-94, Georgia Pacific) resulted in highly variable				
	White Pine	12	Log/Pole	12		Blad	ck Cherry	Medium	5 - 10 feet	Tall Shrub	stocking. The overstory tends to be clumpy, alternating between dense				
	Red Maple	1	Pole	7		Wit	ch Hazel	Trace	5 - 10 feet	Tall Shrub	clumps and areas with lower BAs. Most areas of the stand do not				
	Red Pine	69	Log/Pole/XLog	13 8	5	Bigto	oth Aspen	Trace	Variable	Sapling	resemble a plantation. Red oak quality is generally poor although some of the larger stems are good quality. The white pine overstory component is				
	Red Oak	18	Log/Pole/XLog	12		Wł	nite Pine	High	Variable	Sapling	highest at the north end of the stand. Although rare, a second age class				

Low

Low

Trace

Variable

Variable

Variable

Tall Shrub Sapling

Sapling

Beech Trace Variable Sapling Red Maple Trace >20 feet Sapling Sapling Red Pine Trace Variable Jack Pine Trace Variable Sapling 60 42290 - Natural Mixed Pine Sawtimber Well 1.8 85 81-110 N/A **Sub-Canopy Species** Size Density Avg. Height White Pine Medium Variable Sapling

Black Cherry

Red Maple

Beech

Small mixed pine stand sitting on a slight ridge that overlooks the Pigeon River. A popular camping area is at the north end of the stand. A few very large red and white pine are present (20"+). Average ba/acre from 3 plots = 107 square feet.

of large diameter, older natural red pine is scattered throughout the

road should not be managed with even-aged techniques due to its proximity to Ford Lake. The Shingle Mill Pathway runs east-west through

stand. Trace of XL-sized white pine. Average ba/acre from 9 plots = 118

the southern part of the stand. The red pine in this stand was planted in 1924 but had to be re-planted in 1937 after the initial planting failed.

square feet. Gently rolling terrain. The portion of the stand west of the

69	42250 - Natura	II IVIIACU	Tille Sal	Willing	SI VVC
	Canopy Species 9	% Cove	r Size Class	DBH	Age
	Red Pine	50	Log/XLog/Pole	13	85
	Paper Birch	2	Pole/Log	9	
	Bigtooth Aspen	13	Log	12	
	Red Maple	9	Pole/Log	8	
	Red Oak	1	Log/Pole	11	
	White Pine	20	Log/Pole	12	
	White Spruce	1	Pole/Log	8	
	Quaking Aspen	4	Log	12	

DOHMN



Stanc	d Level 4 C	el 4 Cover Type Size Density Acres Stand Age BA Range Managed S 4130 - Aspen Poletimber Well 10.5 44 81-110 N/A		Site	General Comments						
70		- Aspen						81-110	N/A		This stand was clearcut in 1978 by Champion and regenerated well to aspen. A few sawlog-sized red and white pine are mixed in at the far
	Canopy Species	% Cover		DBH	Age		opy Species	Density	Avg. Height	Size	northwest corner, and there is also one large red oak in this area as well.
	Red Pine	2	Pole/Log	9			Maple	Medium	Variable	Sapling	Trace of pole/log white spruce, pole/sap red oak, and pole/sap balsam fir.
	Quaking Aspen	20	Pole	7			te Pine	Medium	Variable	Sapling	Average ba/acre from 6 plots = 110 square feet. Portions of this stand sit on a east/southeast facing slope. Aspen diameters are close to being
	Red Maple	6	Pole/Sapling	5			Spruce	Trace	Variable	Sapling	large enough to be harvested but would benefit from one more entry of
	Bigtooth Aspen	59	Pole/Sapling	7	44		ry (Juneberry)	Low	Variable	Tall Shrub	growth.
	White Pine	13	Pole/Sap/Log	6			am Fir	Trace	Variable	Sapling	
						Black	Cherry	Medium	Variable	Tall Shrub	
71	42110 - Pla	nted Red P	ine Sa	wtimbe	r Well	17.6	85 1	41-170	N/A		High-quality planted red pine that had a jack pine/aspen/maple species removal harvest in 1995 in the sale Section 9 Pine Block (#53-013-94,
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	Georgia Pacific), which resulted in BAs that vary significantly. Portions of
	Red Oak	3	Log/Pole	12		Red	Maple	Trace	Variable	Sapling	the southwest part of the stand were not cut and are basically un-thinned
	White Pine	8	Log/Pole	12		Whit	te Pine	Medium	Variable	Sapling	plantations. Gaps created from that harvest are filling in with white pine
	Red Maple	1	Pole	7		Be	eech	Trace	Variable	Sapling	and some red pine regeneration. A second age class of large diameter, older natural red pine is common throughout the stand. Trace of XL-sized
	Red Pine	88	Log/Pole/XLog	13	85	Witch	h Hazel	Trace	5 - 10 feet	Tall Shrub	white pine. Average ba/acre from 8 plots = 158 square feet. Initially
						Red	d Pine	Trace	Variable	Sapling	planted in 1924 but that was a failure and was re-planted in 1937.
						Jacl	k Pine	Trace	Variable	Sapling	
						Black	Cherry	Low	Variable	Tall Shrub	
72	42110 - Pla	nted Red P	ine Sa	wtimbe	r Well	43.0	85 1	11-140	N/A		Somewhat unique planted red pine stand that has a second component
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	of large diameter, old natural red pine as well as numerous legacy size white pine. Highly variable stocking due to a past jack pine/aspen/maple
	Red Maple	1	Pole	7		Jacl	k Pine	Trace	Variable	Sapling	species removal harvest in 1995 (Section 9 Pine Block, #53-013-94,
	Red Oak	2	Log/Pole	13		Red	Maple	Trace	Variable	Sapling	Georgia Pacific). Many areas of lower stocking are scattered throughout
	Red Pine	83	Log/Pole/XLog	13	85	Ве	eech	Trace	Variable	Sapling	the stand as a result of that harvest and they have filled in well with white pine, very dense in many places. On the other hand, there are also areas
	White Pine	14	Log/Pole/XLog	12	131	Red	d Pine	Trace	>20 feet	Sapling	of higher stocking that resemble a typical red pine plantation. Three
						Whit	te Pine	High	Variable	Sapling	distinct age classes in this stand; planted pine, XL-sized natural pine, and
						Witch	h Hazel	Trace	5 - 10 feet	Tall Shrub	sapling sized natural pine regen. A lot of large snags are present. Other species that were present but rare include white spruce and bigtooth
						Black	Cherry	Low	5 - 10 feet	Tall Shrub	aspen. Average ba/acre from 15 plots = 120 square feet. Rolling terrain.
											Per the Concept of Management, this stand should be managed with big- tree silviculture in mind and using uneven-aged techniques to promote a stand of large trees and diverse vertical structure.
73	6128 - Lowland Dec	Coniferous iduous	, Mixed Sa	wtimbe		18.5	83	81-110	N/A		Diverse stand of varying composition with the Pigeon River flowing through the entire length of the stand. North of the river tends to have
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	mostly spruce, fir, and lowland popple. The spruce is generally high quality and healthy. South of the river has some of these same
	White Pine	15	Log/Pole/XLog	11		Bals	am Fir	Low	Variable	Sapling	characteristics but there is also a steep ridgeline south of the river that is
	Red Maple	2	Log/Pole	10		White	Spruce	Medium	Variable	Sapling	dominated by red and white pine. Cedar tends to be found directly
	Quaking Aspen	21	Log/Pole	14		Black	Cherry	Low	Variable	Tall Shrub	adjacent to the riverbank, with some large diameter trees present (one I measured was 27" DBH). Some areas of blowdown and lower stocking
	Paper Birch	1	Pole/Log	8		Tag	Alder	Medium	Variable	Tall Shruk	throughout the stand. Trace of willow and red oak in the overstory.
	Red Pine	7	Log/Pole/XLog	12							Average ba/acre from 9 plots = 95 square feet. No management due to
	Balsam Poplar	4	Pole/Log	9							proximity to the Pigeon River.
No	orthern White Cedar	5	Log/Pole	12							
	White Spruce	36	Log/Pole/XLog	10	83						



Stand	Level 4 C	over Type	s	ize De	ensity	Acres	Stand Age B	A Range	Managed Site		General Comments
74	2113 - Fo	orage Crop	s	Nonst	ocked	5.7	Uı	nspecified	Managed O	pening	Maintained wildlife opening. Some areas along the edge that aren't planted.
						Sub-Can	opy Species	Density	Avg. Height	Size	pianteu.
						Jac	k Pine	Trace	Variable	Sapling	
						Blac	k Cherry	Trace	Variable	Tall Shrub	
						White	e Spruce	Trace	Variable	Sapling	
						Re	d Pine	Trace	< 5 feet	Seeding	
						A	Alder	Trace	10 - 20 feet	Tall Shrub	
						White	e Spruce	Trace	< 5 feet	Seeding	
						Wh	te Pine	Trace	< 5 feet	Seeding	
75	4133 - Aspe	en, Mixed F	Pine Po	letimb	er Wel	l 10.2	44	81-110	N/A		This stand was clearcut in 1978 by Champion. Aspen regenerated well
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	along with a significant component of pine. The white pine tends to be more numerous along the northern edge of the stand. Quaking aspen is
	Bigtooth Aspen	35	Pole	7	44	Iro	nwood	Trace	Variable	Sapling	more common in the west half, while bigtooth is dominant in the east half.
	Quaking Aspen	25	Pole/Sapling	6		Serviceber	ry (Juneberry)	Trace	Variable	Tall Shrub	Aspen quality is not great and diameters are quite small for its age. Red
	White Pine	23	Pole	7		Wh	te Pine	Medium	Variable	Sapling	pine and jack pine are mostly in the far west/northwest part of the stand. Red oak regenerated following the harvest, and like the white pine, is
	Red Pine	7	Pole	8		Blac	k Cherry	Medium	Variable	Tall Shrub	more prevalent along the northern stand edge. Average ba/acre from 8
	Jack Pine	3	Pole	7		Red	d Maple	Trace	>20 feet	Sapling	plots = 105 square feet. The east half of the stand is on a southwest
	Red Oak	3	Pole/Log	8		Bals	sam Fir	Trace	Variable	Sapling	facing slope. This stand needs at least another 10 years before it is ready for a harvest.
	White Spruce	1	Pole	6		White	e Spruce	Trace	Variable	Sapling	Tor a narvest.
	Red Maple	2	Sapling/Pole	4			-		ı	-	
	Balsam Fir	1	Pole	5							
76	42110 - Pla	inted Red F	Pine Sa	wtimb	er Poo	r 32.5	78	1-50	N/A		08/17/2015 - Shelterwood harvest completed in fall of 2014. Red Line
	Canopy Species	% Cover	Size Class	DRI	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	Nightmare, bought by Biewer, #53-009-13-01. Whole-tree skidding didn't
	Red Pine	96	Log/Pole	12			d Pine	Low	< 5 feet	Seeding	take place but tops were skidded with grapple skidders. Not sure if this resulted in sufficient scarification though. Res ba/acre = 30 sq
	White Pine	2	Pole/Log	9			k Pine	Low	10 - 20 feet	Sapling	ft.2021 - Regen survey indicated good natural pine regen, although
	Red Oak	2	Pole/Log	9		Re	d Pine	Low	< 5 feet	Sapling	not as good as other seed trees in the area, and the decision was made
							te Pine	Low	Variable	Sapling	to remove the overstory red pine due to Diploidia concerns. Chapter 7 variance approved. Regen survey results (avg height in parentheses): red
										1 3	pine 731 TPA (6"), white pine 269 TPA (1'), black cherry 177 TPA (2'), jack pine 8 TPA (2'), beech 8 TPA (3').
77	4319 - Mixed	d Upland Fo	orest Sa	awtimb	er Wel	l 5.2	78	81-110	N/A		Mixed species stand of moderate quality. The east half of the stand has most of the oak, which is open grown and has some very large diameter
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	trees. A nice pine understory can be found in areas underneath the oak.
	White Spruce	3	Pole/Log	8		Bals	sam Fir	Low	Variable	Sapling	The west half of the stand has more of the red maple along with
	Balsam Fir	1	Pole	6		Blac	k Cherry	Low	Variable Tall Shrub		scattered clumps of pine. A couple of small clones of quaking aspen are
	Bigtooth Aspen	2	Pole/Log	8		Serviceber	ry (Juneberry)	Trace	Variable Tall Shrub		present but not common throughout. A few white pine legacy trees are present. Average ba/acre from 5 plots = 102 square feet. Most of this
	White Pine	25	Log/Pole/XLog	11	78	White	e Spruce	Trace	Variable	Sapling	stand slopes down to the north and west.
	Red Oak	13	Log/XLog	15		Red	l Maple	Low	Variable	Sapling	
	Quaking Aspen	12	Pole	8		Wh	te Pine	Medium	Variable	Sapling	
	Red Pine	21	Log/XLog/Pole	14	101						
	Red Maple	23	Pole/Log	8							

Conline Medium

Report 7 - Stands



EPARTME	DNR	
OEP	MICHIGAN	

Stand	Level 4 Cover Type	Size Density	Acres Stand Age BA Range	Managed Site	General Comments

78	429 - Mixed U	lpland Co	nifers	Poletin	nber We	ll 2.3	55	81-110	N/A	
	Canopy Species	% Cove	r Size Class	DE	BH Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size
	White Pine	27	Pole/Log/XLo	og 9		Ва	lsam Fir	Low	Variable	Sapling
	Jack Pine	3	Pole	7		Blac	ck Cherry	Low	Variable	Tall Shrub
	Balsam Fir	9	Pole	6		Servicebe	erry (Junebe	rry) Trace	Variable	Tall Shrub
	Red Pine	1	Log	13	3	WI	nite Pine	Medium	Variable	Sapling
	Quaking Aspen	29	Pole/Log	8		Whi	te Spruce	Medium	Variable	Sapling
	White Spruce	31	Pole/Loa	8	55			'	•	,

Mixed species stand with a variety of sizes present, although poletimber stems are most common. Stocking is somewhat erratic as there are a few open areas in the middle of the stand. A few open grown legacy size white pine. Areas of dense spruce and fir in the understory. Mostly an upland stand although the stand transitions to wetter ground to the north, west, and south. Average ba/acre from 5 plots = 104 square feet.

