

Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53045
Entry Year 2023
Acreage: 1,680
County Otsego

Management Area: Pigeon River Country

Revision Date: 2021-05-07

Stand Examiner: Greg Rekowski

Legal Description:

T31N R01W Sections 5, 8, and 17

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:

The majority of the Compartment is flat lowlands. Section 5 has some upland ground that is flat to gently rolling. Lowland soils are primarily Tawas and Lupton mucks. Upland soils are a mix of sands with the largest percentages in respective order being Rubicon sands, Lindquist sands, Morganlake loamy sands, and Croswell sands.

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

Solid block of State ownership. The southwest portion of the Compartment borders private land.

Unique Natural Features:

Wood turtles are known to occur in this Compartment.

Archeological, Historical, and Cultural Features:

None identified.

Special Management Designations or Considerations:

None identified.

Watershed and Fisheries Considerations:

The Black River flows south to north through the length of this Compartment. Numerous tributaries originate in the surrounding swamp and feed into the river. The Black River is known as having a high-quality brook trout fishery.

Wildlife Habitat Considerations:

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

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel operation is six miles away. Most of the compartment is wetland, which limits sand & gravel development potential. Furthermore, surface mining is not currently allowed. There are actively producing oil wells in Section 5. There is potential for Antrim Shale gas beneath the compartment and additional Guelph (Niagaran) reefs, but future additional mineral leasing and development is not currently allowed within the compartment. All parcels within the compartment are currently classified as Nonleasable, but active leases exist in the compartment tied to current and past production that predated the consent agreement. There has been, and continues to be, drainage of State mineral resources around the edge of the compartment without compensation to the State. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Section 5 is accessible via Green's Landing Trail, a county road. The DNR has an easement through private land which allows for public access to State land in Sections 8 and 17. However, this easement agreement is currently in dispute with the adjacent private landowner association and is awaiting judgement from the legal system.

Survey Needs:

None required at this time. Survey corners are well established along the public/private interface in Section 17.

Recreational Facilities and Opportunities:

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There are no developed recreational facilities or trails within this Compartment.

Fire Protection:

Fire potential is very low in this Compartment due to the prevalent wet ground, with the exception of the upland areas in Section 5. This area of the Compartment has good access in the event of fire suppression needs. Most roads are closed with berms.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