Compartment: 34

Year of Entry: 2024

79	42110 - Piai	Pine S	Sawtimber Wei			
	Canopy Species	% Cov	er Size Class	DBH A		
	White Pine	8	Log/Pole/XLog	10		
	Red Pine	73	Log/XLog/Pole	14	85	
	Red Oak	19	Log/Pole/XLog	12		
			•			

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ell	6.6	85	11	11-140		N/A	
•	Sub-Can	opy Specie	s	Density	Avg	. Height	Size
	В	eech		Trace	V	ariable	Sapling
	Whi	te Pine		Full	V	ariable	Sapling
	Red	d Pine		Trace	>2	20 feet	Sapling
	Black	Cherry		Low	5 -	10 feet	Tall Shrub

Moderate to high quality red pine stand with some large diameter stems and a significant component of oak. Highly variable stocking due to a past species removal harvest in 1995 which took out all jack pine, aspen, and maple. As a result of that harvest and with the large component of oak mixed in, this stand does not resemble a plantation. The oak is moderate to poor quality although several of the larger stems have better quality. There are a few large diameter, old natural red pine mixed in. A couple legacy size white pine are present as well. Average ba/acre from 5 plots = 128 square feet. Per the Concept of Management, this stand should be managed with big-tree silviculture in mind and using unevenaged techniques to promote a stand of large trees and diverse vertical structure.

80	42290 - Natur	42290 - Natural Mixeu i lile										
	Canopy Species	% Cove	er Size Class	DBH	Age							
	Red Pine	16	Sapling	3								
	Jack Pine	47	Sapling/Pole	4	27							
	Red Pine	10	Log/XLog	14	101							
	White Pine	25	Sapling/Pole/Log	4								
	Red Oak	1	Log/Pole	12								
	Bigtooth Aspen	1	Sapling/Pole	4								

42200 Notural Mixed Dina

n	65.0 27			mature	N	N/A		
	Sub-Can	ору Ѕрес	ies	Density	Avg. Heigh	t	Size	
	Black	Cherry		Trace	Variable		Tall Shrub	

This stand was initially harvested in 1995 in the sale Section 9 Block (#53-013-94, Georgia Pacific), where everything was cut except for red pine, white pine, and oak. The majority of overstory red pine were then removed in 2007 in the sale Whip-poor-will Red Pine (#53-017-04, Bisballe). Mixed pine regenerated very well following the initial species removal harvest in 1995, typical of Georgia Pacific sales which were whole-tree operations that created a lot of ground scarification. Jack pine is the dominant species that regenerated, although pockets heavier to white pine and/or red pine are also present throughout the stand. However, there are also numerous open areas lacking in regeneration, which appear to be a result of equipment operations from the overstory removal in 2007. Residual red and white pine are scattered throughout the stand and present in all size classes (pole/log/xlog), which makes typing this stand out somewhat difficult. Trace of red maple poletimber. The dominant age class of younger saplings should be approaching merchantability by next entry which will allow for BA swings to be taken and will give a more accurate representation of the species mix.

Pigeon River Country Mgt. Unit

Compartment: 34



	J	, ,									Year of Entry: 2024
tand	Level 4 C	over Type	5	Size De	nsity	Acres	Stand Age B	A Range	Managed 9	Site	General Comments
81 4130 - Aspen Canopy Species % Cover Si		- Aspen	P	oletimb	er Well	2.1	37	51-80	N/A		Developing aspen stand that was clearcut in 1987 by K&R Logging.
		Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Diameters are still quite small in most areas of the stand. The far southwest corner of the stand is a clump of larger jack pine that is most	
	Quaking Aspen	71	Pole/Sapling	6	37	Bla	ck Cherry	Medium	Variable	Tall Shrub	
	Bigtooth Aspen	7	Pole	7		Wh	ite Spruce	Trace	Variable	Sapling	edge adjacent to the powerline. Trace of red oak poletimber. Average
	White Pine	11	Pole/Log	8		W	hite Pine	Medium	Variable	Sapling	ba/acre from 4 plots = 68 square feet. This stand will need at least another 10 years of growth before a treatment can be prescribed.
	Jack Pine	3	Pole	8		Ва	alsam Fir	Trace	Variable	Sapling	another to years of grown before a treatment can be prescribed.
	Red Pine	1	Log/XLog	15		Serviceb	erry (Juneberry)	Low	Variable	Tall Shrub	
	Red Maple	4	Pole/Sapling	5		Haw	horn (spp.)	Trace	5 - 10 feet	Tall Shrub	
	Balsam Fir	2	Pole	6		Re	ed Maple	Low	Variable		
	White Spruce	1	Pole	6				-			
32	3302 - Low Der	nsity Conife	Trees	Nonsto	cked	1.8	Uı	nspecified	No		Open stand that is filling in with conifers. Not sure of the history of this
						Sub-Ca	nopy Species	Density	Avg. Height	Size	stand but this almost looks like a previous maintained opening. Mostl dry ground.
						Bla	ck Cherry	Medium	Variable	Tall Shrub	
						Serviceb	erry (Juneberry)	Trace	Variable	Tall Shrub	
						R	ed Pine	Trace	>20 feet	Pole	
						Wh	ite Spruce	Trace	>20 feet	Pole	
						D	od Dino	Troop	Variable	Conling	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Medium	Variable	Tall Shrub
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub
Red Pine	Trace	>20 feet	Pole
White Spruce	Trace	>20 feet	Pole
Red Pine	Trace	Variable	Sapling
Cladonia (Reindeer moss)	Trace	Unspecified	Non-Wood
Mixed Grasses	Full	Unspecified	Non-Wood
White Pine	Medium	Variable	Sapling
White Spruce	Medium	Variable	Sapling
White Pine	Trace	>20 feet	Pole
Jack Pine	Trace	Variable	Sapling

Low

Bigtooth Aspen Red Maple

Serviceberry (Juneberry)

Quaking Aspen

Quaking Aspen

Supercanopy of massive red oak with a dense understory of mostly white pine and red maple, with smaller amounts of aspen. The oak is generally open-grown and poor quality, but has many trees over 20" DBH. A couple of log-sized red and white pine are present. This stand was cut at the same time as adjacent stands 81, 87, and 137. Trace of balsam fir and jack pine poletimber in the overstory. Average ba/acre from 3 plots = 87 square feet. This stand sits on an elevated knob and slopes down along the east and west edges. Let the white pine continue to grow and manage for that in the future.

83	4123 - R	Sa	wtimb	er Well	2.0	84	51-80	
	Canopy Species % Cover S		Size Class	ize Class DBH Age		Sub-Can	opy Species	Density
	White Pine	15	Pole/Sap/Log	8		Bigtoo	oth Aspen	Low
	Bigtooth Aspen	6	Pole/Sapling	5		Whi	te Pine	High
	Red Pine	5	Log/Pole	10		Bals	sam Fir	Trace
	Quaking Aspen	2	Pole/Sapling	5		Witc	h Hazel	Trace
	Red Oak	72	Log/XLog	16	84	White	Spruce	Trace
						Whi	te Pine	Low
						Black	c Cherry	Trace
						Red	l Maple	Medium

Sapling >20 feet Sapling Variable Sapling Variable 5 - 10 feet Tall Shrub Variable Sapling >20 feet Pole Variable Tall Shrub >20 feet Sapling Trace >20 feet Pole Trace >20 feet Pole Trace Variable Tall Shrub Trace >20 feet Pole

>20 feet

N/A

Size

Sapling

Avg. Height

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Stan	d Level 4 C	over Type	s	ize De	ensity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments
84	6112 - Lo	wland Aspe	n Po	oletimb	er Well	10.3	44	51-80	N/A		Lowland stand dominated by quaking aspen. Clearcut in 1978 by
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Champion. The eastern 2/3rds of the stand is nearly 100% aspen and BAM, with an area of very wet ground in the middle that extends east and
	Balsam Fir	2	Pole	6		Blad	ck Cherry	Medium	Variable	Tall Shrub	forms a drainage flowing southeast out of the stand (see site conditions
	Balsam Poplar	5	Pole	7		Na	nnyberry	Low	10 - 20 feet	Tall Shrub	layer) that eventually joins with the Pigeon River. The western 1/3rd of
	White Spruce	5	Pole/Log	8		Whi	te Spruce	Trace	Variable	Sapling	the stand is slightly drier ground and has spruce and fir mixed in. Diameters on the aspen vary considerably throughout the stand, wetter
	Quaking Aspen	88	Pole/Sap/Log	7	44	Servicebe	erry (Juneberry)	Trace	Variable	Tall Shrub	areas tend to have larger diameters. A diverse shrub layer is present in
				-		Hawt	horn (spp.)	Trace	5 - 10 feet	Tall Shrub	many places. Trace of white pine and elm, although most elm appear to
						Та	ig Alder	High	10 - 20 feet	Tall Shrub	be dead. Average ba/acre from 7 plots = 73 square feet. The western portion of the stand is operable ground but the remainder of the stand,
85	42220 - Nat				er Well		40	51-80	N/A		particularly the drainage area, should be excluded from any harvest. Small stand of decent quality jack pine. Red pine is mostly along the edges. There has been small amounts of blowdown in the middle of the
	Canopy Species		Size Class		I Age		nopy Species	Density	Avg. Height	Size	stand. Average ba/acre from 4 plots = 63 square feet. Still a lot of small
	White Pine	6	Pole	7			ed Pine	Trace	Variable	Sapling	stems.
	Jack Pine	87	Pole/Sapling	6	40		nite Pine	Low	Variable	Sapling	
	Red Pine	7	Log/Pole	13		Blad	ck Cherry	Trace	Variable	Tall Shrub	
86	320 - Up	land Shrub	I	Nonsto	ocked	1.3	U	nspecified	No		This stand sits in a bowl surrounded by moderately steep slopes on all
						Sub-Ca	nopy Species	Density	Avg. Height	Size	sides. Previous inventory notes indicate this was an old Tordon opening. Possible frost pocket as well.
						Ja	ck Pine	Low	Variable	Sapling	
						Mixe	d Grasses	High	Unspecified	Non-Wood	
						Sw	eet Fern	Medium	< 5 feet	Tall Shrub	
						R	ed Pine	Trace	>20 feet	Pole	
						Blad	ck Cherry	Medium	Variable	Tall Shrub	
						Ja	ck Pine	Low	>20 feet	Pole	
						Brad	ken Fern	Medium	Unspecified	Non-Wood	
						Cladonia (Reindeer moss) Medium	Unspecified	Non-Wood	
						Wł	nite Pine	Trace	Variable	Sapling	
						Wh	nite Pine	Low	>20 feet	Pole	
87	4130	- Aspen	Po	oletimb	er Well	3.5	37	81-110	N/A		Nice developing aspen stand that is adjacent to the PRC office complex. Clearcut in 1987 by K&R Logging. A couple of residual pine and fir stems
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	were left but not many. A thin strip of larger trees is present along the
	Balsam Fir	11	Pole/Log	8			lsam Fir	Low	Variable	Sapling	east edge. Some areas of the stand with a nice serviceberry component
	White Spruce	2	Pole	8			ck Cherry	Medium	Variable	Tall Shrub	in the understory. Average ba/acre from 5 plots =104 square feet. The stand sits on a slight east facing slope. This stand will be ready for a final
	Red Maple	8	Pole/Sapling	5			te Spruce	Trace	Variable	Sapling	harvest in 10 years.
	Quaking Aspen	73	Pole/Sapling	7	37	Servicebe	erry (Juneberry)	Low	Variable	Tall Shrub	
	Red Oak	1	Log	11		Re	d Maple	Medium	>20 feet	Sapling	
	Red Pine	1	Log	14		Wh	nite Pine	Trace	Variable	Sapling	
	White Pine	4	Pole/Log	9				<u></u>	<u> </u>		



Stand	d Level 4 C	over Type	s	ize De	ensity	Acres	Stand Age B	A Range	Managed 9	Site	General Comments
88	4311 - Pin	e, Aspen M	ix Po	oletimber Well		11.5	35	111-140	N/A		A 2-aged mix of aspen and pine. This stand was clearcut in 1987 (Ford Lake Aspen, K&R Logging, #53-016-84) but it looks like pockets of
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	advanced pine regeneration were protected during the harvest. Steeper
	Jack Pine	5	Pole/Sapling	6		Blad	ck Cherry	Low	Variable	Sapling	slopes bordering the opening (stand 86) as well as along the southern
	Quaking Aspen	4	Pole/Sapling	5							stand edge were not harvested either and also contain mostly pine. The
	Red Pine	13	Log/Pole	12							white pine is pretty good quality but still mostly small diameter. The aspen is just approaching merchantability in most places. Trace of red
	Bigtooth Aspen	39	Pole/Sapling	5	35						oak and white spruce in the overstory. Average ba/acre from 7 plots =
	White Pine	38	Pole/Sap/Log	7	57						129 square feet. Manage for white pine when the stand is ready for a
	Red Maple	1	Pole/Sapling	6							treatment.
89	42290 - Nati	ural Mixed F	Pine Pole	timbe	r Mediu	m 11.7	35	51-80	N/A		This stand was clearcut in 1987 in the sale Ford Lake Aspen (K&R
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Logging, #53-016-84). Old inventory notes state that aspen initially regenerated well but elk browse was severe and eliminated a large
	Jack Pine	20	Pole/Sap/Log	6		Blad	ck Cherry	Medium	Variable	Tall Shrub	proportion of it. All 3 species of pine have regenerated in the stand, albeit
	Quaking Aspen	2	Pole/Sapling	5		Ja	ck Pine	Low	Variable	Sapling	not well-stocked in all places, with white pine being the most abundant.
	Red Pine	19	Log/Pole/Sap	10		Re	d Maple	Trace	>20 feet	Sapling	Some residual pine of various sizes were left, both individually and in clumps, with the greatest amount being in the large poletimber/small
	Red Maple	2	Pole/Sapling	5		Wł	nite Pine	Medium	Variable	Sapling	sawlog size classes. The far southern end of the stand did not regenerate
	White Pine	36	Pole/Sap/Log	5	35	R	ed Pine	Low	Variable	Sapling	well other than some bushy pine and unhealthy quaking aspen, and
	Bigtooth Aspen	21	Pole/Sapling	5				1			resembles more of a U type. Trace of red oak in the stand. Average ba/acre from 8 plots = 56 square feet. Manage for pine, although it will be many years before this stand is ready for a treatment.
90	42290 - Nati	ural Mixed F	Pine S	Sapling Poor		15.5	27	51-80	N/A		This stand had a species removal in 1995 in the sale Section 9 Pine
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Block (Georgia Pacific, #53-013-94) where everything was cut except for red pine, white pine, and oak. Jack pine regenerated moderately well
	Red Pine	21	Log/XLog	15	101	Blad	ck Cherry	Low	Variable	Tall Shrub	
	Red Pine	5	Sapling	3							and cut in 2007 in the sale Whip-poor-will Red Pine (Bisballe, #53-017-
	Jack Pine	56	Sapling/Pole	4	27						04). Quite a few red pine were marked to leave during the overstory removal, averaging about 20 square feet per acre, although they tend to
	White Pine	18	Pole/Log/Sap	7							occur in clumps of 2-4 trees. It looks to me like a lot of the jack pine
											regeneration was destroyed during the overstory removal as there are "skid lanes" throughout with minimal or no regeneration. The follow-up treatment after the overstory removal was to scarify the stand but it doesn't appear that happened based on the jack pine regen that is still standing. Trace of bigtooth aspen and red maple saplings. The Shingle Mill Pathway runs east-west through the middle of the stand. No treatment will be possible in this stand until the jack pine matures. Consider clearcutting the entire stand next entry and re-planting back to

red pine.



Stanc	Level 4 C	over Type	S	Size Density		Acres Stand Age B	A Range	Managed	Site	General Comments			
91	320 - Up	land Shrub		Nonsto	cked	1.2 U	nspecified	No		This is essentially the backyard of the Pigeon River Field Office. Clump			
						Sub-Canopy Species	Density	Avg. Height	Size	of invasive honeysuckle can be found throughout this stand as well as a clump of garlic mustard in the middle part of the stand near the slope the			
						Balsam Poplar	Trace	Variable	Sapling	leads down to the Pigeon River. The garlic mustard has been pulled a			
						Jack Pine	Trace	>20 feet	Pole	few times but the honeysuckle has not been treated.			
						White Pine	Trace	>20 feet	Log				
						Garlic Mustard	Trace	Unspecified	Non-Wood				
						Serviceberry (Juneberry)	Trace	Variable	Tall Shrub				
						Black Cherry	Low	Variable	Tall Shrub				
						mooth Tartarian Honeysud	ckl Medium	Variable	Tall Shrub				
						Paper Birch	Trace	>20 feet	Pole				
						Balsam Fir	Trace	>20 feet	Pole				
						Sweet Fern	Low	< 5 feet	Tall Shrub				
						Mixed Grasses	Full	Unspecified	Non-Wood				
						White Pine	Low	Variable	Sapling				
						Red Pine	Trace	>20 feet	Log				
									Quaking Aspen	Low	>20 feet	Pole	
92	42260 - Natural Pi	ne, Mixed [Deciduous S	Sapling	Poor	1.6 25	1-50	N/A		Former non-forested stand that is filling in with trees. BAM is filling in			
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Canopy Species	Density	Avg. Height	Size	along the north/northwest edge, while jack pine is filling in the northeast part of the stand. The southwest part of the stand is still non-forested by			
	Red Pine	5	Pole/Sapling	6		White Spruce	Low	< 5 feet	Seeding	conifers are seeding in. Not sure of the past history of this stand, perha			
	Balsam Poplar	35	Sapling/Pole	4		Black Cherry	Medium	Variable	Tall Shrub	it was a small maintained opening long ago.			
	Jack Pine	45	Pole/Sapling	5	25	White Pine	Low	< 5 feet	Seeding				
	White Pine	15	Sapling/Pole	4		Red Pine	Low	< 5 feet	Seeding				
		To Caping/Tole		3 s.p		Balsam Poplar	Low	5 - 10 feet	Sapling				
93	42290 - Natu	ural Mixed F	Pine Sa	awtimb	er Wel	I 3.2 71	51-80	N/A		Jack pine dominated stand that borders the Pigeon River and sits on			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	ground that appears mostly dry. A few areas of wet ground are present along the edges. The jack pine is decent quality but somewhat open-			
	White Spruce	8	Log/Pole	11		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub	grown. Quite a bit of jack pine mortality in the north half of the stand. No			
	Red Pine	4	Log/XLog	15		Balsam Poplar	Low	Variable	Sapling	sure of the history of this stand but I have to believe that the jack pine			
	Black Cherry	2	Pole	8		White Spruce	Low	Variable	Sapling	were planted here long ago? Trace of BAM in the overstory. Average ba/acre from 6 plots = 70 square feet. There are two small carved out			
	Jack Pine	55	Log/Pole	10	71	White Pine	Low	Variable	Sapling	"channels" that pass north/northwest through the stand. There are sign			
	140.0	14	Pole/Log/XLog	8		Serviceberry (Juneberry)	Medium	Variable	Tall Shrub	of old beaver damage throughout the stand so I'm guessing these			
	White Pine		Log/Pole			Serviceberry (Juneberry)	Trace	Variable	Tall Shrub	nnels were created by the beavers. No management due to the			
	White Pine Quaking Aspen	17	Log/Fole	10		Tag Alder	Hate						
		17	Log/Pole	10		Black Cherry	Medium	Variable	Tall Shrub	proximity to the Pigeon River.			
94			<u> </u>	10 Sapling	Poor			Variable N/A	Tall Shrub	This stand was used as a landing when adjacent stands had a species			
94	Quaking Aspen		ine S	Sapling	Poor Age	Black Cherry	Medium		Tall Shrub	This stand was used as a landing when adjacent stands had a species removal harvest in 1994. It has since filled in with pine except for the			
94	Quaking Aspen 42220 - Nat	tural Jack P	ine S	Sapling		Black Cherry 1.8 28	Medium 1-50	N/A		This stand was used as a landing when adjacent stands had a species removal harvest in 1994. It has since filled in with pine except for the north half which is non-forested and a popular camping spot. Steep			
94	Quaking Aspen 42220 - Nat Canopy Species	tural Jack F	ine Size Class	Sapling DBH		Black Cherry 1.8 28 Sub-Canopy Species	Medium 1-50 Density	N/A Avg. Height	Size	This stand was used as a landing when adjacent stands had a species removal harvest in 1994. It has since filled in with pine except for the north half which is non-forested and a popular camping spot. Steep			



Stand	Level 4 C	over Type	s S	ize De	nsity	Acres	Stand Age E	BA Range	Managed	Site	General Comments
95	6229 - Mixed	d lowland s	shrub I	Nonsto	cked	21.2	U	Inspecified	No		The Pigeon River flows through this stand.
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						N	linebark	High	5 - 10 feet	Tall Shrub	
						Mixe	d Grasses	High	Unspecified	Non-Wood	
						Wi	llow spp.	Trace	Variable	Tall Shrub	
						Bals	am Poplar	Trace	>20 feet	Log	
						5	Sedges	High	Unspecified	Non-Wood	
						Wi	llow spp.	Trace	>20 feet	Log	
						Ва	alsam Fir	Trace	>20 feet	Pole	
						Bals	am Poplar	Low	Variable	Sapling	
						merican Hi	ighbush Cranbe	err Trace	Variable	Tall Shrub	
						Bla	ck Cherry	Low	Variable	Tall Shrub	
						Bals	am Poplar	Low	>20 feet	Pole	
						Ва	alsam Fir	Trace	Variable	Sapling	
						Red Os	sier Dogwood	Trace	< 5 feet	Tall Shrub	
						Whi	ite Spruce	Trace	>20 feet	Log	
						Ta	ag Alder	High	10 - 20 feet	Tall Shrub	
						Northern	n White Cedar	Trace	>20 feet	Log	
						Na	nnyberry	Low	Variable	Tall Shrub	
96	42110 - Pla	nted Red F	Pine Sa	awtimb	er Wel	l 12.8	101	111-140	N/A		High quality red pine stand with some large diameter trees. The only
	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	harvest in the stand was a species removal harvest in 1994 (Section 9 Pine Block, #53-013-94, Georgia Pacific), where everything was cut
	Red Pine	93	Log/Pole/XLog	13	101	W	hite Pine	High	Variable	Sapling	except for red pine, white pine, or red oak. There must not have been
	Red Maple	1	Pole	7			Beech	Low	Variable	Sapling	many other species in the stand as most areas look like a standard red
	White Pine	4	Log/XLog/Pole	17		Re	ed Maple	Trace	>20 feet	Sapling	pine plantation. The exception is the middle part of the stand where BAs are lower and gaps created from the harvest have filled in with dense
	Red Oak	2	Log/Pole	14		R	led Oak	Trace	>20 feet	Sapling	white pine regeneration. Some very large legacy white pine are scattered
						Bla	ck Cherry	Trace	Variable	Tall Shrub	
											poletimber. There is one red maple sawlog-sized tree in the southwest part of the stand. Flat terrain. Average ba/acre from 9 plots = 140 square feet.
97		owland Pin			er Wel		30	81-110	N/A		This stand is a forested leatherleaf bog in a sinkhole-like depression. There used to be a lot more jack pine in the stand but most has now died.
	Canopy Species		r Size Class	_	Age		nopy Species		Avg. Height	Size	Trace of red maple. Average ba/acre from 3 plots = 90 square feet.
	Paper Birch	1	Pole	6			hite Pine	Medium	Variable	Sapling	
	Red Pine	15	Pole/Log	8		Le	atherleaf	High	< 5 feet	Tall Shrub	
	White Pine	82	Pole/Sap/Log	6	30						
	Jack Pine	2	Pole	7							



Stand	d Level 4.C	over Type		ize De	neitv	Acres	Stand Age B	A Range	Managed S	Sita	Year of Entry: 2024 General Comments		
98	42220 - Natural Jack Pine			Poletimber Well		1.3	56	51-80	N/A		Small stand of decent quality jack pine. Trace of white spruce poletimber.		
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Average ba/acre from 3 plots = 57 square feet. Some trees have been cut down at the north end, presumably used as firewood for the adjacen		
	Quaking Aspen	2	Pole	8			k Cherry	Trace	Variable	Tall Shrub			
	White Pine	12	Pole/Log	8		Wh	ite Pine	Low	Variable	Sapling			
	Red Pine	10	Log	14					1		1		
	Jack Pine	76	Pole/Log	8	56								
99	42290 - Nati				er Poor	24.5	84	1-50	N/A		Mixed red and white pine overstory of varying stocking and diameters. This is largely a result of a species removal harvest in 1997 (Ford Lake		
	Canopy Species		r Size Class		l Age		nopy Species	Density	Avg. Height	Size	Pine Block, #53-015-94, Georgia Pacific) where everything was cut		
	White Pine	47	Log/Pole	12	84		oth Aspen	Trace	>20 feet	Sapling	except for red pine, white pine, and oak. Much of the remaining red pine		
	Red Pine	41	Log/XLog/Pole	14			k Cherry	Low	Variable	Tall Shrub	was then removed in an overstory removal harvest in 2006 (Skull and No Bones Red Pine, #53-016-04, Bisballe), however there still remains about		
	Jack Pine	10	Pole/Sapling	5	25		ite Pine	Medium	Variable	Sapling	15 square feet of red pine residual, usually occurring in clumps of 2-3		
	Red Oak	2	XLog/Log	20		Jac	ck Pine	High	Variable	Sapling	trees. Regeneration came back well to jack pine in the initial overstory		
						Re	ed Pine	Medium	Variable	Sapling	removal but there are also some areas with a good red pine component. Some areas of the jack pine regen, particularly in the central part of the		
											stand, are approaching merchantability. A few small clumps of bigtooth aspen are present at the south end. There are a few massive red oak at the north end of the stand, including a 43" tree. Average ba/acre of the stand from 8 plots = 44 square feet. Retain the overstory and do not manage until the younger regeneration has matured. The younger age class can probably be featured in the overstory next entry, making this a J5 or MC5.		
100	320 - Up	320 - Upland Shrub		Nonst	ocked	2.8		nspecified	No		The southwest end of this stand is a popular dispersed camping area. The previous stand examiner called this site the "Infamous Clark Oliver"		
					-		nopy Species	Density	Avg. Height	Size	Camp", not sure what that refers to.		
						Blac	k Cherry	High		Sapling			