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

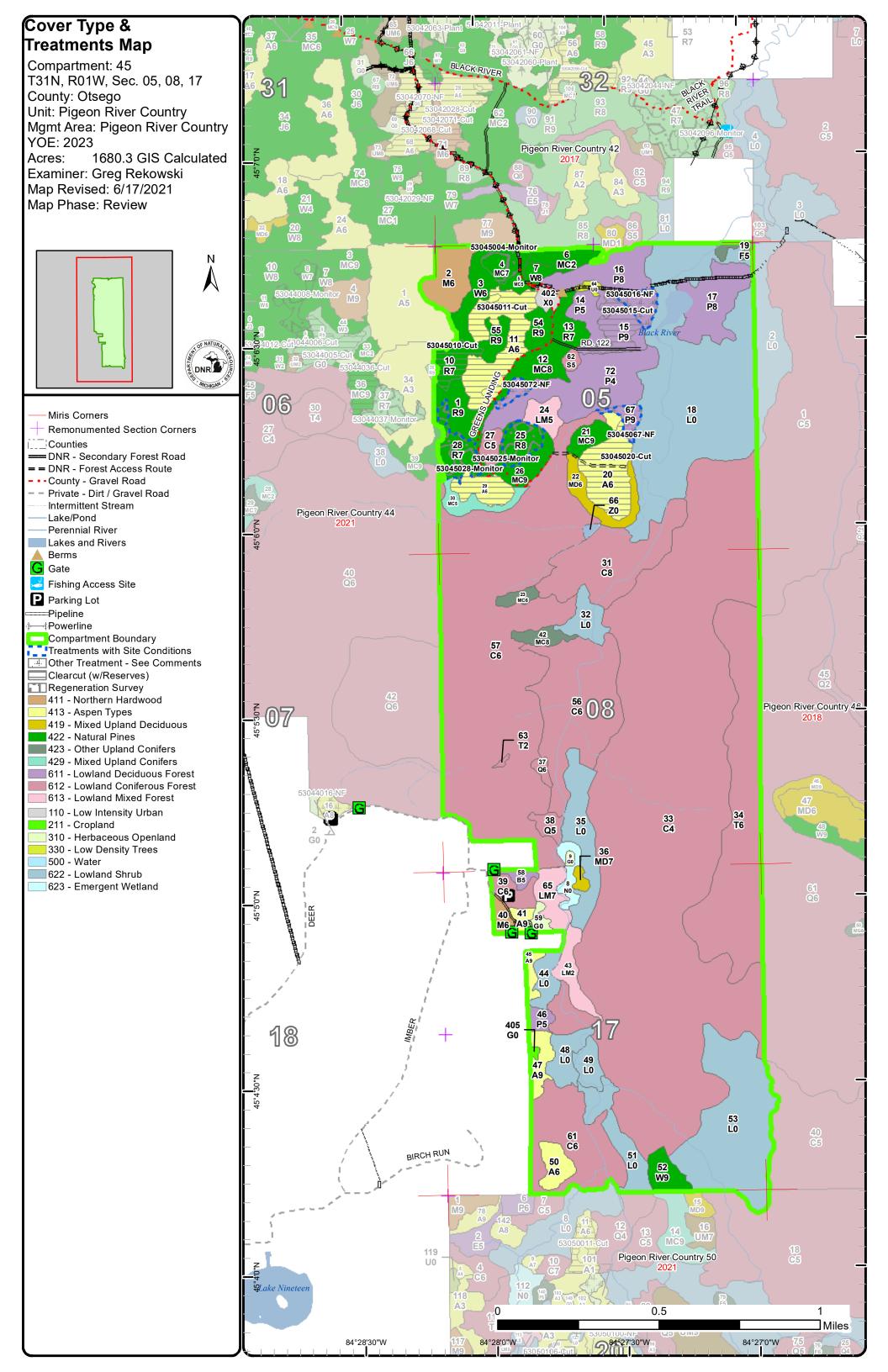
Pigeon River Country Mgt. Unit

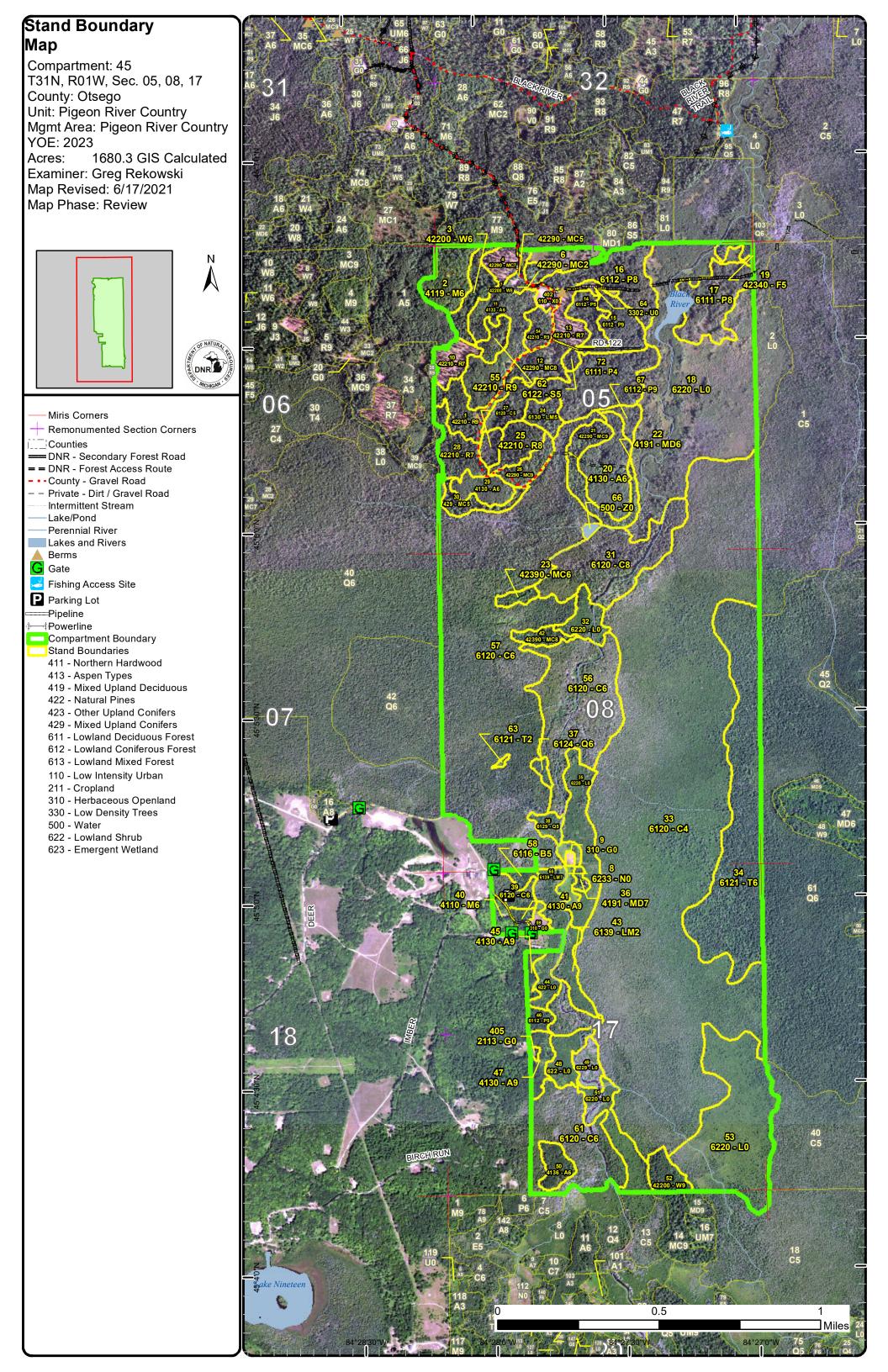
Compartment 45 Year of Entry 2023

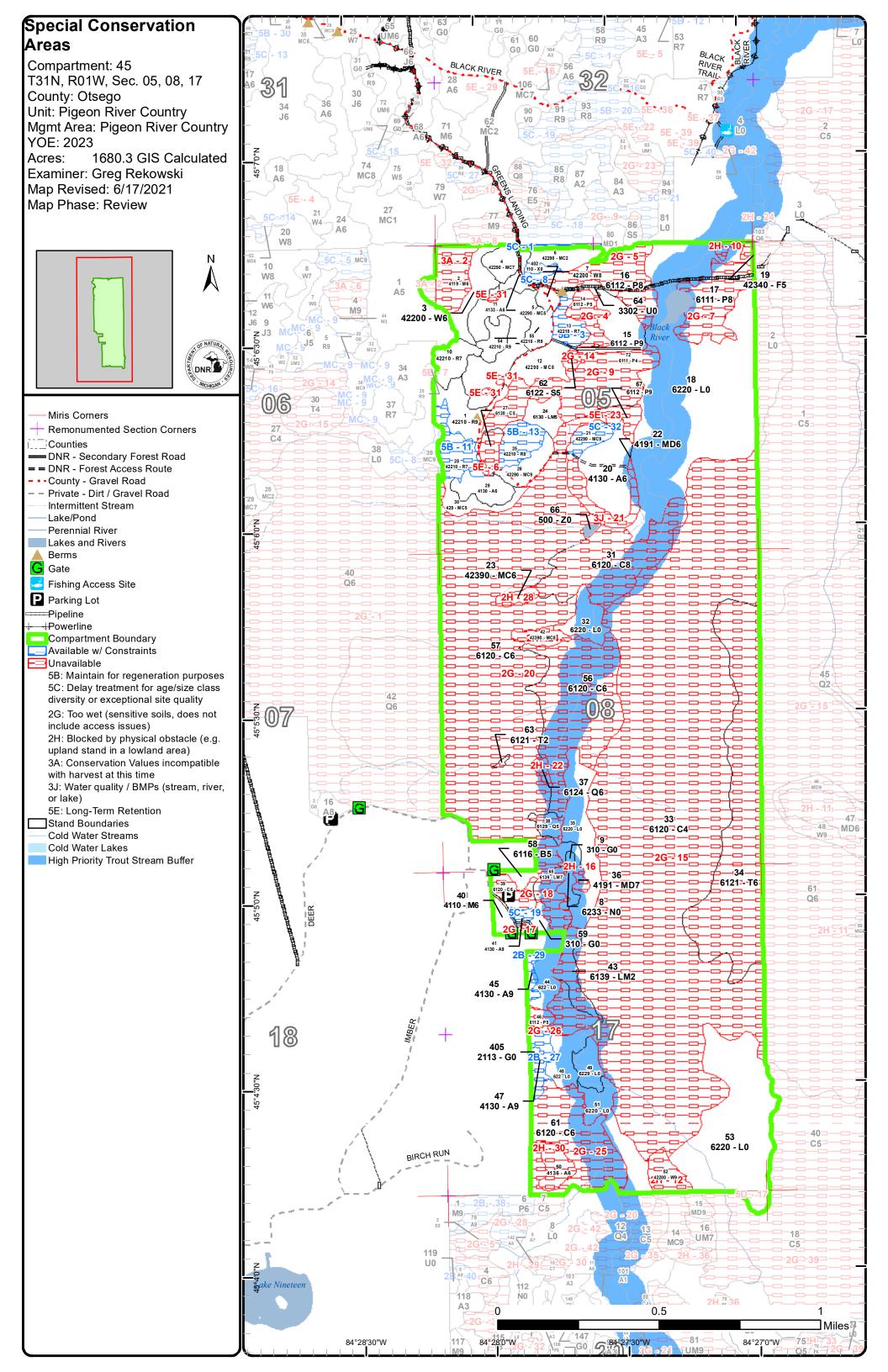
Greg Rekowski: Examiner

Age Class

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Aspen	0	0	0	0	0	66	3	0	10	0	0		0	0	0		0	0	79
Cedar	0	0	0	0	0	0	0	0	0	44	0	299	542	0	0	0	0	0	885
Cropland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	0	3	21	45	24	24	0	0	0	0	0	0	0	0	0	117
Lowland Conifers	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Mixed Forest	0	0	0	9	0	0	6	0	0	10	0	0	0	0	0	0	0	0	25
Lowland Shrub	279	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	278
Lowland Spruce/Fir	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Natural Mixed Pines	0	0	8	0	0	4	19	0	0	6	0	6	0	0	0	0	0	0	43
Northern Hardwood	0	0	0	0	0	0	0	0	0	15	4	0	0	0	0	0	0	0	19
Paper Birch	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	0	0	18	8	6	10	8	12	0	0	0	0	0	0	62
Tamarack	0	0	0	1	0	0	0	0	0	0	94	0	0	0	0	0	0	0	94
Upland Conifers	0	0	0	0	0	7	0	0	0	8	0	0	0	0	0	0	0	0	15
Upland Spruce/Fir	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	11	0	0	0	0	0	11	0	0	0	0	0	0	0	22
Total	295	0	8	16	17	98	91	37	40	105	117	317	542	0	0	0	0	0	1681









Report 2 – Treatment Summary

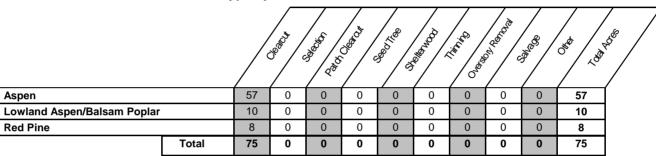
Pigeon River Country Mgt. Unit Year of Entry: 2023

Acres of Harvest

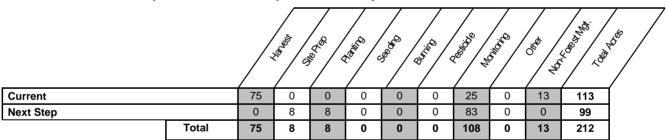
Compartment 45
Total Compartment Acres: 1,680

Commercial Harvest - 75
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Pigeon River Country Mgt. Unit

Report 3 -- Treatments

Compartment: 45 Year of Entry: 2023



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

Proposed Treatments:

53045010-Cut 4211 - Planted Even-Aged 8.2 42210 - Natural Sawtimber 62 1-50 Harvest Clearcut with No Red Pine Red Pine Poor Retention

Clearcut. Area retention is the small bubble (stand 35) on the west side. Leave all oak and white pine. Trench and replant to red pine. <u>Prescription</u>

Chipping will not be required due to the low BA of overstory pine. Add low stump spec. Specs:

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

Treatments:

Acceptable Fully-stocked stand of planted red pine.

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

11 53045011-Cut 27.2 4133 - Aspen, Poletimber 46 81-110 Harvest Clearcut with 413 - Aspen Even-Aged No Mixed Pine Well Retention

Prescription Cut all species except for oak. Leave all red or white pine over 18" DBH. Leave scattered small retention pockets around areas dominated by pine, see site conditions layer for preferred areas. Exclude small strips of advanced pine regeneration that are adjacent to Greens Landing Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Fully-stocked meeting aspen regeneration guidelines with any additional mix of species being accetable.