Serviceberry (Juneberry) Variable Tall Shrub Trace Jack Pine Low Variable Sapling Jack Pine Low >20 feet Pole Sapling White Pine Low Variable Black Cherry Medium Variable Tall Shrub Quaking Aspen Trace >20 feet Pole Bracken Fern Medium Unspecified Non-Wood White Pine Trace >20 feet Pole Unspecified Spotted Knapweed Non-Wood Trace

Trace

Full

Trace

High

Trace

>20 feet

Unspecified

>20 feet

< 5 feet

>20 feet

Pole

Non-Wood

Pole

Tall Shrub

Sapling

Red Oak

Mixed Grasses

Bigtooth Aspen

Sweet Fern

Red Oak



Stand	Level 4 C	over Type	S	Size De	nsity	Acres	Stand Age E	A Range	Managed \$	Site	General Comments	
101	6112 - Lo	wland Aspe	en Po	oletimb	er Wel	l 17.1	44	81-110	N/A		Moderate quality aspen stand that is primarily lowland but has some	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	upland ground in the northern 1/3rd of the stand. It was last clearcut in 1978 by Champion. Most of the stand regenerated to aspen although	
	Jack Pine	2	Pole	7		Re	d Maple	Trace	Variable	Sapling	stocking is not very high in many places. Diameters on the aspen tend to	
	White Spruce	4	Pole/Sapling	6		Whit	te Spruce	Low	Variable	Sapling	vary quite a bit, with some areas barely over merchantability. A few areas are heavier to fir and spruce, mostly on the west edge and at the south end. The central part of the stand becomes very wet, with heavily	
	Balsam Fir	3	Pole/Sapling	5		Та	ıg Alder	High	10 - 20 feet	Tall Shrub		
(Quaking Aspen	77	Pole/Sapling	7	44	Hawtl	horn (spp.)	Trace	5 - 10 feet	Tall Shrub	browsed red osier dogwood at the ground level. A diverse shrub layer is	
	Bigtooth Aspen	8	Pole/Sapling	7		Servicebe	rry (Juneberry	Medium	Variable	Tall Shrub	present throughout much of the stand. Old rutting damage is still evident	
	Red Pine	1	Log	14		Wh	nite Pine	Low	Variable	Sapling	in some places. Browse noted on fir and white pine saplings at the south end of the stand. Average ba/acre from 9 plots = 84 square feet. This	
	Red Maple	2	Pole/Sapling	5		Naı	nnyberry	Medium	10 - 20 feet	Tall Shrub	stand would benefit from ten more years of growth before harvesting as	
	White Pine	3	Pole/Sap/Log	6		Ja	ck Pine	Trace	Variable	Sapling	there are still a lot of small diameter trees in the stand.	
					,	Blac	ck Cherry	Medium	Variable	Tall Shrub		
						Ва	Isam Fir	Low	Variable	Sapling		
102	4133 - Asp	en, Mixed P	ine Pole	etimber	Mediu	ım 1.4	35	51-80	N/A		Poor quality aspen stand that is not well-stocked. Various sizes of aspen	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	and jack pine are present, but poletimber and saplings are most prevalent. Most of the merchantable aspen looks unhealthy. Not sure of	
	Red Oak	1	Log	14		Ja	ck Pine	Trace	Variable	Sapling	the harvest history of this stand, neither was the previous stand	
	White Pine	20	Pole/Sapling	6		Servicebe	rry (Juneberry	Low	Variable	Tall Shrub	examiner. This was likely just a poorly-stocked stand that filled in with	
	Red Pine	3	Log/Pole	12		Blac	ck Cherry	High	Variable	Tall Shrub	additional trees over time. Clump of red maple sawlog trees at the north end. Average ba/acre from 2 plots = 66 square feet. Heavy shrub	
	Jack Pine	15	Pole/Sapling	6		Wh	nite Pine	Low	Variable	Sapling	understory that is mostly cherry although there is a nice component of	
	Quaking Aspen	61	Pole/Sap/Log	7	35	•					serviceberry in some places.	
103	42110 - Pla	anted Red P	rine S	awtimb	er Wel	l 49.8	94	81-110	N/A		-Highly variable stocking throughout this stand. Previous harvest removed	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	all jack pine, red maple, and aspen. Gaps created through previous harvest are filling in nicely with all three species of native pine.	
	White Pine	2	Log/XLog	15		Re	ed Pine	Low	< 5 feet	Sapling	-A few natural XL-sized red pine are scattered throughout, measured	
	Red Pine	98	Log/Pole	12	94	Ja	ck Pine	Trace	5 - 10 feet	Sapling	some in the 24-27" DBH range.	
					,	Wh	nite Pine	High	Variable	Sapling	-Other species that were present but rare included jack pine and red oak. Understory species primarily included wintergreen, moss, and blueberry.	
						Re	d Maple	Trace	>20 feet	Sapling	Sweetfern, beech, and witch hazel were rare in the understory.	
						Re	ed Pine	Low	< 5 feet	Seeding	-20 basal area plots were taken with an average of 86 sq. ft. per acre.	
104	6139 - Mixed	Lowland F	orest Sav	vtimber	Mediu	m 3.3	55	51-80	N/A		A hodgepodge stand of varying composition that was not harvested when	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	adjacent stand 84 to the north was cut, due to its proximity to the Pigeon River. The western "bubble" of the stand is mostly good quality white	
(Quaking Aspen	42	Log/Pole	10	55	Ва	lsam Fir	Low	Variable	Sapling	spruce, both poletimber and sawtimber. The middle part of the stand is	
	Balsam Poplar	1	Pole	7		Servicebe	rry (Juneberry	Medium	Variable	Tall Shrub	mostly aspen, while the eastern bubble of the stand is a mix of spruce,	
	White Spruce	41	Pole/Log	8			ck Cherry	Medium	Variable	Tall Shrub	aspen, and some open grown white pine. Stocking is lower in the eastern part, with some patches of regen mixed in. The ground throughout the	
	White Pine	10	Log/Pole	11		Та	ıg Alder	Low	10 - 20 feet	Tall Shrub	stand is a mix of upland and lowland, it tends to be wetter in the northern	
	Balsam Fir	3	Pole	6		Naı	nnyberry	Trace	5 - 10 feet	Tall Shrub	parts of the stand and becomes drier as you get to the south edges of the	
	Red Pine	3	Log	13			te Spruce	Medium	Variable	Sapling	stand. Overall, I would say it's slightly more lowland than upland.	
							nite Pine	Low	Variable	Sapling	Excellent shrub diversity in the eastern 2/3rds of the stand. Average ba/acre from 5 plots = 68 square feet. No management due to the	
						L			I.	. 3	proximity to the Pigeon River.	



Stand	Level 4 C	over Type		Size De	ensity	Acres	Stand Age	BA Range	Managed :	Site	General Comments
105	6139 - Mixed	Lowland F	orest	Sawtimb	er Well	6.0	68	81-110	N/A		Mixed species stand that tends to alternate between aspen and clumps of
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	conifers. This stand is lowland from a landscape perspective as it borders the Pigeon River, however the ground does not appear to be overly wet in
	Red Pine	18	Log/XLog	14		Hawt	horn (spp.)	Trace	5 - 10 feet	Tall Shruk	all places. Old beaver sign in the middle part of the stand, newer beaver
	Jack Pine	5	Pole/Log	8		Ва	lsam Fir	Trace	Variable	Sapling	sign from this year at the north end of the stand. Scattered blowdown
	White Spruce	1	Pole/Log	8		Wh	nite Pine	Trace	Variable	Sapling	throughout. Found 1 white oak sapling. Nice shrub diversity in the stand. Average ba/acre from 4 plots = 97 square feet. No management due to
	Balsam Fir	1	Pole	6		Blad	ck Cherry	Medium	Variable	Tall Shrub	proximity to the Pigeon River.
	Balsam Poplar	12	Log/Pole	12		Servicebe	erry (Juneberry	y) Low	Variable	Tall Shrub	
	White Pine	18	Log/Pole	12		Balsa	am Poplar	Medium	Variable	Sapling	
	Quaking Aspen	45	Log	13	68	Та	ag Alder	Medium	10 - 20 feet	Tall Shruk	
106	42290 - Nati	ural Mixed	Pine :	Sapling	Medium	25.6	27	Immature	N/A	N/A	This stand had a species removal harvest in 1995 in the sale Section 9
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	Pine Block (#53-013-94), bought by Georgia Pacific. Everything was cut except for white pine, red pine, and oak. A subsequent red pine overstory
	Red Pine	11	Log/XLog	15	96	Blad	ck Cherry	Low	>20 feet	Tall Shrub	
	Red Pine	8	Sapling	3				'			Pine (#53-017-04), bought by Bisballe. The initial species removal was a
	Jack Pine	24	Sapling/Pole	3							whole-tree harvest and resulted in a lot of ground scarification which allowed for very successful mixed pine regeneration throughout most of
	White Pine	54	Sapling/Pole	3	27						the stand. The only areas that did not regenerate very well are the far
	Red Maple	2	Sapling	2							eastern end and the portion that is west of the north-south running open
	Red Oak	1	Log/XLog	15							road. Some of the skid trails from the overstory removal are still lacking regeneration too. White pine tends to be the dominant regeneration, jack
											pine is most common in the middle part of the stand which looks like an old landing. All sizes of white pine are present including some clumps of poletimber and sawtimber that look like residual stems. Some scattered large diameter red pine were left.
107	42110 - Pla	inted Red F	Pine	Sawtimb	er Well	1.1	101	111-140	N/A		Small stand of good quality red pine. Average ba/acre from 2 plots = 125
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	square feet. Found 2 white oak in the stand, 1 a sapling and 1 a poletimber stem. A wildfire ran through this stand sometime in the early
	Red Pine	86	Log/Pole	14	101	Blad	ck Cherry	High	5 - 10 feet	Tall Shruk	2000's, along with a portion of stand 108. Despite the scorch marks, all
	White Pine	12	XLog/Log/Pol	le 18							trees appear healthy and were not negatively impacted by the burn. A lot
	Red Maple	1	Pole	6							of cherry and serviceberry under 2 feet tall are being browsed heavily.
	White Oak	1	Pole	8							
108	42290 - Nati	ural Mixed	Pine	Sapling	Poor	8.7	27	1-50	N/A		This stand had a species removal harvest in 1995 (Section 9 Pine Block,
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	Georgia Pacific, #53-013-94) where everything was cut except red pine, white pine, and oak. This resulted in basically a clearcut as there are
	Red Pine	25	Log/XLog	15	101	R	ed Pine	Trace	< 5 feet	Seeding	minimal amounts of those three species in this stand. Large diameter red
	Red Oak	1	Log/XLog	16		Servicebe	erry (Juneberry	y) Low	Variable	Tall Shrub	pine are scattered throughout but only average roughly 18 square feet of
	Jack Pine	48	Sapling/Pole	9 4	27	Blad	ck Cherry	High	Variable	Tall Shrub	basal area. Regeneration was largely unsuccessful in the stand with the exception of some scattered clumps of jack and white pine, which are
	Red Pine	3	Sapling	2		Ja	nck Pine	Trace	< 5 feet	Seeding	now approaching merchantability. The remainder of the stand has large
	Quaking Aspen	3	Pole/Sapling	5							amounts of shrubby black cherry. The Shingle Mill Pathway passes east-
	White Pine	20	Sapling/Pole/L	.og 4							west through the southern end of the stand. South of the pathway appears to have been burned in a wildfire, along with adjacent stand 107

Compartment: 34 Year of Entry: 2024

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nd	Level 4 Cover Type		Si	ize De	risity	Acres Stand Age B.	Managed S		General Comments	
9	42290 - Natu	ıral Mixed F	Pine Sa	awtimber Well		I 17.4 96	81-110	N/A		Pine dominant stand that borders the Pigeon River and sits on
С	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	moderately steep slopes. Species composition tends to vary slightly as there are some areas with a higher component of aspen and red maple
	White Pine	30	Log/Pole/XLog	12		Red Maple	Trace	Variable	Sapling	mixed in. Jack pine used to be a larger component, particularly in the
	Red Pine	36	Log/Pole/XLog	13	96	Serviceberry (Juneberry)	Trace	Variable	Tall Shrub	southern 1/3rd of the stand, but the majority of it has died and has
V	White Spruce	1	Pole/Log	8		Balsam Fir	Trace	Variable	Sapling	succeeded to white pine. The base of the slope adjacent to the river becomes lowland with some spruce, fir, and trace amounts of cedar mixed in. Average ba/acre of the stand from 9 plots = 107 square feet.
	Red Oak	1	Log	15		White Spruce	Trace	Variable	Sapling	
	Red Maple	8	Pole/Log	8		Witch Hazel	Trace	5 - 10 feet	Tall Shrub	The Shingle Mill Pathway travels through the entire length of this stand
Qı	uaking Aspen	2	Log	12		White Pine	Medium	Variable	Sapling	and the Lovejoy Monument is located near the south end. No management due to the proximity to the river as well as the recreation
F	Paper Birch	3	Log/Pole	10		Red Oak	Trace	>20 feet	Sapling	influence.
	Jack Pine	6	Pole/Log	9		Black Cherry	Low	Variable	Tall Shrub	
Bi	igtooth Aspen	12	Log	12		Beech	Low	Variable	Sapling	
	Balsam Fir	1	Pole	6				1	-	
0	6111 - Lowland	d Balsam F	Poplar Pol		er Poo	r 7.8 62	1-50	N/A		-Other species that were present but rare included; red maple, paper
0			•							-Other species that were present but rare included; red maple, paper birch, white spruce, and willow.
0 C	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	birch, white spruce, and willowGood amount of large CWD in the stand due to ongoing windthrow.
0 C	Canopy Species Quaking Aspen	% Cover	Size Class Pole/Log	DB H		Sub-Canopy Species Nannyberry	Density Medium	Avg. Height Variable	Tall Shrub	birch, white spruce, and willowGood amount of large CWD in the stand due to ongoing windthrow.
0 C	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species Nannyberry Black Cherry	Density Medium Low	Avg. Height Variable Variable	Tall Shrub	birch, white spruce, and willowGood amount of large CWD in the stand due to ongoing windthrow.
0 C	Canopy Species Quaking Aspen	% Cover	Size Class Pole/Log	DB H	l Age	Sub-Canopy Species Nannyberry	Density Medium	Avg. Height Variable	Tall Shrub	birch, white spruce, and willowGood amount of large CWD in the stand due to ongoing windthrow.
0 C	Canopy Species Quaking Aspen	% Cover 60 40	Size Class Pole/Log Pole/Log/Sap	9 9	l Age	Sub-Canopy Species Nannyberry Black Cherry Tag Alder	Density Medium Low	Avg. Height Variable Variable	Tall Shrub	birch, white spruce, and willow. -Good amount of large CWD in the stand due to ongoing windthrow. Mostly a stand of poor-quality, open grown timber. Stocking is variable
0 C Qu Ba	Canopy Species Quaking Aspen Balsam Poplar	% Cover 60 40 ural Mixed F	Size Class Pole/Log Pole/Log/Sap	DBH 9 9	62	Sub-Canopy Species Nannyberry Black Cherry Tag Alder	Density Medium Low High	Avg. Height Variable Variable >20 feet	Tall Shrub	birch, white spruce, and willow. -Good amount of large CWD in the stand due to ongoing windthrow. Mostly a stand of poor-quality, open grown timber. Stocking is variable and clumpy in nature with open areas mixed in throughout. A small strip
0 C Qu Ba	Canopy Species Quaking Aspen Balsam Poplar 42290 - Natu	% Cover 60 40 ural Mixed F	Size Class Pole/Log Pole/Log/Sap Pine Polet	DBH 9 9	62 r Mediu	Sub-Canopy Species Nannyberry Black Cherry Tag Alder m 9.0 42	Density Medium Low High 51-80	Avg. Height Variable Variable >20 feet N/A	Tall Shrub Sapling Tall Shrub	birch, white spruce, and willow. -Good amount of large CWD in the stand due to ongoing windthrow. Mostly a stand of poor-quality, open grown timber. Stocking is variable
0 C Qu Ba	Canopy Species Quaking Aspen Balsam Poplar 42290 - Natu	% Cover 60 40 ural Mixed F	Size Class Pole/Log Pole/Log/Sap Pine Polet Size Class	DBH 9 9 9	62 r Mediu	Sub-Canopy Species Nannyberry Black Cherry Tag Alder m 9.0 42 Sub-Canopy Species	Density Medium Low High 51-80 Density	Avg. Height Variable Variable >20 feet N/A Avg. Height	Tall Shrub Sapling Tall Shrub Size	birch, white spruce, and willow. -Good amount of large CWD in the stand due to ongoing windthrow. Mostly a stand of poor-quality, open grown timber. Stocking is variable and clumpy in nature with open areas mixed in throughout. A small strip of trees adjacent to Twin Lakes Road was left uncut and has better stocking. No previous harvest records were found for this stand howeve old inventory records note that this stand was treated with Tordon in an
0 Qu Ва	Canopy Species Quaking Aspen Balsam Poplar 42290 - Natu Canopy Species Red Pine	% Cover 60 40 ural Mixed F % Cover 14	Size Class Pole/Log Pole/Log/Sap Pine Polet Size Class Log/XLog/Pole	DBH 9 9 timbel DBH	62 r Mediu	Sub-Canopy Species Nannyberry Black Cherry Tag Alder m 9.0 42 Sub-Canopy Species Red Pine	Density Medium Low High 51-80 Density Trace	Avg. Height Variable Variable >20 feet N/A Avg. Height Variable	Tall Shrub Sapling Tall Shrub Size Sapling	birch, white spruce, and willow. -Good amount of large CWD in the stand due to ongoing windthrow. Mostly a stand of poor-quality, open grown timber. Stocking is variable and clumpy in nature with open areas mixed in throughout. A small strip of trees adjacent to Twin Lakes Road was left uncut and has better stocking. No previous harvest records were found for this stand howeve old inventory records note that this stand was treated with Tordon in an effort to convert it to an opening. A diverse shrub component is present
0 Qu Ва	Canopy Species Duaking Aspen Balsam Poplar 42290 - Natu Canopy Species Red Pine Jack Pine	% Cover 60 40 ural Mixed F Cover 14 33	Size Class Pole/Log Pole/Log/Sap Pine Polet Size Class Log/XLog/Pole Pole/Log	9 9 9 timber 15 8	62 r Mediu	Sub-Canopy Species Nannyberry Black Cherry Tag Alder m 9.0 42 Sub-Canopy Species Red Pine Red Maple	Density Medium Low High 51-80 Density Trace Trace	Avg. Height Variable Variable >20 feet N/A Avg. Height Variable >20 feet	Size Sapling Sapling Size Sapling Sapling	birch, white spruce, and willow. -Good amount of large CWD in the stand due to ongoing windthrow. Mostly a stand of poor-quality, open grown timber. Stocking is variable and clumpy in nature with open areas mixed in throughout. A small strip of trees adjacent to Twin Lakes Road was left uncut and has better stocking. No previous harvest records were found for this stand howeve old inventory records note that this stand was treated with Tordon in an effort to convert it to an opening. A diverse shrub component is present places, including some nice clumps of hawthorn and serviceberry. Some
0 C Qu Ba	Canopy Species Quaking Aspen Balsam Poplar 42290 - Natu Canopy Species Red Pine Jack Pine Quaking Aspen	% Cover 60 40 ural Mixed F % Cover 14 33 4	Size Class Pole/Log Pole/Log/Sap Pine Polet Size Class Log/XLog/Pole Pole/Log Pole	9 9 timber 15 8 8	62 r Mediu	Sub-Canopy Species Nannyberry Black Cherry Tag Alder m 9.0 42 Sub-Canopy Species Red Pine Red Maple Serviceberry (Juneberry)	Density Medium Low High 51-80 Density Trace Trace Low	Avg. Height Variable Variable >20 feet N/A Avg. Height Variable >20 feet Variable	Size Sapling Sapling Size Sapling Sapling Sapling Tall Shrub	birch, white spruce, and willow. Good amount of large CWD in the stand due to ongoing windthrow. Mostly a stand of poor-quality, open grown timber. Stocking is variable and clumpy in nature with open areas mixed in throughout. A small strip of trees adjacent to Twin Lakes Road was left uncut and has better stocking. No previous harvest records were found for this stand howeve old inventory records note that this stand was treated with Tordon in an effort to convert it to an opening. A diverse shrub component is present places, including some nice clumps of hawthorn and serviceberry. Som of the black cherry is large (>5" DBH) but not merchantable quality. Average ba/acre from 5 plots = 76 square feet. Flat terrain. The
O C Qu Ba	Canopy Species Quaking Aspen Balsam Poplar 42290 - Natu Canopy Species Red Pine Jack Pine Quaking Aspen Red Oak	% Cover 60 40 ural Mixed F % Cover 14 33 4 3	Size Class Pole/Log Pole/Log/Sap Pine Polet Size Class Log/XLog/Pole Pole/Log Pole Log/XLog	DBH 9 9 9 timbel 15 8 8 15	62 r Mediu	Sub-Canopy Species Nannyberry Black Cherry Tag Alder m 9.0 42 Sub-Canopy Species Red Pine Red Maple Serviceberry (Juneberry) Hawthorn (spp.)	Density Medium Low High 51-80 Density Trace Trace Low Trace	Avg. Height Variable Variable >20 feet N/A Avg. Height Variable >20 feet Variable 5 - 10 feet	Size Sapling Sapling Size Sapling Sapling Sapling Tall Shrub	Mostly a stand of poor-quality, open grown timber. Stocking is variable and clumpy in nature with open areas mixed in throughout. A small strip of trees adjacent to Twin Lakes Road was left uncut and has better stocking. No previous harvest records were found for this stand howeve old inventory records note that this stand was treated with Tordon in an effort to convert it to an opening. A diverse shrub component is present places, including some nice clumps of hawthorn and serviceberry. Som of the black cherry is large (>5" DBH) but not merchantable quality. Average ba/acre from 5 plots = 76 square feet. Flat terrain. The Towerman's Watch Pathway travels through this stand. Although timber
O C Qu Ba	Canopy Species Quaking Aspen Balsam Poplar 42290 - Natu Canopy Species Red Pine Jack Pine Quaking Aspen Red Oak Red Maple	% Cover 60 40 40 ural Mixed F % Cover 14 33 4 3 8	Pine Polet Size Class Pole/Log/Sap Pine Polet Size Class Log/XLog/Pole Pole/Log Pole Log/XLog Pole/Log	9 9 9 ttimber 15 8 8 15 8	62 r Mediu	Sub-Canopy Species Nannyberry Black Cherry Tag Alder m 9.0 42 Sub-Canopy Species Red Pine Red Maple Serviceberry (Juneberry) Hawthorn (spp.) Black Cherry	Density Medium Low High 51-80 Density Trace Trace Low Trace Medium	Avg. Height Variable Variable >20 feet N/A Avg. Height Variable >20 feet Variable 5 - 10 feet Variable	Size Sapling Sapling Size Sapling Sapling Tall Shrub Tall Shrub Tall Shrub	birch, white spruce, and willow. Good amount of large CWD in the stand due to ongoing windthrow. Mostly a stand of poor-quality, open grown timber. Stocking is variated and clumpy in nature with open areas mixed in throughout. A small of trees adjacent to Twin Lakes Road was left uncut and has better stocking. No previous harvest records were found for this stand hoold inventory records note that this stand was treated with Tordon in effort to convert it to an opening. A diverse shrub component is preplaces, including some nice clumps of hawthorn and serviceberry. of the black cherry is large (>5" DBH) but not merchantable quality Average ba/acre from 5 plots = 76 square feet. Flat terrain. The

Canopy Species % Cover Size Class **DBH Age** White Spruce 1 Log/Pole 11 1 Pole 6 Balsam Fir 8 Bigtooth Aspen 4 Pole Paper Birch 2 Pole 7 Beech 1 Pole 6 5 8 Red Oak Pole/Log 19 12 White Pine Log/Pole/XLog 8 Pole 6 Red Maple Jack Pine 18 Log/Pole 12

41

Log/XLog

42290 - Natural Mixed Pine

Sub-Canopy Species Density Avg. Height Size Black Cherry Medium Variable Tall Shrub White Pine Medium Variable Sapling Sapling Beech Trace Variable White Spruce Trace Variable Sapling Balsam Fir Trace Variable Sapling Tall Shrub Tag Alder Low 10 - 20 feet Red Maple Low Variable Sapling

81-110

N/A

84

6.8

Sawtimber Well

14 84

Mixed species stand, with the majority of it lying on a steep slope overlooking the Pigeon River. Jack pine used to be a large component of the stand but much of it has died, with red maple and white pine filling in underneath. Legacy size white pine are scattered throughout. A sliver of lowland is present at the bottom of the slope and is where the fir and spruce component is located. A few younger red oak stems scattered throughout the stand. Average ba/acre from 4 plots = 83 square feet. The Shingle Mill Pathway runs east-west through the eastern part of the stand. No management due to the steep slopes and proximity to the Pigeon River.