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

53045016-NF 5.8 6112 - Lowland Sawtimber 51-80 NonForestMgt Other - Specify 6112 - Lowland No Aspen Medium Aspen

Prescription This stand may be suitable for a Wildlife Habitat Grant project. Hand-fell all aspen and balsam poplar. Shear all alder. This site is too wet for any large mechanical equipment.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition Too Wet

Proposed Start Date: 5 /12/2021

Compartment: 45

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a n d	Treatment Name	Acres	Stand CoverType	Size Stan Density Age		Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
20	53045020-Cut	20.6	4130 - Aspen	Poletimber 4	7 81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No

Prescription Clearcut. Place retention at the far north end where the ground becomes wetter (already excluded in site conditions layer). Cut all species except for any incidental red pine. Leave all spruce over 12" DBH. Specs:

Follow the existing treatment boundary. Do not extend into surrounding stands as they are being left as buffers near streams and the Black

River.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

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

Other Use the field at the east edge as a landing. Comment:

The road getting into this stand needs work in the lowland portion where the stream and culvert are located. This may not be able to withstand the weight of logging truck traffic when the ground is not frozen. Look at requiring a winter harvest to freeze in this portion of the road if it has not been fixed by the time of sale prep.

Site Condition

Proposed Start Date: 10/1 /2022

53045029-Cut 8.8 4130 - Aspen Poletimber 141-Harvest Clearcut 413 - Aspen Even-Aged No Well 170

Prescription Clearcut with no area retention due to the small size of the stand. Cut all species except for any pine over 18" DBH.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

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

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Sawtimber 53045067-NF 4.0 6112 - Lowland 56 51-80 NonForestMgt Other - Specify 6112 - Lowland Even-Aged No Aspen Well Aspen

Prescription Potential stand for Wildlife Habitat Grant. Hand-fell all aspen and balsam poplar, shear all alder. This ground is not suitable for machinery. Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Comment:

Site Condition Too Wet

Proposed Start Date: 5 /12/2021

Pigeon River Country Mgt. Unit Report 3 -- Treatments Compartment: 45 Year of Entry: 2023 Treatment RΔ Treatment Acres Stand Size Stand **Treatment Cover Type** Age Habitat Name Method Objective CoverType Density Age Range Type Structure Cut 53045072-NF 52 6112 - Lowland 27 6111 - Lowland Poletimber 51-80 NonForestMat Other - Specify Even-Aged Nο Balsam Poplar Poor Aspen Prescription This stand may be suitable for Wildlife Habitat Grant funding. Shear all trees and shrubs with machinery if soils appear capable of withstanding equipment. Otherwise, hand-fell trees and shear the alder.

Next Step Treatments:

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Specs:

Acceptable Regen: Other

Comment:

Site Condition Too Wet

Proposed Start Date: 5 /12/2021

Approved Treatments:

53045004-42290 - Natural 6.1 Sawtimber 86 1-50 Monitoring Natural Regen 4319 - Mixed Two-Aged No **Monitor** Mixed Pine Poor (Intermediate) **Upland Forest**

Prescription Natural regen survey.

Specs:

Next Step **Treatments:**

Acceptable Any combination of species will be acceptable when evaluating for successful regeneration.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2030

53045015-Cut 10.0 51-80 Harvest 6112 - Lowland Sawtimber Clearcut 6112 - Lowland Even-Aged No Aspen Well Aspen

Prescription This stand was previously prepped and then purchased by Precision in the sale Little Gazelle Aspen but no activity took place and they dropped the sale in 2020. Lines will be refreshed and the sale will be put back up for bid. Cut all species except for any oak or elm. Also do Specs: not cut any pine or spruce over 20" DBH. No area retention.

Monitoring, Natural Regen (Re-Inventory)

Next Step **Treatments:**

Acceptable Fully-stocked stand of aspen.

Regen:

Other Comment:

Site Condition

Proposed Start Date: 5 /12/2021

42210 - Natural Sawtimber 42210 - Natural 53045025 8.4 86 1-50 Natural Regen No 25 Monitoring Two-Aged Monitor Red Pine Medium (Intermediate) Red Pine

Prescription 4 years post TCR Specs: TCR 05/31/2019

Next Step **Treatments:**

Acceptable Red pine that meets stocking guidelines.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition Shelterwood/Seed Source

Proposed Start Date: 10/1 /2022

Pigeon River Country Mgt. Unit Report 3 -- Treatments Compartment: 45 **Treatment** Size Stand BA **Treatment Treatment** Stand Acres

Range

1-50

Type

Monitoring

Method

Natural Regen

(Intermediate)

Age

Year of Entry: 2023 **Cover Type** Age Habitat Objective Structure Cut

Two-Aged

No

4319 - Mixed

Upland Forest

Prescription 4 years post TCR

10.8

Specs: TCR 05/31/2019 Next Step

Name

53045028-

Monitor

Treatments:

Acceptable Any mix of species will be acceptable when evaluating for successful regeneration.

Density

Poor

Sawtimber 108

CoverType

42210 - Natural

Red Pine

Regen:

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<u>Other</u> Percent to Treat = 100%

Comment:

Site Condition Shelterwood/Seed Source

Proposed Start Date: 10/1 /2022

Total Treatment 112.6 Acreage Proposed:

Pigeon River Country Mgt. Unit

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Availa	ability for	Managemer	nt										
Total	Acres	Acres Avail	Acres	D	omina	nt Site	Con	ditions	8				
Acres	Available	With Condition	Not Available		2B	5B	5C	2G	2H	ЗА	3J	5D	5E
79	57	13	10	Aspen	10		2	0	7				3
885	0	0	885	Cedar				885					
1	1	0	0	Cropland									
3	3	0	0	Herbaceous Openland									
2	2	0	0	Low-Density Trees									
118	14	0	104	Lowland Aspen/Balsam Poplar				104					
6	0	0	6	Lowland Conifers				4	2				
25	6	0	19	Lowland Mixed Forest				19					
273	270	0	3	Lowland Shrub				0				3	
2	0	0	2	Lowland Spruce/Fir				2					
5	5	0	0	Marsh									
12	0	0	12	Mixed Upland Deciduous					2		10		
42	36	6	0	Natural Mixed Pines			6						
19	4	0	15	Northern Hardwood						15			
3	3	0	0	Paper Birch									
62	32	29	1	Red Pine		29							1
94	0	0	94	Tamarack				94					
15	7	0	8	Upland Conifers					8				
3	0	0	3	Upland Spruce/Fir					3				
3	3	0	0	Urban									
1	1	0	0	Water									
22	11	3	8	White Pine			3		8				
1,675	454	51	1,170	Total Forested Acres	10	29	12	1,109	29	15	10	3	4
	27%	3%	70%	Relative Percent				·					

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

Site No.		Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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2	Unavailable	3A: Conservation Values incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Maintain this as an	unmanaged hardwood stand du	ue to its u	niqueness in relation to	the surrounding landscape.		
3	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	49	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
11	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
13	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	597	Unspecified	Unspecified	Unspecified	Unspecified
C	omments:						
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
	comments:						
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						

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20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	344	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Buffer for adjacent	streams and the Black River.					
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

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26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
27	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
28	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
29	Available	2B: Unknown if access through adjacent landowner(s) is possible	3	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
30	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
С	Comments:						
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Recommended rete	ention areas for stand 11.					

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32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Co	omments:						
							_

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Mgt. Unit

Compartment: #Type! Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

Conservation Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish speci conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	es to persist from year to year. Suitable by are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen condistocked 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 docommunities are ecologically and socially significant in their effect as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well

Report 7 - Stands

Compartment: 45 Year of Entry: 2023



Stanc	Level 4 Cover Type	Size Density	Acres	Stand Age B	A Range	Managed Site		General Comments
1	42210 - Natural Red Pine	Sawtimber Well	12.4	52	81-110	N/A		Two-aged pine stand along with a component of youn Large diameter, older red and white pine is more com
	Canony Species % Cover Size Cla	ss DBH Age	Sub-Ca	nony Species	Doneity	Ava Height	Siza	Large diameter, older red and write pine is more com

Canopy Species	% Cove	er Size Class	DBH	Age
White Pine	20	Pole/Log/Sap	8	80
Bigtooth Aspen	15	Pole	6	46
Red Pine	60	Log/Pole/XLog	12	52
Red Oak	1	Log/XLog	15	
Red Maple	4	Pole	7	

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

unger aspen as well. mmon in the south half of the stand which is also where some scattered clones of small diameter aspen are mixed in. There are also nice patches of advanced white pine regeneration in this area. The north half of the stand has younger and smaller diameter pine, the current age of 52 comes from a 13" red pine. Most of the stand appears to be natural pine except for the north part of the stand that is east of the road which has some distinguishable rows. The portion of the stand east of Greens Landing Trail is on transitional ground with the adjacent lowlands, there are legacy size white pine along this strip of the stand. Average ba/acre from 6 plots = 117 square feet.

Canopy Species	% Cover	Size Class	DRH	Age
Ironwood	1	Pole	5	
Red Oak	1	Log/XLog	16	
Bigtooth Aspen	1	Log/XLog	16	
Paper Birch	3	Log/Pole	11	
White Pine	7	XLog/Log	20	
Hemlock	3	Pole/Log	8	

8

18

50

1

4

1

1

8

8

12

65

Pole/Log/XLog

Log/Pole

Pole/Loa

Pole/Loa

Pole

Pole

Pole/Log

Pole

XLog/Log

Pole

Log/Pole

Pole/Log

% Cover Size Class

4119 - Mixed Northern Hardwoods

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Sapling
Beech	Low	Variable	Sapling
White Pine	Trace	Variable	Sapling
Hemlock	Trace	>20 feet	Pole
Hemlock	Trace	>20 feet	Sapling

111-140

Moderate quality hardwood stand that is heavy to red maple in most places. Quality is best in the southwestern 1/3rd of the stand, with more sugar maple and basswood in this area. Large diameter, supercanopy white pine is mostly at the northern end of the stand. Scattered clumps of suppressed hemlock in the understory. Hemlock saplings are not new ingrowth. A lot of the paper birch has died. Most beech has BBD and there are some areas of beech blowdown in the interior of the stand. Lots of clubmoss at the ground level in some areas. Average ba/acre from 7 plots = 123 square feet. Leave this stand unmanaged due to its unique character in relation to the surrounding landscape.

42200 - Natural White Pine 3

Beech

Basswood Sugar Maple

Red Maple

Canopy Species

Ironwood

Quaking Aspen

Beech

Sugar Maple

Red Oak

Bigtooth Aspen Red Pine

White Pine

2

Poletimber Well

8

11

8

8 84

6

11

8

Poletimber Well

15.1

10.8

6.2

37

84

81-110

N/A

N/A

DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
5		White Pine	Medium	Variable	Sapling
6		Ironwood	Low	Variable	Sapling
9		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
6		Black Cherry	Low	5 - 10 feet	Tall Shrub
19					

Mostly well-stocked stand dominated by white pine. Previous inventory noted that there was more aspen in the stand initially but it was mostly browsed to death. Most of the red pine looks slightly older and must have been left as residual following the harvest. There are a few scattered residual hardwoods and oak as well. Average ba/acre from 5 plots = 86 square feet.

42290 - Natural Mixed Pine

Sawtimber Poor

37

86

1-50

N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	53	Log/XLog	15	86	White Pine	Trace	Variable	Sapling
Red Oak	3	Log/XLog	15		White Pine	Low	< 5 feet	Seeding
White Pine	44	Log/XLog	16		Red Maple	Medium	< 5 feet	Seeding
					Quaking Aspen	Trace	< 5 feet	Seeding
					Common Blackberry	Medium	< 5 feet	Tall Shru
					Witch Hazel	Low	< 5 feet	Tall Shru
	Red Pine Red Oak	Red Pine 53 Red Oak 3	Red Pine 53 Log/XLog Red Oak 3 Log/XLog	Red Pine 53 Log/XLog 15 Red Oak 3 Log/XLog 15	Red Pine 53 Log/XLog 15 86 Red Oak 3 Log/XLog 15	Red Pine 53 Log/XLog 15 86 White Pine Red Oak 3 Log/XLog 15 White Pine White Pine 44 Log/XLog 16 Red Maple Quaking Aspen Common Blackberry	Red Pine 53 Log/XLog 15 86 Red Oak 3 Log/XLog 15 White Pine Trace White Pine 44 Log/XLog 16 Red Maple Medium Quaking Aspen Trace Common Blackberry Medium	Red Pine 53 Log/XLog 15 86 White Pine Trace Variable Red Oak 3 Log/XLog 15 White Pine Low < 5 feet

Stand harvested in the summer of 2016 as part of Raven's Ruin Pine. #53-022-13-01, bought by Precision. A whole-tree harvest took place and there was quite a bit of scarification within the stand. Not much regeneration has shown up yet other than red maple, which is being heavily browsed. Grass and sedge are becoming heavy in some areas. Residual trees are mostly high quality with some large diameter white pine. A few fell over after the harvest. Average ba/acre = 42 square feet. Retain the overstory and see if white pine starts to fill in. Evaluate at next inventory cycle.