Red Pine

112

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Stand	Level 4 Co	over Type	Si	ize De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
113	42290 - Natu	ıral Mixed I	Pine Sa	awtimb	er Well	7.1	93	81-110	N/A		-Stand lies on a steep ridge overlooking the Pigeon RiverHigh Country Pathway passes through a portion of this stand.
(Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	-ingricountry Fattiway passes through a portion of this stand.
	Red Oak	3	Log/Pole	11		Round Lea	ved Dogwood	Low	Variable	Tall Shrub	
В	Bigtooth Aspen	9	Log/Pole	12		Whi	e Pine	Low	Variable	Sapling	
	White Pine	18	XLog/Log	18		Black	Cherry	Low	5 - 10 feet	Tall Shrub	
	Paper Birch	6	Pole/Log	9							
	Red Maple	8	Pole	7							
	Jack Pine	13	Pole/Log	9							
	Red Pine	43	Log/XLog/Pole	14	93						
114	42110 - Plar	nted Red P	Pine Saw	rtimber	· Mediu	m 9.4	101	51-80	N/A		Large diameter, good quality red pine. The stand had a species removal
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	harvest in 1995, removing everything except red pine, white pine, and oak, which resulted in variable stocking of the overstory. Regeneration
	Jack Pine	5	Pole	5		Jac	k Pine	Low	Variable	Sapling	came back well in some areas to a mix of species but is lacking in those
	White Pine	12	Log/Pole	12		В	eech	Trace	Variable	Sapling	areas with a higher BA of red pine. In general, there is more pine
	Red Pine	83	Log/XLog	14	101	Bigtoo	th Aspen	Low	>20 feet	Sapling	regeneration to the north and more deciduous regeneration along the south stand edge. Some of the old skid trails have red and jack pine
						Whi	e Pine	High	Variable	Sapling	regeneration. Nice diversity of mast-producing shrubs in some areas of
						Red	d Pine	Low	10 - 20 feet	Sapling	the understory with hawthorn, serviceberry, and witch hazel all present,
										although these species are rare in the stand. Tr	l although these species are rare in the stand. Trace of red oak and white
						Black	Cherry	Medium	Variable	Tall Shrub	oak saplings and poletimber, closer to the trail at the south end. Trace
							Cherry Maple	Medium Trace	Variable Variable	Tall Shrub Sapling	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76
					_						oak saplings and poletimber, closer to the trail at the south end. Trace of
115	6111 - Lowland	d Balsam F	Poplar Sa	wtimb	er Poor	Red					oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present
	6111 - Lowland Canopy Species	d Balsam F				Red r 5.6	Maple	Trace	Variable		oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet.
(er Poor I Age	Red 5.6 Sub-Can	Maple 58	Trace	Variable N/A	Sapling	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present
(E	Canopy Species	% Cover	Size Class	DBH	l Age	T 5.6 Sub-Can Balsar	Maple 58 ppy Species	1-50 Density	Variable N/A Avg. Height	Sapling	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce.
(E	Canopy Species Balsam Poplar	% Cover	Size Class Log/Pole	DBH	l Age	Sub-Can Balsaı Tag	Maple 58 ppy Species n Poplar	1-50 Density Low	Variable N/A Avg. Height >20 feet	Sapling Size Sapling	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce.
(E	Canopy Species Balsam Poplar	% Cover	Size Class Log/Pole	DBH	l Age	r 5.6 Sub-Can Balsar Tag	58 ppy Species m Poplar Alder	1-50 Density Low High	N/A Avg. Height >20 feet 10 - 20 feet	Size Sapling Tall Shrub	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce.
(E	Canopy Species Balsam Poplar	% Cover 90 10	Size Class Log/Pole Log/Pole	10 11	l Age	Red sub-Can Balsa Tag Nani	58 ppy Species m Poplar Alder nyberry ebark	1-50 Density Low High Low	Variable N/A Avg. Height >20 feet 10 - 20 feet Variable	Size Sapling Tall Shrub	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce. This stand encompasses most of the Pigeon River State Forest
116	Canopy Species Balsam Poplar Quaking Aspen	% Cover 90 10	Size Class Log/Pole Log/Pole	DBH 10 11	58 er Well	T 5.6 Sub-Can Balsai Tag Nani Nin	58 ppy Species m Poplar Alder nyberry ebark	1-50 Density Low High Low High	N/A Avg. Height >20 feet 10 - 20 feet Variable 5 - 10 feet	Size Sapling Tall Shrub	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce. This stand encompasses most of the Pigeon River State Forest Campground and the Shingle Mill Pathway passes through as well. Nice
116	Canopy Species Balsam Poplar Quaking Aspen 42290 - Natu	% Cover 90 10	Size Class Log/Pole Log/Pole	DBH 10 11	58	Red 5.6 Sub-Can Balsan Tag Nann Nin 8.4 Sub-Can	Maple 58 popy Species m Poplar Alder myberry ebark 96	1-50 Density Low High Low High 81-110	N/A Avg. Height >20 feet 10 - 20 feet Variable 5 - 10 feet N/A	Size Sapling Tall Shrub Tall Shrub Tall Shrub	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce. This stand encompasses most of the Pigeon River State Forest Campground and the Shingle Mill Pathway passes through as well. Nice pine throughout the stand. Records show the red pine was planted but
116	Canopy Species Balsam Poplar Quaking Aspen 42290 - Natu Canopy Species White Pine	% Cover 90 10 10 ural Mixed I	Size Class Log/Pole Log/Pole Pine Sa Size Class	DBH 10 11	58 er Well	Red 7 5.6 Sub-Can Balsaa Tag Nani Nin 8.4 Sub-Can Red	Maple 58 ppy Species m Poplar Alder nyberry ebark 96 ppy Species	Trace 1-50 Density Low High Low High 81-110 Density	N/A Avg. Height >20 feet 10 - 20 feet Variable 5 - 10 feet N/A Avg. Height	Size Sapling Size Sapling Tall Shrub Tall Shrub Tall Shrub	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce. This stand encompasses most of the Pigeon River State Forest Campground and the Shingle Mill Pathway passes through as well. Nice pine throughout the stand. Records show the red pine was planted but not the white pine. Trace amounts of red oak and paper birch in the overstory. Average ba/acre from 3 plots = 103 square feet. I found a few
116	Canopy Species Balsam Poplar Quaking Aspen 42290 - Natu Canopy Species	% Cover 90 10 10 10 Windows Mixed I Wixed I Wixed I 35	Size Class Log/Pole Log/Pole Pine Sa Size Class Log/Pole/XLog	DBH 10 11 awtimb DBH 12	58 er Well	T 5.6 Sub-Can Balsa Tag Nani Nin 8.4 Sub-Can Rec	Maple 58 ppy Species m Poplar Alder myberry ebark 96 ppy Species d Oak	1-50 Density Low High Low High Density Low Low	Variable N/A Avg. Height >20 feet 10 - 20 feet Variable 5 - 10 feet N/A Avg. Height >20 feet	Size Sapling Tall Shrub Tall Shrub Tall Shrub Size Sapling Sapling	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce. This stand encompasses most of the Pigeon River State Forest Campground and the Shingle Mill Pathway passes through as well. Nice pine throughout the stand. Records show the red pine was planted but not the white pine. Trace amounts of red oak and paper birch in the overstory. Average ba/acre from 3 plots = 103 square feet. I found a few crabapple trees in the stand which is noted by "Apple (spp.)" in the
116	Canopy Species Balsam Poplar Quaking Aspen 42290 - Natu Canopy Species White Pine Quaking Aspen	% Cover 90 10 10 10 10 10 10 10 10 10 10 10 10 10	Size Class Log/Pole Log/Pole Pine Sa Size Class Log/Pole/XLog Log/Pole	DBH 10 11 awtimb DBH 12 11	58 er Well	Sub-Can Balsai Tag Nani Nin 8.4 Sub-Can Rei Bi White	Maple 58 ppy Species m Poplar Alder myberry ebark 96 ppy Species d Oak eech	1-50 Density Low High Low High 81-110 Density Low Low Low	N/A Avg. Height >20 feet 10 - 20 feet Variable 5 - 10 feet N/A Avg. Height >20 feet Variable	Size Sapling Tall Shrub Tall Shrub Tall Shrub Size Sapling Sapling Sapling Sapling	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce. This stand encompasses most of the Pigeon River State Forest Campground and the Shingle Mill Pathway passes through as well. Nice pine throughout the stand. Records show the red pine was planted but not the white pine. Trace amounts of red oak and paper birch in the overstory. Average ba/acre from 3 plots = 103 square feet. I found a few crabapple trees in the stand which is noted by "Apple (spp.)" in the understory data. A type of rose is present throughout the understory,
116 (C	Canopy Species Balsam Poplar Quaking Aspen 42290 - Natu Canopy Species White Pine Quaking Aspen Jack Pine	% Cover 90 10 ural Mixed I % Cover 35 5 6	Size Class Log/Pole Log/Pole Pine Size Class Log/Pole/XLog Log/Pole Log/Pole	DBH 10 11 11 12 11 10 10 10 10 10 10 10 10 10 10 10 10	58 er Well	Sub-Can Balsai Tag Nani Nin 8.4 Sub-Can Rei Bu White	Maple 58 ppy Species In Poplar Alder Inyberry	1-50 Density Low High Low High S1-110 Density Low Low Low Low	N/A Avg. Height >20 feet 10 - 20 feet Variable 5 - 10 feet N/A Avg. Height >20 feet Variable Variable	Size Sapling Tall Shrub Tall Shrub Tall Shrub Size Sapling Sapling	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce. This stand encompasses most of the Pigeon River State Forest Campground and the Shingle Mill Pathway passes through as well. Nice pine throughout the stand. Records show the red pine was planted but not the white pine. Trace amounts of red oak and paper birch in the overstory. Average ba/acre from 3 plots = 103 square feet. I found a few crabapple trees in the stand which is noted by "Apple (spp.)" in the understory data. A type of rose is present throughout the understory, possibly multiflora rose.
116 C	Canopy Species Balsam Poplar Quaking Aspen 42290 - Natu Canopy Species White Pine Quaking Aspen Jack Pine Balsam Fir	% Cover 90 10 10 10 10 10 10 10 10 10 10 10 10 10	Size Class Log/Pole Log/Pole Pine Sa Size Class Log/Pole/XLog Log/Pole Log/Pole Pole	DBH 10 11 awtimb DBH 12 11 10 6	58 er Well	Sub-Can Balsai Tag Nani Nin 8.4 Sub-Can Rei Bu White	Maple 58 ppy Species n Poplar Alder nyberry ebark 96 ppy Species d Oak eech Spruce am Fir	1-50 Density Low High Low High 81-110 Density Low Low Low Low	N/A Avg. Height >20 feet 10 - 20 feet Variable 5 - 10 feet N/A Avg. Height >20 feet Variable Variable Variable Variable Variable	Size Sapling Tall Shrub Tall Shrub Size Sapling Sapling Sapling Sapling Sapling	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce. This stand encompasses most of the Pigeon River State Forest Campground and the Shingle Mill Pathway passes through as well. Nice pine throughout the stand. Records show the red pine was planted but not the white pine. Trace amounts of red oak and paper birch in the overstory. Average ba/acre from 3 plots = 103 square feet. I found a few crabapple trees in the stand which is noted by "Apple (spp.)" in the understory data. A type of rose is present throughout the understory, possibly multiflora rose.
116 C	Canopy Species Balsam Poplar Quaking Aspen 42290 - Natu Canopy Species White Pine Quaking Aspen Jack Pine Balsam Fir Balsam Poplar	% Cover 90 10 10 10 10 10 10 10 10 10 10 10 10 10	Size Class Log/Pole Log/Pole Pine Saze Class Log/Pole/XLog Log/Pole Log/Pole Pole Pole/Log	DBH 10 11 awtimb DBH 12 11 10 6 8	58 er Well	Red T 5.6 Sub-Can Balsa Tag Nan Nin 8.4 Sub-Can Ree Bu White Bals Black Apple	Maple 58 ppy Species m Poplar Alder myberry ebark 96 ppy Species d Oak eech Spruce am Fir Cherry	1-50 Density Low High Low High Low High Low Low Low Low Low Medium	N/A Avg. Height >20 feet 10 - 20 feet Variable 5 - 10 feet N/A Avg. Height >20 feet Variable Variable Variable Variable Variable Variable	Size Sapling Tall Shrub Tall Shrub Size Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce. This stand encompasses most of the Pigeon River State Forest Campground and the Shingle Mill Pathway passes through as well. Nice pine throughout the stand. Records show the red pine was planted but not the white pine. Trace amounts of red oak and paper birch in the overstory. Average ba/acre from 3 plots = 103 square feet. I found a few crabapple trees in the stand which is noted by "Apple (spp.)" in the understory data. A type of rose is present throughout the understory, possibly multiflora rose.
116 C	Canopy Species Balsam Poplar Quaking Aspen 42290 - Natu Canopy Species White Pine Quaking Aspen Jack Pine Balsam Fir Balsam Poplar White Spruce	% Cover 90 10 10 10 10 10 10 10 10 10 10 10 10 10	Size Class Log/Pole Log/Pole Pine Sa Size Class Log/Pole/XLog Log/Pole Log/Pole Pole Pole Pole/Log Log/Pole	DBH 10 11 awtimb DBH 12 11 10 6 8 10	er Well	Red T 5.6 Sub-Can Balsa Tag Nani Nin 8.4 Sub-Can Rec White Bals Black Apple Red	Maple 58 ppy Species m Poplar Alder myberry ebark 96 ppy Species d Oak eech Spruce am Fir c Cherry e (spp.) Maple	Trace 1-50 Density Low High Low High 81-110 Density Low Low Low Low Medium Trace	N/A Avg. Height >20 feet 10 - 20 feet Variable 5 - 10 feet N/A Avg. Height >20 feet Variable Variable Variable Variable Variable Variable Variable	Size Sapling Tall Shrub Tall Shrub Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub Tall Shrub Sapling Sapling Sapling Sapling Sapling Sapling	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce. This stand encompasses most of the Pigeon River State Forest Campground and the Shingle Mill Pathway passes through as well. Nice pine throughout the stand. Records show the red pine was planted but not the white pine. Trace amounts of red oak and paper birch in the overstory. Average ba/acre from 3 plots = 103 square feet. I found a few crabapple trees in the stand which is noted by "Apple (spp.)" in the understory data. A type of rose is present throughout the understory, possibly multiflora rose.
116 C	Canopy Species Balsam Poplar Quaking Aspen 42290 - Natu Canopy Species White Pine Quaking Aspen Jack Pine Balsam Fir Balsam Poplar White Spruce Red Pine	% Cover 90 10 10 10 10 10 10 10 10 10 10 10 10 10	Size Class Log/Pole Log/Pole Pine Sa Size Class Log/Pole/XLog Log/Pole Log/Pole Pole Pole Pole/Log Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole	DBH 10 11 awtimb DBH 12 11 10 6 8 10 13	er Well	Red 5.6 Sub-Can Balsa Tag Nani Nin 8.4 Sub-Can Red White Bals Black Apple Red Serviceber	Maple 58 ppy Species m Poplar Alder myberry ebark 96 ppy Species d Oak eech Spruce am Fir c Cherry e (spp.)	Trace 1-50 Density Low High Low High 81-110 Density Low Low Low Low Medium Trace Low	N/A Avg. Height >20 feet 10 - 20 feet Variable 5 - 10 feet N/A Avg. Height >20 feet Variable	Size Sapling Tall Shrub Tall Shrub Size Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub	oak saplings and poletimber, closer to the trail at the south end. Trace of XL-sized white pine. Average ba/acre of the stand from 5 plots = 76 square feet. -Pigeon River runs through this standOther species that were present but rare included; red pine, white pine, balsam fir, and white spruce. This stand encompasses most of the Pigeon River State Forest Campground and the Shingle Mill Pathway passes through as well. Nice pine throughout the stand. Records show the red pine was planted but not the white pine. Trace amounts of red oak and paper birch in the overstory. Average ba/acre from 3 plots = 103 square feet. I found a few crabapple trees in the stand which is noted by "Apple (spp.)" in the understory data. A type of rose is present throughout the understory, possibly multiflora rose.