Stand	Level 4 C	over Type	S	ize De	nsity	Acres	Stand Age E	A Range	Managed \$	Site	General Comments	
5	42290 - Natu	ural Mixed F	Pine Pole	etimber	Medium	3.7	47	51-80	N/A		Small hodgepodge of a stand that is basically the excluded edges of a	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	bunch of stands that were recently cut. A landing was created in the part of the stand west of the road when stand 4 was cut. A small camping	
	Bigtooth Aspen	2	Pole/Log	9		Wh	nite Pine	Medium	Variable	Sapling	area is present at the northeast side of the stand. Average ba/acre from 5	
(Quaking Aspen	16	Pole/Log	8							plots = 78 square feet. Doesn't make any sense to manage this stand on	
	Red Oak	1	Log/XLog	15							its own.	
	Red Maple	7	Pole/Log	8								
	Jack Pine	12	Pole/Log	8								
	Red Pine	14	Log/Pole	12								
	White Pine	48	Pole/Log	8	47							
6	42290 - Natu	ural Mixed F	Pine Sa	apling N	/ledium	7.6	15	mmature	N/A		Not very good regeneration except for the middle part of the stand which	
	Canopy Species	% Cover	Size Class	DBH	Age						has a nice mix of all 3 species of pine. It's look like there used to be quite a bit of bigtooth aspen regen throughout the stand but browse has killed	
	Red Oak	6	Log	14							most of it. Old 98DOQ imagery shows the east half of the stand was an	
	Bigtooth Aspen	5	Sapling	1							A6 while the west half was a J6. A few larger pine were left at the far eas	
	Red Pine	10	Sapling	3							end. Trace of black spruce saplings. Gently rolling terrain.	
	Jack Pine	30	Sapling	2								
	White Pine	49	Sapling	2	15							
											This stand had a species removal in 2005, cutting everything excep	
7	42200 - Natu			/timber	Medium	3.1	98	81-110	N/A			
•	42200 - Natu Canopy Species		Size Class	DBH	Medium Age		98 nopy Species		N/A Avg. Height	Size	and white pine. Nice residual pine with some large diameters. Basal	
				DBH		Sub-Ca				Size Sapling		
-	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height		and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average	
	Canopy Species Red Pine	% Cover	Size Class Log/XLog/Pole	DBH	Age	Sub-Ca Wh Blac	nopy Species nite Pine	Density Medium	Avg. Height Variable	Sapling	and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average	
•	Canopy Species Red Pine	% Cover	Size Class Log/XLog/Pole	DBH	Age	Sub-Ca Wh Blac Re	nopy Species nite Pine ck Spruce	Density Medium Low	Avg. Height Variable Variable	Sapling Sapling	and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average	
•	Canopy Species Red Pine	% Cover	Size Class Log/XLog/Pole	DBH	Age	Sub-Ca Wh Blac Re Quak	nopy Species nite Pine ck Spruce d Maple	Density Medium Low Low	Avg. Height Variable Variable Variable	Sapling Sapling Sapling	and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average ba/acre from 3 plots= 93 square feet.	
	Canopy Species Red Pine White Pine	% Cover	Size Class Log/XLog/Pole Log/XLog/Pole	DBH	98	Sub-Ca Wh Blac Re Quak	nopy Species hite Pine ck Spruce d Maple hing Aspen ck Cherry	Density Medium Low Low Low	Avg. Height Variable Variable Variable Variable	Sapling Sapling Sapling Sapling	and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average ba/acre from 3 plots= 93 square feet. Opening that was likely created at the same time the lodge for the old	
	Canopy Species Red Pine White Pine	% Cover 37 63	Size Class Log/XLog/Pole Log/XLog/Pole	DBH 14 15	98	Sub-Ca Wh Blac Re Quak Blac	nopy Species hite Pine ck Spruce d Maple hing Aspen ck Cherry	Density Medium Low Low Low Low Low Inspecified	Avg. Height Variable Variable Variable Variable 5 - 10 feet	Sapling Sapling Sapling Sapling	and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average ba/acre from 3 plots= 93 square feet. Opening that was likely created at the same time the lodge for the old hunt club was constructed. Most of the stand is seasonally wet ground	
	Canopy Species Red Pine White Pine	% Cover 37 63	Size Class Log/XLog/Pole Log/XLog/Pole	DBH 14 15	98	Sub-Ca Wh Blace Re Quak Blace 5.3 Sub-Ca	nopy Species nite Pine k Spruce d Maple ting Aspen ck Cherry	Density Medium Low Low Low Low Low Inspecified	Avg. Height Variable Variable Variable Variable 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Tall Shrub	and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average ba/acre from 3 plots= 93 square feet. Opening that was likely created at the same time the lodge for the old	
	Canopy Species Red Pine White Pine	% Cover 37 63	Size Class Log/XLog/Pole Log/XLog/Pole	DBH 14 15	98 98 ccked	Sub-Ca Wh Blace Re Quak Blace 5.3 Sub-Ca	nopy Species hite Pine k Spruce d Maple king Aspen k Cherry L nopy Species	Density Medium Low Low Low Low Density	Avg. Height Variable Variable Variable Variable 5 - 10 feet No Avg. Height	Sapling Sapling Sapling Sapling Sapling Tall Shrub	and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average ba/acre from 3 plots= 93 square feet. Opening that was likely created at the same time the lodge for the old hunt club was constructed. Most of the stand is seasonally wet ground except for some areas in the north half. Marsh grass/sedge is abundant	
8	Canopy Species Red Pine White Pine 6233 - W	% Cover 37 63 /et Meadow	Size Class Log/XLog/Pole Log/XLog/Pole	DBH 14 15 Nonsto	98 98 ccked	Sub-Ca Wh Blace Re Quak Blace 5.3 Sub-Ca	nopy Species hite Pine k Spruce d Maple king Aspen k Cherry L nopy Species	Density Medium Low Low Low Low Density Medium	Avg. Height Variable Variable Variable Variable 5 - 10 feet No Avg. Height 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Tall Shrub	and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average ba/acre from 3 plots= 93 square feet. Opening that was likely created at the same time the lodge for the old hunt club was constructed. Most of the stand is seasonally wet ground except for some areas in the north half. Marsh grass/sedge is abundant throughout. Former site of a lodge for the Rod and Gun Club. This is mostly dry ground. There is quite a bit of knapweed in the stand. Stand harvested in the summer of 2016 as part of Raven's Ruin Pine,	
8 9 10	Canopy Species Red Pine White Pine 6233 - W 310 - Herbac	% Cover 37 63 /et Meadow	Size Class Log/XLog/Pole Log/XLog/Pole	DBH 14 15 Nonsto	98 98 ocked	Sub-Car Wh Blace Re Quak Blace 5.3 Sub-Car Tar 0.8	nopy Species nite Pine ck Spruce d Maple cing Aspen ck Cherry L nopy Species ng Alder	Density Medium Low Low Low Low Medium Medium Medium Medium Medium Medium Medium Medium Medium	Avg. Height Variable Variable Variable Variable 5 - 10 feet No Avg. Height 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Tall Shrub	opening that was likely created at the same time the lodge for the old hunt club was constructed. Most of the stand is seasonally wet ground except for some areas in the north half. Marsh grass/sedge is abundant throughout. Former site of a lodge for the Rod and Gun Club. This is mostly dry ground. There is quite a bit of knapweed in the stand. Stand harvested in the summer of 2016 as part of Raven's Ruin Pine, #53-022-13-01, bought by Precision. Whole-tree harvest and a lot of	
8 9 10	Canopy Species Red Pine White Pine 6233 - W 310 - Herbac	% Cover 37 63 /et Meadow	Size Class Log/XLog/Pole Log/XLog/Pole	DBH 14 15 Nonsto	98 98 ocked	Sub-Can Wh Blace Re Quak Blace 5.3 Sub-Can Ta 0.8 8.2 Sub-Can	nopy Species nite Pine ck Spruce d Maple ding Aspen ck Cherry L nopy Species g Alder L	Density Medium Low Low Low Low Medium Medium Medium Medium Medium Medium Medium Medium Medium	Avg. Height Variable Variable Variable Variable 5 - 10 feet No Avg. Height 10 - 20 feet No	Sapling Sapling Sapling Sapling Tall Shrub	opening that was likely created at the same time the lodge for the old hunt club was constructed. Most of the stand is seasonally wet ground except for some areas in the north half. Marsh grass/sedge is abundant throughout. Former site of a lodge for the Rod and Gun Club. This is mostly dry ground. There is quite a bit of knapweed in the stand. Stand harvested in the summer of 2016 as part of Raven's Ruin Pine, #53-022-13-01, bought by Precision. Whole-tree harvest and a lot of	
8 9 10	Canopy Species Red Pine White Pine 6233 - W 310 - Herbac 42210 - Nat Canopy Species	% Cover 37 63 /et Meadow	Size Class Log/XLog/Pole Log/XLog/Pole land ine Sa Size Class	DBH 14 15 Nonsto Nonsto DBH	98 98 ocked	Sub-Ca Wh Blace Re Quak Blace 5.3 Sub-Ca Ta 0.8 8.2 Sub-Ca Wh	nopy Species nite Pine ck Spruce d Maple ding Aspen ck Cherry L nopy Species g Alder 62 nopy Species	Density Medium Low Low Low Inspecified Density Medium Inspecified 1-50 Density	Avg. Height Variable Variable Variable Variable 5 - 10 feet No Avg. Height 10 - 20 feet No N/A Avg. Height	Sapling Sapling Sapling Sapling Tall Shrub Size Tall Shrub	and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average ba/acre from 3 plots= 93 square feet. Opening that was likely created at the same time the lodge for the old hunt club was constructed. Most of the stand is seasonally wet ground except for some areas in the north half. Marsh grass/sedge is abundant throughout. Former site of a lodge for the Rod and Gun Club. This is mostly dry ground. There is quite a bit of knapweed in the stand. Stand harvested in the summer of 2016 as part of Raven's Ruin Pine, #53-022-13-01, bought by Precision. Whole-tree harvest and a lot of scarification took place during logging operations. Not much regeneration is showing up at this point. A thick grass component is widespread throughout which is likely impeding pine regeneration. Red maple and	
8 9 10	Canopy Species Red Pine White Pine 6233 - W 310 - Herbac 42210 - Nat Canopy Species Red Oak	% Cover 37 63 /et Meadow eeous Open tural Red P % Cover 3	Size Class Log/XLog/Pole Log/XLog/Pole land ine Sa Size Class Log	Nonsto Nonsto DBH 14 15	98 98 ocked	Sub-Ca Wh Blace Re Quak Blace 5.3 Sub-Ca Ta 0.8 8.2 Sub-Ca Wh	nopy Species nite Pine ck Spruce d Maple ching Aspen ck Cherry L nopy Species ng Alder 62 nopy Species nite Pine	Density Medium Low Low Low Density Medium Medium Inspecified 1-50 Density Low Low Density Density Low Low Low Density	Avg. Height Variable Variable Variable Variable 5 - 10 feet No Avg. Height 10 - 20 feet No Avg. Height < 5 feet	Sapling Sapling Sapling Sapling Tall Shrub Size Tall Shrub	and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average ba/acre from 3 plots= 93 square feet. Opening that was likely created at the same time the lodge for the old hunt club was constructed. Most of the stand is seasonally wet ground except for some areas in the north half. Marsh grass/sedge is abundant throughout. Former site of a lodge for the Rod and Gun Club. This is mostly dry ground. There is quite a bit of knapweed in the stand. Stand harvested in the summer of 2016 as part of Raven's Ruin Pine, #53-022-13-01, bought by Precision. Whole-tree harvest and a lot of scarification took place during logging operations. Not much regeneration is showing up at this point. A thick grass component is widespread throughout which is likely impeding pine regeneration. Red maple and aspen seedlings are being heavily browsed. Average residual ba/acre =	
8 9 10	Canopy Species Red Pine White Pine 6233 - W 310 - Herbac 42210 - Nat Canopy Species Red Oak White Pine	% Cover 37 63 /et Meadow eeous Open tural Red P % Cover 3 8	Size Class Log/XLog/Pole Log/XLog/Pole land ine Sa Size Class Log Log	Nonsto Nonsto DBH 14 15 Nonsto	98 98 ocked	Sub-Can Wh Blace Re Quak Blace 5.3 Sub-Can Ta 0.8 8.2 Sub-Can Wh Re Bigto	nopy Species nite Pine ck Spruce d Maple cing Aspen ck Cherry L nopy Species ng Alder 62 nopy Species nite Pine ed Pine	Density Medium Low Low Low Inspecified Density Medium Medium Density Low Low Low Low Low Low Low Lo	Avg. Height Variable Variable Variable Variable 5 - 10 feet No Avg. Height 10 - 20 feet No Avg. Height < 5 feet < 5 feet	Sapling Sapling Sapling Sapling Tall Shrub Size Tall Shrub Size Seeding Seeding	and white pine. Nice residual pine with some large diameters. Basal areas are lower at the south end with more regen in this area. Average ba/acre from 3 plots= 93 square feet. Opening that was likely created at the same time the lodge for the old hunt club was constructed. Most of the stand is seasonally wet ground except for some areas in the north half. Marsh grass/sedge is abundant throughout. Former site of a lodge for the Rod and Gun Club. This is mostly dry ground. There is quite a bit of knapweed in the stand. Stand harvested in the summer of 2016 as part of Raven's Ruin Pine, #53-022-13-01, bought by Precision. Whole-tree harvest and a lot of scarification took place during logging operations. Not much regeneratior is showing up at this point. A thick grass component is widespread throughout which is likely impeding pine regeneration. Red maple and	