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Stand	Level 4 Cover Type			Size Densi	ty	Acres Stand Age BA Range		Managed \$	Site	General Comments	
117	6229 - Mixed	d lowland s	shrub	Nonstocke	ed	6.0 Uı	nspecified	No		-Pigeon River flows through this standSome relativley recent beaver activity on the larger balsam poplar.	
						Sub-Canopy Species	Density	Avg. Height	Size	-There is a small upland inclusion (~.5 acres) of red and jack pine in the	
						Black Cherry	Low		Sapling	NE corner of the stand. This area is adjacent to Elk Hill Campground.	
						White Spruce	Trace		Log		
						Blackberry/Raspberry	Low		Tall Shrub		
						Currant	Medium		Tall Shrub		
						Balsam Poplar	Trace		Seeding		
						Willow spp.	Low		Tall Shrub		
						Balsam Poplar	Trace		Log		
						Mixed Grasses	High		Non-Wood		
						White Spruce	Trace		Pole		
						Alder	High		Tall Shrub		
						Ninebark	Low		Tall Shrub		
						Sedges	Medium		Non-Wood		
						White Spruce	Trace		Sapling		
118	42110 - Pla	inted Red F	Pine S	Sawtimber \	Vell	11.4 95	81-110	N/A		Moderate quality red pine stand with a younger age class of regeneration	
	Canopy Species	% Cove	r Size Class	DBH A	ge	Sub-Canopy Species	Density	Avg. Height	Size	from a species removal harvest in 1997, where everything was cut exceptor red pine, white pine, and oak. Red maple regeneration is primarily in	
	White Pine	11	Log/Pole/XLog	11		Red Oak	Trace	>20 feet	Sapling	the northeast part of the stand. A few areas of lower BA have some	
	Red Pine	86	Log/Pole/XLog	13 9	5	Red Pine	Trace	Variable	Sapling	clumps of good quality white pine poletimber. White pine legacy trees are	
	Red Oak	2	Log/XLog	15	S	Serviceberry (Juneberry)	Trace	Variable	Tall Shrub	scattered throughout as are a small amount of XL-sized natural origin rec pine. Trace of paper birch, red oak, and beech poletimber. Average	
	Red Maple	1	Pole	6		Jack Pine	Low	Variable	Sapling	ba/acre from 6 plots = 117 square feet. The central part of this stand	
						Black Cherry	Medium	Variable	Tall Shrub	burned in a wildfire in the early 2000's, and the plow line is still evident.	
						White Pine	Medium	Variable	Sapling	No health issues on the pine, all appear to be healthy. Terrain is mostly flat except for the northern end of the stand which slopes down to the	
						Beech	Trace	Variable	Sapling	north.	
						Red Maple	Medium	>20 feet	Sapling		
						Paper Birch	Trace	>20 feet	Sapling		
119	42110 - Pla	inted Red F	Pine Sa	wtimber Me	edium	15.0 95	51-80	N/A		A red pine/white pine stand that resembles somewhat of a heavy	
	Canopy Species	% Cove	r Size Class	DBH A	ge	Sub-Canopy Species	Density	Avg. Height	Size	shelterwood. The red pine was originally planted and is generally good quality with some large diameters, and is more numerous along the	
	Balsam Fir	1	Pole	6		Witch Hazel	Trace	5 - 10 feet	Tall Shrub	southern stand boundary. The white pine is present in various sizes, with	
	White Pine	30	Pole/Log	8		White Pine	Medium	Variable	Sapling	a few XL-sized trees, and tends to occur in clumps. The most recent	
	Red Pine	67	Log/XLog	15 9	5	Beech	Trace	Variable	Sapling	harvest was from 2007, where all the jack pine, maple, and aspen were cut, along with some marked red and white pine (Mason Jar Pine, #53-	
	Red Maple	2	Pole	6	S	Serviceberry (Juneberry)	Trace	Variable	Tall Shrub	015-04, Bisballe). Regeneration has not responded well other than a few	
						Black Cherry	Medium	Variable	Tall Shrub	patches of white pine, and some small areas of jack and red pine	
						Red Pine	Trace	Variable	Sapling	saplings near the old landing in the middle of the stand (there is also a small crabapple tree in this area). Found two small white oak in the	
						Jack Pine	Low	Variable	Sapling	stand, a small sapling and a 8" tree near the northeast corner. Red oak is	
										present in the overstory but only in trace amounts. White spruce, paper birch, and bigtooth aspen can be found in trace amounts adjacent to Twir Lakes Road. Average ba/acre of the stand from 8 plots = 80 square feet.	



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Stand	Level 4 C	over Type	S	ize De	ensity	Acres Stand Ag	ge BA Range	Managed 9	Site	General Comments				
120	42110 - Pla	nted Red F	Pine Sa	awtimb	er Well	13.7 95	141-170	N/A		Moderate quality red pine stand that is quite small for its age. The only				
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Spe	cies Density	Avg. Height	Size	harvest record is from the 1997 where mostly jack pine and larger red maple were removed. Although the red pine is planted, this stand doesn't				
	Paper Birch	1	Log/Pole	10		White Pine	Medium	Variable	Sapling	resemble a plantation in many areas due to the white pine and deciduous				
	White Pine	11	Log/Pole/XLog	12		Witch Hazel	Trace	5 - 10 feet	Tall Shrub	component. The deciduous component is most numerous at the far				
	Red Pine	77	Log/Pole	12	95	Black Cherry	Low	Variable	Tall Shruk	western end of the stand. A few legacy size white pine are scattered throughout as well as a couple of natural origin, XL-sized red pine. Both				
	Red Maple	5	Pole	7		Beech	Trace	Variable	Sapling	older and younger red oak are present in the stand. Average ba/acre				
	Jack Pine	3	Pole	8		Red Maple	Trace	>20 feet	Sapling	from 7 plots = 154 square feet. Terrain gently slopes down to the				
	Red Oak	3	Log/Pole	11					,	north/northeast.				
121			atural Mixed Pine Po		er Well	5.1 64	81-110	N/A		Mixed conifer poletimber stand with a supercanopy of older red and white pine. A few white pine that are near legacy tree size. Jack pine used to				
		Size Class	DBH	l Age	Sub-Canopy Spe	cies Density	Avg. Height	Size	be a larger component of the stand but a lot of it has died, the majority					
	White Pine	51	Pole/Sap/Log	7	64	White Pine	Low	Variable	Sapling	that is left is in the northwest part of the stand. Average ba/acre from 5				
	Jack Pine	25	Pole	7						plots = 104 square feet. Flat terrain. The Towerman's Watch Pathway				
	Quaking Aspen	2	Pole	8						cuts through the far southern end of the stand. Let grow and manage for white pine.				
	Red Pine	22	Log/XLog/Pole	14	94					First				
122	22 42260 - Natural Pine, N		0 - Natural Pine, Mixed Deciduous Poletimber Weby Species % Cover Size Class DBH Age			1.8 47	81-110	N/A	0.	Young white pine/red maple stand. A scattered supercanopy of large diameter red pine is present mostly along the edges. There are a few				
	Canopy Species				Age	Sub-Canopy Spe		Avg. Height	Size	younger red pine poletimber trees. A couple of larger aspen stems are				
	Red Maple	27	Pole/Sapling	5		Red Maple	High	>20 feet	Sapling	mixed in as well. A couple of younger red oak stems that are somewhat free to grow. Only took one BA plot which came out to 100 square feet.				
	Bigtooth Aspen	6	Pole	6		White Pine	Low	Variable	Sapling	Thee to grow. Only took one BA plot which earne out to 100 square reet.				
	Red Oak Red Pine	3	Pole Log/XLog/Pole		93	Red Oak	Trace	>20 feet Variable	Sapling					
		16	0 0	7	47	Beech	Low	variable	Sapling					
	White Pine	48	Pole/Sap/Log	/	47									
123	4199 - Other Mixe	ed Upland [Deciduous Po		er Well	4.4 56	81-110	N/A		This stand was originally a part of stand 6 to the north but was excluded from the harvest because there is a significant amount of younger oak				
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Spec	cies Density	Avg. Height	Size	and hardwoods in this stand. Most of the beech has BBD. A few larger				
	Bigtooth Aspen	16	Pole	8		White Pine	Low	Variable	Sapling	diameter hardwoods are present, mostly along the edges. A few XL-sized				
	Quaking Aspen	4	Pole	8		Red Maple	Medium	>20 feet	Sapling	oak are present in the two fingers that extend north. White pine is mostly				
	Red Oak	29	Pole/Sap/Log	7	56	Beech	Medium	>20 feet	Sapling	concentrated in a single clump at the south end. Average ba/acre from 6 plots = 93 square feet.				
	Red Maple	26	Pole/Sapling	5		Sugar Maple	Trace	>20 feet	Sapling					
	White Pine	14	Pole/Log	8						-				
	Beech	9	Pole/Sap/Log	6										

Sugar Maple

2

Pole

6

Compartment: 34 Year of Entry: 2024



Stand	I Level 4 C	rel 4 Cover Type		Size D	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments				
124	4119 - Mixed No	orthern Har	dwoods	Poletim	ber Wel	l 35.7	97	81-110	N/A		Moderate to high quality hardwood stand that was last thinned in 2006 in				
	Canopy Species	% Cover	Size Class	s DB	H Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	the sale The Rock Hardwoods (#53-003-04), bought by AJD. Quality is best in the north and southwest parts of the stand. Pine can be found				
	Ironwood 1 Pole Red Pine 7 Log/XLo Sugar Maple 52 Pole/Lo Basswood 22 Log/Po Red Oak 5 Log/XLo	Pole	5		Ir	ronwood	High	Variable	Sapling	mostly along the east and north edges. Some very large diameter oak					
		Log/XLog	g 15	;	W	hite Pine	Trace	Variable	Sapling	are present. BBD on most beech, trace of XL-sized beech. Heavy					
	Sugar Maple	52	Pole/Log	8	97	Ir	onwood	Medium	< 5 feet	Seeding	understory of undesirable ironwood and beech saplings. Average ba/acre from 12 plots = 109 square feet. Most of the stand sits on a gradual east-				
	Basswood	22	Log/Pole	12			Beech	Medium	Variable	Sapling	facing slope. Not quite ready for a thinning yet but it will be next entry.				
	Red Oak		Log/XLog	g 16	16			,		•					
		Pole/Log	e/Log 8												
			Log/Pole	10)										
			4 Log/XLog 16		Log/XLog	Log/XLo	Log/XLog	;							
	Canopy Species Bigtooth Aspen	% Cover	Size Class		H Age		anopy Species Beech	Density Medium	Avg. Height Variable	Size Sapling	Hardwoods (#53-014-14-01), bought by Jeff Brasseur, cut by Roland Rieger. Mostly good job on the sale, a few high stumps were left, residual.				
	4112 - Maple, Beed	ch, Cherry /	Association I	Poletimb	er Mediu	ım 24.8	97	51-80	N/A		2021 Update - In general, a moderate to low quality hardwood stand. The stand was thinned in the winter of 2020-21 in the sale Tanager				
	Bigtooth Aspen	4	Log/XLog	g 15	;		Beech	Medium	Variable	Sapling	Rieger. Mostly good job on the sale, a few high stumps were left, residual				
	Sugar Maple	50	Pole/Log	9	97	97 Ironwood Medium 5 - 10 feet Sapling	damage not too bad. All beech was cut out of the stand except for a few stems that displayed resistance along with some good wildlife trees.								
	Red Maple	28	Pole/Log	9							Small retention area left in the middle to see what happens when we just				
	Ironwood	1	Pole	6							let the beech die instead of salvaging it. Northern edge of the stand was				
	Basswood	11	Log	12	!						excluded as this part transitions to a lot of very small poletimber stems.				
	Red Oak	3	Log	14	100										
	Beech	3	Pole/Log	9											
126				Poletim	ber Wel	l 15.8	97	81-110	N/A		Hardwood stand of varying quality and composition. The north half of the				
	Canopy Species	% Cover	Size Class	s DB	H Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	stand has more of the beech, red maple, and oak component, while the south half transitions to more sugar maple and basswood. The oak in the				
	Red Oak 16 Beech 11	16	Log/XLog	g 15	;	Ir	onwood	Low	Variable	Sapling	stand is high quality. Beech is abundant in a few areas, with all having				
		Pole/Log	9			Beech	High	5 - 10 feet	Sapling	BBD and being close to death. White pine tends to be in clumps along					
	Ironwood	1	Pole	6		W	hite Pine	Low	Variable	Sapling	the east and west edges. Trace of paper birch and white spruce in the overstory. Average ba/acre from 7 plots = 104 square feet. This stand				
	Sugar Maple 37 Pole/Log Red Pine 1 Log	Pole/Log	8	97			,			was originally prescribed for a beech salvage/selection harvest last entry,					
		14							with adjacent stands 8, 19, and 125, however this stand was excluded						
											because an active red shouldered nest was found in the stand during				

Low

Variable

Sapling

127	42260 - Natural Pir	ne, Mixed	Deciduous	s Sawtimber Well		J 3.1	3.1 93 1		11-170	N/A			
	Canopy Species	% Cove	r Size Class	ı	DBH	Age	Sub-Car	nopy Speci	es	Density	Avg. Heig	ght	Size
	Red Maple	12	Pole/Log		8		Strip	ed Maple		Trace	Variable	Э	Sapling
	White Pine	45	Log/Pole/XLo	og	13	93	В	Beech		Medium	Variable	Э	Sapling
	Red Pine	17	Log		14		Red	d Maple		Trace	>20 fee	t	Sapling

White Pine

8

14

15

14

15

Pole/Log

Log/XLog/Pole

Log/XLog/Pole

Log/XLog

Log/XLog

Small stand of nice quality pine. Large diameter trees (18"+) of aspen, oak, and pine are present throughout and also a few white pine legacy trees. This stand did not have a species removal harvest years ago like so many other pine stands did in this Compartment. Average ba/acre from 4 plots = 148. Leave unmanaged for now and let the aspen continue to die out. It's possible this was left as retention when stand 11 to the northeast was cut?

because an active red-shouldered nest was found in the stand during

Red Maple

Basswood

White Pine

Bigtooth Aspen

Red Oak

23

5

6

22

4

sale prep. No treatment needed at this time.