46

28.4

4133 - Aspen, Mixed Pine

11

Compartment: 45
Year of Entry: 2023



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age BA Range	Managed Site	General Comments
		<u> </u>		_		<u> </u>

% Cove	er Size Class	DBH	Age
2	Pole	7	
8	Pole/Log	8	
25	Log/Pole/XLog	12	
1	Log/XLog	15	
6	Pole	5	
10	Pole	7	
48	Pole	8	46
	2 8 25 1 6 10	8 Pole/Log 25 Log/Pole/XLog 1 Log/XLog 6 Pole 10 Pole	2 Pole 7 8 Pole/Log 8 25 Log/Pole/XLog 12 1 Log/XLog 15 6 Pole 5 10 Pole 7

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black Cherry	Low	5 - 10 feet	Tall Shrub
Diddit dilatiy		0 .0.000	

N/A

Size

Sapling

Sapling

Sapling

Sapling

Sapling

Tall Shrub

81-110

Aspen stand of varying quality with a large component of red pine mixed in. Best quality and diameter growth is in the south half of the stand, which is predominantly bigtooth aspen. The north half of the stand is much lower aspen quality with a lot of small stems. The pine component is somewhat clumpy as there are scattered areas where it is dominant. The far north end has two small inclusions that used to have a lot of jack pine (see 98DOQ) although a lot of it has died. Scattered open areas with barely any trees and lots of reindeer moss. I'm wondering if this stand burned real hot in a wildfire many years ago which sterilized the soil in these areas. That could possibly explain the poor aspen diameter growth and also explain the large amount of natural pine found throughout this stand and others in the area. Old fire charred stumps are occasionally found throughout the stand. A few patches of nice advanced white pine regeneration can be found throughout as well as some small areas of nice red/white pine regen along the road. Average ba/acre from 13 plots = 104 square feet. With the exception of the bigtooth aspen in the south half, the rest of this stand is clearly better suited for pine.

12	42290 - Natural Mixed Pine	Sawtimber Medium	11.0	58	81-110	N/A

Poletimber Well

Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height
Red Oak	2	Log/XLog	15		White Pine	Medium	Variable
Black Spruce	6	Pole/Log	8		Red Maple	Trace	Variable
Red Maple	5	Pole	6		Black Spruce	Trace	Variable
Bigtooth Aspen	6	Pole	6		Red Pine	Trace	Variable
Quaking Aspen	10	Pole	6		Jack Pine	Trace	Variable
Jack Pine	13	Pole/Log	8		Black Cherry	Low	Variable
White Pine	11	Pole/Log/XLog	9				
Red Pine	47	Log/Pole/XLog	12	58			

Moderate quality mixed species stand. The red pine in the stand is natural except for a few spots at the far northern end that have a couple of planted rows. A variety of red pine diameters are present, including some large diameter, old trees. Jack pine used to be a larger component of the stand but much of it has died. Some areas that used to be primarily jack pine are now filling in with white pine. The southwest part of the stand adjacent to the road has a nice patch of natural pine regeneration. Black spruce is mostly along the lowland edges. Generally the aspen in the stand is small and poor quality, except for an area at the southwest edge of the stand that is seasonally wet and has larger aspen. The central part of the stand is on an elevated knob with moderately steep slopes on the south side. Most of the oak is located on this knob. Average ba/acre from 8 plots = 89 square feet.

13	42210 - Natural Red Pine	Sawtimber Poor	7.6	92	1-50	N/A
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	1	Log	11	
Red Oak	1	Log	13	
White Pine	26	Log/XLog	16	
Red Pine	72	Log/XLog	15	92

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Trace	5 - 10 feet	Sapling
White Pine	Trace	5 - 10 feet	Sapling
Black Spruce	Trace	5 - 10 feet	Sapling
Red Pine	Low	< 5 feet	Seeding
White Pine	Low	< 5 feet	Seeding
Jack Pine	Low	< 5 feet	Seeding
Black Spruce	Low	< 5 feet	Seeding
Red Maple	Low	< 5 feet	Seeding
Quaking Aspen	Trace	< 5 feet	Seeding

This stand was harvested in the summer of 2016 as part of Raven's Ruin Pine, #53-022-13-01, bought by Precision. Whole-tree skidding took place and tops were chipped but a lot of leftover slash was dragged back into the sale. Regardless a lot of scarification took place and mixed conifer regeneration is starting to show up. Residual trees are large diameter with an average residual ba/acre of 40 square feet. The southwest part of the stand was excluded from the harvest as BAs were already pretty low in that area. Regen survey results: red pine 280 TPA, jack pine 200 TPA, white pine 20 TPA, black spruce 20 TPA, quaking aspen 40 TPA. Many pine seedlings are still very small at this point and don't meet the 6" minimum size yet. Regeneration is best on skid trails but also showing up in many other areas of the stand. Re-evaluate next entry period, I'm guessing the regeneration will pass mixed conifer stocking standards by that time. Heavy browse noted on red maple stump sprouts. Several jack pine seedlings have also been browsed.



Stan	d Level 4 Co	over Type	Si	ze De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
14	6112 - Lov	wland Aspe	en Pole	timbei	Medium	8.1	46	1-50	N/A		Poorly-stocked, wet stand. Small areas of upland along the west edge.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Most conifers are along this edge as well as the thin finger that extends south. There used to be some black ash in the stand but it is now all
	American Elm	1	Log	12		Balsa	m Poplar	Medium	Variable	Sapling	dead. Most elm are dead as well except for a few that are hanging on.
	Black Spruce	1	Pole	6		Re	d Maple	Low	>20 feet	Sapling	Trace of red oak and white pine. Average ba/acre from 4 plots = 33
	White Spruce	5	Pole/Log	8		Whit	e Spruce	Low	Variable	Sapling	square feet. Average ba/acre from 4 plots = 33 square feet.
	Paper Birch	2	Log/Pole	10		Blac	k Spruce	Trace	Variable	Sapling	
	Black Cherry	5	Pole/Log	8		Ta	g Alder	High	10 - 20 feet	Tall Shrub	
	Balsam Poplar	17	Pole/Log	8		Blac	k Cherry	Low	Variable	Tall Shrub	
	Red Pine	2	Log/XLog	14		Nar	nnyberry	Low	5 - 10 feet	Tall Shrub	
	Red Maple	7	Pole	6							-
	Quaking Aspen	60	Pole/Log	8	46						
15	6112 - Lov	wland Aspe	en Sa	wtimb	er Well	13.4	47	51-80	N/A		Nice lowland aspen stand. A few small ridges of drier ground are present
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	at the north end of the stand and include a very small inclusion of red pine. The only other areas of drier ground are where the road travels
	Balsam Poplar	7	Pole/Log	9			e Spruce	Trace	Variable	Sapling	through the stand at the south end. Quite a bit of recent blowdown in the
	Red Maple	3	Pole/Log	8			ed Oak	Trace	>20 feet	Sapling	stand, possibly a result of the seed tree harvest that took place to the
	Quaking Aspen	84	Log/Pole	10	47	Ame	rican Elm	Trace	Variable	Sapling	west. Trace of white pine, red oak, paper birch, and elm in the overstory. Average ba/acre from 8 plots = 78 square feet. This stand was previously
	Black Cherry	1	Pole	6			g Alder	Full	10 - 20 feet	Tall Shruk	prepped and then purchased by Precision in the sale Little Gazelle Aspe
	Red Pine	4	Log/Pole/XLog	12		Nar	nyberry	Low	5 - 10 feet	Tall Shrub	but no activity took place and they dropped the sale in 2020. Lines will be
	White Spruce	1	Pole/Log	8							refreshed and the sale will be put back up for bid.
16						23.9	67	51-80	N/A		Moderately stocked lowland poplar stand that is mostly wet except for a
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	few small ridges of drier ground. A wet drainage flows east through the
	Black Cherry	2	Pole	7			d Maple	Low	Variable	Sapling	thin western part of the stand before turning into a wetland in the middle of the stand (see imagery). Stocking throughout the stand is patchy, with
	Paper Birch	1	Log	12		Balsa	m Poplar	Trace	Variable	Sapling	areas of little to no trees alternating with groves of aspen and BAM. Trac
	Red Maple	6	Log/Pole	12			e Spruce	Trace	Variable	Sapling	of elm, white pine, black spruce, and white spruce in the overstory, most of these species can be found along the edges. Found a few random rec
	Balsam Poplar	30	Pole/Log	8		Ame	rican Elm	Trace	Variable	Sapling	oak saplings on some of the drier ridges. Average ba/acre from 6 plots =
	Quaking Aspen	61	Log/Pole	11	67	Bla	ick Ash	Trace	Variable	Sapling	65 square feet. Soft organic soils and wet drainages make harvesting thi
	-		-			Nar	nnyberry	Low	5 - 10 feet	Tall Shrub	stand impractical.
						Blac	k Cherry	Medium	Variable	Tall Shrub	
							g Alder	High	10 - 20 feet	Tall Shrub	
						Servicebe	rry (Juneberry		Variable	Tall Shrub	
17	6111 - Lowland	d Balsam F	Poplar Saw	timber	Medium	24.1	73	1-50	N/A		Did not cross the river to see this stand. It is likely a mix of balsam popla and quaking aspen.
18	6220 - A	ulder/willow	·	lonsto	cked	136.7	l	Jnspecified	No		Only visited a few spots along the edge of this stand. It looks like mostly tag alder from imagery along with a few non-forested meadows. The Black River flows through the entire stand.
19	42340 - Upla	and Spruce	Pole	timbei	Medium	2.7	65	51-80	N/A		Did not visit this stand. From imagery it looks like the east and west side are upland islands, with areas of wetter ground in the thin, central part of the stand. Spruce and fir appear to be the primary species along with some cedar.

Report 7 - Stands

Compartment: 45
Year of Entry: 2023



Stand Level 4 Co		over Type	over type S		Size Density		Acres Stand Age BA Range		Site	General Comments				
20	4130	- Aspen	Po	Poletimber W		22.0 47	81-110	N/A		Nice stand of quaking aspen. Well developed shrub layer with trace				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Specie	es Density	Avg. Height	Size	amounts of hawthorn, serviceberry, and tag alder. White spruce increases in abundance at the far northern end. Trace of black spruce,				
	Red Pine	1	Log/XLog	15		White Spruce	Low	Variable	Sapling	sugar maple, and black cherry in the overstory. Average ba/acre f				
	Balsam Fir	1	Pole	7		Ironwood	Low	Variable	Sapling	plots = 108 square feet. Ground is mostly dry except for the north end				
	White Spruce	5	Pole/Log	8		White Spruce	Medium	< 5 feet	Seeding	which starts to transition to lowland.				
	Red Maple	8	Pole/Log	8		Black Cherry	High	Variable	Tall Shrul					
	Bigtooth Aspen	5	Log/Pole	11						-				
	Quaking Aspen	80	Pole/Log	9	47									
21						5.9 104	81-110	N/A		Nice natural red pine stand with some large diameter trees (20"+ DBH Some scattered areas of lower stocking. Areas of smaller spruce/fir al				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Specie	es Density	Avg. Height	Size	the west/northwest edge. Trace of cedar. Average ba/acre from 6 plots				
	Paper Birch	1	Pole	7		White Pine	Low	Variable	Sapling	85 square feet. Potential seed-tree treatment dropped at Pre-review d				
	Balsam Fir	2	Pole	6		Balsam Fir	Low	Variable	Sapling	success of nearby recent seed tree harvests to see how regenerat				
	Black Spruce	6	Pole	5		Black Spruce	Low	Variable	Sapling	responds and if a similar treatment should be prescribed for this stand				
	White Spruce	6	Log/Pole	10		White Spruce	Low	Variable	Sapling	the future.				
	Quaking Aspen	9	Log	13		Black Cherry	Trace	Variable	Tall Shrul					
	Red Maple	10	Log/Pole	10		Tag Alder	Trace	Variable	Tall Shrul					
	White Pine	11	Log/XLog	15		Ironwood	Trace	Variable	Sapling					
	Red Pine	55	Log/XLog	16	104									
22	4191 - Mixed Upla Co	and Decidu onifer	ous with Po	oletimb	er Well	Vell 10.0 82 81-110 N/A				Mixed species stand of moderate quality. Several areas of lower stock are present, more prevalent on the west side of the stand. A few small				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Specie	es Density	Avg. Height	Size	niclusions of mixed cedar and hemlock can be found along the weste edge. Trace of XL-sized red and white pine and log-sized bigtooth as				
No	orthern White Cedar	1	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling	Average ba/acre from 9 plots = 86 square feet. A small open area car				
	Hemlock	1	Log/Pole	11		White Spruce	Trace	Variable	Sapling	found at the far northeast corner of the stand.				
	Paper Birch	5	Log/Pole	10		Black Cherry	Low	Variable	Tall Shrul	This stand has not had a treatment before and was presumably left a				
	Quaking Aspen	12	Log	13						stream and river buffer to deter beavers when the A6 stand was cut				
	White Spruce	8	Log/Pole/XLog	12						(stand 20). It borders the Black River to the east, a large stream to the				
	Black Spruce	4	Pole/Log	8						south/southeast, a beaver pond to the southwest, and another stream the northwest side of the stand. The east side has some short, steep				
	Balsam Fir	22	Pole	7						slopes leading down to the lowland. I agree with this previous decis				
	Red Maple	47	Pole/Log	9	82					and recommend leaving this stand unmanaged for stream/river buffer purposes.				
23 42390 - Mixed Non-Pine Upland Conifers Poletimber We						3.2 84	141-170	N/A		Mostly upland stand with some wetter ground along the edges. Young				
	Canopy Species % Cover Size Cla		Size Class	DBH	Age	Sub-Canopy Specie	es Density	Avg. Height	Size	spruce and fir poletimber is more common at the east and west ends massive white pine in the stand, one is over 30 inches in DBH. Trace				
										🚽 massive winte pine in the stand, one is even so inches in DDH. Hat				

44

Pole/Log

9 84

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Black Spruce	Trace	Variable	Sapling
White Spruce	Trace	Variable	Sapling
Tag Alder	Trace	Variable	Tall Shrub

Mostly upland stand with some wetter ground along the edges. Younger spruce and fir poletimber is more common at the east and west ends. 2 massive white pine in the stand, one is over 30 inches in DBH. Trace of tamarack and hemlock. Average ba/acre from 4 plots = 120 square feet. An old road runs north/south at the west edge of the stand. Someone hunts at this spot and has cleared the road several hundred feet both ways as shooting lanes. There are also a few shooting lanes that extend east into the stand.

Northern White Cedar

6130 - Fir. Aspen, Maple

42290 - Natural Mixed Pine

6120 - Lowland Cedar

24

26

27

Report 7 - Stands

51-80

N/A

NI/A

N/A

Compartment: 45
Year of Entry: 2023



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

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	1	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Black Cherry	1	Pole	8		Black Spruce	Low	Variable	Sapling
Red Pine	1	Log/XLog	15		White Spruce	Low	Variable	Sapling
Tamarack	1	Log	12		White Pine	Low	Variable	Sapling
Quaking Aspen	14	Log/Pole	10		Red Oak	Trace	>20 feet	Sapling
Balsam Fir	20	Pole	6		Red Pine	Trace	Variable	Sapling
White Pine	2	Pole	6		Red Maple	Trace	>20 feet	Sapling
Black Spruce	5	Pole	6		Michigan Holly	Low	5 - 10 feet	Tall Shrub
White Spruce	28	Pole/Log	8	56	Tag Alder	Low	Variable	Tall Shruk
Red Maple	27	Pole/Log	8		Serviceberry (Juneberry)	Low	Variable	Tall Shruk

Poletimber Medium

Moderate quality mixed species stand, although still quite young with a lot of small conifer stems in some places. Tossup between upland or lowland as the ground alternates between seasonally wet areas and areas of drier ground. Not well-stocked in some places. Patches of younger timber in the southwest part of the stand. Trace of elm and red oak in the overstory. Average ba/acre from 5 plots = 68 square feet. This ground appears operable. Apply a treatment when the stand matures.

25	42210 - Natural Red Pine		ine	Sawtimber Medium		n 9.8	9.8 86		N/A	
	Canopy Species	% Cover	Size Clas	s DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size
	White Spruce	1	Pole/Log	g 8		Wh	ite Pine	Low	5 - 10 feet	Sapling
	Paper Birch	2	Pole/Log	g 8		Wh	ite Pine	Low	< 5 feet	Seeding
	White Pine	17	Log/XLo	g 15		Re	ed Pine	Low	< 5 feet	Seeding
	Red Pine	80	Log	15	86	Red	d Maple	Low	< 5 feet	Seeding

Sawtimber Well

Poletimber Medium

This stand was cut in the summer of 2018 in the sale Deadline Pine, #53-026-14-01, bought by Precision. Roundwood job and tops were chipped, although a few piles were left at the northern end of the stand. Very little residual damage, a moderate amount of scarification took place but not uniform throughout. Average residual ba/acre = 50 square feet. Some red and white pine seedlings are starting to show up in the stand, the red pine is still very small (<6" tall) at this point. Red maple stump sprouts are being heavily browsed. Give the regeneration more time to establish and evaluate again at next inventory cycle.