Stand	Level 4 Cover Type		e Si	Size Density		Acres Stand Age BA Range		Managed Site		General Comments					
128	4319 - Mixed	d Upland F	orest Po	letimb	er Well	8.0	58	51-80	N/A		This stand is a mixed bag of everything. White pine is dominant but tend				
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Canopy Spec		Density	Avg. Height	Size	to occur in scattered clumps. The quaking aspen component is mostly a the northwest corner. The far north/northeast end of the stand has some				
	Quaking Aspen	19	Pole/Log	8		Suga	ar Maple	Trace	>20 feet	Sapling					
	White Pine	40	Pole/Log/XLog	8	58	Red	d Maple		found throughout. Beech tends to be mostly along the east stand edge						
	Sugar Maple	6	Pole/Log/XLog	8		В	Beech	High	Variable	Sapling	and all of it has BBD and is close to death. A few large diameter, wolfy sugar maple are scattered throughout. Trace of paper birch and jack pi				
	Red Oak	6 Log/XLog/Pole 14			Wh	ite Pine	Medium	Variable	Sapling	in the overstory. Average ba/acre from 6 plots = 80 square feet. No sale					
	Red Pine	2	Log/Pole	14		Blac	k Cherry	rry Trace >20 feet Tall Shrub records		Tall Shrub	records for this stand but I'm guessing it had a partial harvest long ago.				
	Beech Red Maple	8	Pole/Log	9		Re	ed Oak	Trace	>20 feet	Sapling	Let the white pine continue to mature and manage for that species in the future.				
	Red Maple	14	Pole/Log	8							i luture.				
	Bigtooth Aspen	5	Log/Pole	12											
							ite Pine	Trace	>20 feet	Pole					
							nopy Species	Density	Avg. Height	Size					
						Blac	k Cherry	Medium	Variable	Tall Shrub					
						Jac	ck Pine	Trace	>20 feet	Pole					
						Cladonia (F	Reindeer moss) Low	Unspecified	Non-Wood					
						Brac	ken Fern	High	Unspecified	Non-Wood					
						Jac	ck Pine	Low	Variable	Sapling					
						Mixed	d Grasses	High	Unspecified	Non-Wood					
						Wh	ite Pine	Trace	Variable	Sapling					
						Re	d Pine	Trace	Variable	Sapling					
						Swe	eet Fern	Low	< 5 feet	Tall Shrub					
30	42110 - Pla	nted Red I	Pine Sa	wtimb	er Well	16.5	97	111-140	N/A		Moderate quality red pine stand with some big diameters. Stocking vari-				

130	42110 - Pla	ntea Rea F	rine	Sawtimi	er vvei	1 16.5	97	111-140	N/A	
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Can	opy Species	Density	Avg. Height	Size
	Red Oak	3	Log	14		Red	Maple	Trace	Variable	Sapling
	White Pine	6	Log/Pole	10		Black	Cherry	Low	Variable	Tall Shrub
	Red Pine	91	Log/XLog/Pol	e 14	97	Bigtoo	th Aspen	Low	>20 feet	Sapling
						Jacl	k Pine	Trace	>20 feet	Pole
						Jacl	k Pine	Medium	10 - 20 feet	Sapling
						Red	d Pine	Low	< 5 feet	Seeding
						Ве	eech	Trace	Variable	Sapling
						Red	d Pine	Trace	Variable	Sapling
						Whit	e Pine	Medium	Variable	Sapling
						Bigtoo	th Aspen	Trace	>20 feet	Pole

Moderate quality red pine stand with some big diameters. Stocking varies significantly as a result of a species removal harvest in 1997 (Ford Lake Pine Block, #53-015-94, Georgia Pacific), where everything was cut except for red pine, white pine, and oak. BAs in the stand range anywhere from 30 to 170 square feet. Some of the lower stocked areas have regenerated well to jack pine, especially a linear north-south running area in the northeast part of the stand. A few pockets of aspen and red pine have regenerated as well. The overstory oak component is mostly at the far southern end. Trace of balsam fir and white spruce saplings. Average ba/acre of the stand from 7 plots = 120 square feet. Terrain gradually slopes up to the north. The Shingle Mill Pathway runs north-south through the length of the stand.

Compartment: 34 Year of Entry: 2024



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age BA Range	Managed Site	General Comments
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121	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	24	52	51-80	
131	42200 - Natural Fille, Mixeu Deciduous	Foletiiiibei Medidiii	2.4	32	31-00	

Canopy Species 6	% Cove	r Size Class	DBH	Age
Red Pine	12	Log/Pole/XLog	13	
Jack Pine	10	Pole/Log	9	
Bigtooth Aspen	20	Pole	8	
Quaking Aspen	3	Pole	7	
Red Maple	10	Pole/Sap/Log	7	
Red Oak	1	XLog/Log	18	
White Spruce	2	Pole/Log	8	
White Pine	42	Pole/Log	9	52

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Low	Variable	Tall Shrub
White Pine	Medium	Variable	Sapling
Black Cherry	Low	Variable	Tall Shrub
Red Maple	High	Variable	Sapling

N/A

NI/A

Size

Sapling

Seeding

Sapling

Sapling

Sapling

Poor quality stand with many areas of low stocking that have filled in with either red maple or white pine saplings. Jack pine used to be a larger component of the stand but most of it has died which is the reason for the areas of lower stocking. A few clumps of very large serviceberry along the south edge (3-5" DBH). Average ba/acre of the stand from 3 plots = 67 square feet. Let the understory continue to fill in and manage when mature.

132 6127 - Lowland Pine Sawtimber Well 2.3 84 51-80 N/A

Canopy Species	% Cove	r Size Class	DBH	Age
Balsam Poplar	2	Pole	8	
Red Pine	40	Log	13	84
Jack Pine	15	Pole/Log	8	
White Spruce	3	Pole/Log	8	
Quaking Aspen	19	Log/Pole	11	
Balsam Fir	1	Pole	6	
White Pine	20	Log/Pole	12	

40440 Dianted Ded Dine

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Black Cherry	Medium	Variable	Sapling

04 440

Mixed species stand that is lowland from a landscape perspective, however the ground is not overly wet. Jack pine used to be a larger component but many have died. Found 1 ash poletimber stem that is alive. Average ba/acre from 2 plots = 70 square feet. No management due to proximity to the Pigeon River.

133				awtimb	er vveii	6.8	96	81-110	N/A	
	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	
	White Pine 22 Log/Pol Jack Pine 3 Po		Log/Pole/XLog	Log 13 96		Re	Red Pine		Variable	,
			Log/Pole/XLog	12		Red	d Maple	Medium	< 5 feet	5
			Pole	6		Red	d Maple	Trace	>20 feet	,
			Log/XLog	15		Wh	ite Pine	Medium	Variable	,
				•		Jac	k Pine	Trace	Variable	

This stand had a species removal harvest in 1997 in the sale Ford Lake Pine Block (#53-015-94, Georgia Pacific), cutting everything except red pine, white pine, and oak. As a result, the residual stocking is highly variable and tends to alternate between dense clumps and more open areas with BAs under 50 square feet. The northwest corner of the stand has a pocket of jack pine and white pine poletimber. Trace of red maple poletimber. Heavy browse on the red maple seedlings and almost all red maple saplings have been girdled by elk stripping off the bark of the lower bole. Average ba/acre from 6 plots = 98 square feet.

134	42110 - Planted Red Pine	Sawtimber Well	7.0	85	141-170	N/A
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Canopy Species 6	% Cover	Size Class	DBH	Age
Red Oak	6	Log/Pole	11	
White Pine	29	Pole/Log	9	
Bigtooth Aspen	4	Log/Pole	11	
Red Maple	1	Pole	6	
Red Pine	60	Log/Pole	12	85

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Trace	>20 feet	Sapling
White Pine	Low	Variable	Sapling
Beech	Trace	Variable	Sapling
	-		1 0

Planted red pine stand with a nice component of natural white pine. This stand did not have a species removal like almost every other pine stand in the Compartment so there are still some deciduous species left in the stand, particularly the western finger of the stand, which has a small amount of aspen. Red oak is primarily in this western area as well. The quality of the pine is good although diameters are small due to no previous thinnings. Scattered XL-sized red and white pine are mixed in, including some legacy trees. Trace of paper birch and jack pine in the overstory. Average ba/acre from 6 plots = 147 square feet. A small stick nest was found in the eastern side of the stand. Old fire charred pine stumps are present throughout. Terrain is flat except for the western finger which is on a north facing downslope. The Shingle Mill Pathway follows the entire length of the northern boundary of this stand. Due to its proximity to Ford Lake, this stand should either be left unmanaged or managed on a longer rotation to promote big trees.



Stand	Level 4 C	Level 4 Cover Type Size Density Acres Stand Age BA Range Managed 6112 - Lowland Aspen Sawtimber Medium 2.5 68 51-80 N/A		Site	General Comments										
136	6112 - Lo			Sawtimber Medium		n 2.5	68	51-80	N/A		Lowland popple stand that does not appear to have been harvested when				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	adjacent stands 84 and 101 were clearcut. This stand is very close to the Pigeon River, and the east half of the stand is very wet, both of which				
	Paper Birch 3 Pole		Pole	e 7		Tag Alder		High 10 - 20 feet	Tall Shrub	may be reasons it wasn't harvested. A few areas of drier ground on the					
	Balsam Poplar	13	Pole	7		Na	nnyberry	Low	10 - 20 feet	Tall Shrub	north edge of the stand. Stocking is light in areas of the stand. Average				
	Jack Pine	1	Pole	7		Whi	te Spruce	Low	Variable	Sapling	ba/acre from 4 plots = 58 square feet. No management due to wet ground and proximity to the Pigeon River.				
	White Spruce	2	Pole/Log	8		Bals	am Poplar	Low	Variable	Sapling	ground and proximity to the rigodifficer.				
	Red Pine	2	Log	14		Servicebe	erry (Juneberry)	Low	Variable	Tall Shrub					
	Quaking Aspen	79	Log/Pole	11	68	Hawt	horn (spp.)	Trace	5 - 10 feet	Tall Shrub					
						Bla	ck Cherry	Low	Variable	Tall Shrub					
137	137 429 - Mixed Upland Conifers Poletimber Wo		429 - Mixed Upland Conifers Poletimber V		29 - Mixed Upland Conifers Poletimber		429 - Mixed Upland Conifers P		er Well	2.3	37	81-110	N/A		This stand was clearcut in 1985 along with adjacent stands 81 and 87 but
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	had most of the aspen removed by beavers. Spruce, fir, and white pine have since filled in very well and are densely stocked in some areas,				
	Red Maple	12	Pole/Sapling	5		White Pine White Spruce				particularly the east half of the stand. Average ba/acre from 5 plots = 94					
	Red Oak	1	Log/XLog	16				Low	Variable	Sapling	square feet. Most of the stand sits on a slope that overlooks the Pigeon				
	Quaking Aspen	3	Pole/Sapling	5		Red Maple		Trace	>20 feet	Sapling	River, the far east end of the stand dips down to the base of the slope and is wetter ground. Manage for pine. Do not clearcut again due to the				
	White Spruce	13	Pole/Sapling	7		Balsam Fir		Medium	Variable	Sapling	proximity to the Pigeon River.				
	Red Pine	1	Log/Pole	11						,	•				
	Balsam Fir	30	Pole/Sapling	7											
	White Pine	40	Pole/Log	8	37										
263	263 42110 - Planted Red Pine		ine Sa	awtimb	er Poor	15.8	86	1-50	N/A		Stand was cut in the fall/early winter of 2017 in the sale Ford Lake Red Pine, #53-004-14-01, bought by Precision. Roundwood harvest followed				
	Canopy Species	% Cover	Size Class	DBH	l Age						up by chipping of the tops. Quite a bit of ground scarification took place				
	White Pine	10	Log	12							here which will hopefully allow for some natural red pine regeneration.				
	Red Oak	1	Log	12							Average residual ba/acre = 21 square feet.				
	Red Pine	89	Log	13	86						2021 - Regen survey indicated excellent natural pine regen and the decision was made to remove the overstory red pine due to Diploidia concerns. Chapter 7 variance approved. Regen survey results (avg height in parentheses): red pine 1225 TPA (6"), white pine 600 TPA (6"), black cherry 50 TPA (5').				