20	42290 - Nato	II al Mixed I III e		Sawtiiiibei Weii		11 1.0	30	01-110	IN/A	
	Canopy Species	% Cove	r Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size
	Paper Birch	2	Pole/Log	8		Wh	ite Pine	Medium	Variable	Sapling
	Bigtooth Aspen	11	Pole/Log	8		Blac	k Spruce	Trace	Variable	Sapling
	Quaking Aspen	2	Pole/Log	8		Whit	e Spruce	Trace	Variable	Sapling
	Balsam Fir	3	Pole	6		Re	ed Pine	Trace	Variable	Sapling
	Red Maple	11	Pole	7		Bal	sam Fir	Low	Variable	Sapling
	Red Oak	3	Log/XLog	14	91	Wite	ch Hazel	Low	10 - 20 feet	Tall Shrub
	White Pine	21	Log/Pole/XLo	g 11						
	Red Pine	47	Log/Pole/XLo	g 13	58					

7 0

4.1

50

106

Moderate quality mixed pine stand. There appears to be two age classes; younger pine that ranges anywhere from 7-14" DBH, and then an older age class that tends to be much larger, ranging from 15-20" DBH. Current age of 58 came from a 13" DBH red pine. Unsure of the harvest history of this stand but it's possible it had a partial harvest long ago. A variety of sizes of white pine are present, including a couple 20"+ trees along with a few nice patches of white pine regeneration. The central part of the stand sits on an elevated knob and is where most of the oak is located. A small camping spot is located in this area. The rest of the stand slopes gradually down to the east and south from this knob. Trace of black spruce, white spruce, and jack pine. Average ba/acre from 6 plots = 107 square feet.

41						
Can	opy Species	% Cove	r Size Class	DBH	Age	Sı
Bals	am Poplar	1	Log	11		
WI	nite Pine	1	Log/XLog	16		
Re	d Maple	10	Pole/Log	8		
Pa	per Birch	4	Pole/Log	8		
Whi	te Spruce	8	Pole/Log	8		
Ва	lsam Fir	5	Pole	6		
Blad	ck Spruce	2	Pole	7		
Northerr	White Cedar	69	Pole/Log	9	106	

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

51-80

81-110

Mostly a low quality, poorly-stocked stand with quite a bit of blowdown in the middle. Some areas of better quality and stocking along the east and west edges. There used to be a significant component of black ash in the stand but it is now all dead and fallen over. Trace of quaking aspen. Average ba/acre from 3 plots = 70 square feet. Wet stand, no management possible.

Pigeon River Country Mgt. Unit

Compartment: 45 Year of Entry: 2023



Stand	Level 4 C	over Type	s	ize De	nsity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments
28	42210 - Na	tural Red P	ine Sa	wtimb	er Poor	12.4	108	1-50	N/A		This stand was cut in the spring of 2018, but wasn't chipped until a year
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	later in the sale Deadline Pine, #53-026-14-01, bought by Precision. Very little residual damage and a moderate amount of scarification took place
	Bigtooth Aspen	1	Log	13		Bigto	oth Aspen	Medium	< 5 feet	Seeding	
	White Pine	25	Log/XLog	16		Bigto	oth Aspen	Low	5 - 10 feet	Sapling	of the stand, browse impacts are not too bad at this point. Red maple
	Red Pine	74	Log/XLog	15	108	WI	nite Pine	Low	Variable	Sapling	stump sprouts are being heavily browsed. Not much new pine regeneration has seeded in yet. A few small patches of advanced pine
						R	ed Pine	Trace	Variable	Sapling	regeneration were left during the harvest. Average residual ba/acre = 35
						WI	nite Pine	Low	< 5 feet	Seeding	
						Re	ed Maple	Low	< 5 feet	Seeding	the stand east of the road and adjacent to the swamp was left as retention.
29	4130	- Aspen	Po	letimb	er Well	8.8	46	141-170	N/A		Nice aspen stand with diameters that tend to vary, with some larger
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	sawlog stems (10-11") around the edges of the stand. A couple of large red and white pine are scattered throughout (20"+ DBH). Trace of
	Balsam Fir	4	Pole	7		Ва	lsam Fir	Medium	Variable	Sapling	ironwood and white spruce. Average ba/acre from 7 plots = 161 square
	White Pine	6	Log/Pole/XLog	13		WI	nite Pine	Low	Variable	Sapling	feet. Gently rolling terrain.
	Red Pine	5	Log/XLog/Pole	14		Re	ed Maple	Medium	< 5 feet	Sapling	
	Red Maple	5	Pole/Log	8		Blac	ck Cherry	Low	5 - 10 feet	Tall Shrub	
	Quaking Aspen	3	Pole/Log	9							
	Bigtooth Aspen	77	Pole	8	46						
30	429 - Mixed I	Jpland Cor	nifers Pole		Medium	n 6.8	46	51-80	N/A		Mixed species stand that is not very well-stocked. No sale records exist but it looks like this stand had a partial harvest, likely at the same time
	Canopy Species	% Cover			Age		nopy Species	Density	Avg. Height	Size	the aspen stand to the north was cut. White pine, spruce, and fir
Nor	rthern White Cedar	1	Log/Pole	11			llsam Fir	Medium	Variable	Sapling	comprise most of the younger age class, while red maple and large
	Bigtooth Aspen	3	Pole/Log	8			ck Spruce	Low	Variable	Sapling	diameter red and white pine make up the older age class. A few of the white pine are very large (30"+ DBH). Trace of quaking aspen. Average
	Paper Birch	2	Pole/Log	9		WI	nite Pine	Low	Variable	Sapling	ba/acre from 7 plots = 59 square feet. A small stream borders the
	Red Maple	28	Pole/Log	9	78						southern edge of the stand, just inside the northern edge of the swamp
	Black Spruce	10	Pole	7							conifer stand (#57).
	Balsam Fir	15	Pole	6							
	Red Pine	6	Log/XLog	15							
	White Pine	35	Pole/Log/XLog	8	46						
31	6120 - Lo	wland Ceda	ar Saw	timber	Medium	1 44.3	84	111-140	N/A		Generally high quality cedar however there is a ton of older blowdown,
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	which makes it very difficult to get through this stand. The west side is still largely intact but the remainder of the stand is a blowdown mess.
	Balsam Poplar	3	Log	14		Ва	lsam Fir	Trace	Variable	Sapling	Mostly barren understory except for a few patches of black ash, most of
	Balsam Fir	5	Pole	7		Bla	ack Ash	Medium	< 5 feet	Seeding	which are being held below 2 feet tall due to browse. Black ash also used
	Paper Birch	2	Pole/Log	8		Ta	ag Alder	Low	Variable	Tall Shrul	to be a component of the overstory but it is all dead. Heavy deer use throughout. Average ba/acre from 11 plots = 112 square feet. A large
	Red Maple	5	Log/Pole	10		Bla	ack Ash	Low	Variable	Sapling	stream flows east through the northern edge of the stand. Did not visit the
Nor	rthern White Cedar	84	Log/Pole	10	84						part of the stand east of the river. It looks from imagery like there may be
	Basswood	1	Log/XLog	14							some spruce mixed in on that side.

Report 7 - Stands



Stand	Level 4 C	over Type	s	ize De	ensity	Acres	Stand Age I	BA Range	Managed \$	Site	General Comments
32	6220 - A	lder/willow	!	Nonst	ocked	9.2	0 ι	Inspecified	No		Sparsely-stocked conifers with a full coverage of alder throughout. The
					Г	Sub-Ca	nopy Species	Density	Avg. Height	Size	northern end has a small clump of balsam poplar. Cedar is mostly near the river. This stand is lowland but many areas of the stand are not too
						Whi	te Spruce	Trace	>20 feet	Log	wet.
						Ва	lsam Fir	Low	>20 feet	Pole	
						Ва	lsam Fir	Trace	>20 feet	Log	
						Ва	Isam Fir	Low	Variable	Sapling	
						Bals	am Poplar	Low	Variable	Sapling	
						Bals	am Poplar	Low	>20 feet	Pole	
						Northern	n White Cedar	Low	>20 feet	Log	
						Ta	amarack	Trace	>20 feet	Log	
						Blad	ck Spruce	Trace	>20 feet	Pole	
33	6120 - Lo	wland Ceda	ar Po	oletimb	er Poor	494.1	119	1-50	N/A		The majority of this stand is very wet, poorly-stocked, and very difficult to
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	get through due to the thick lowland shrub layer. The cedar is small and stunted with many stems in decline, and a lot has blown over throughout
	Paper Birch	1	Pole	5		Ва	lsam Fir	Low	Variable	Sapling	the years. Trace of elm, white spruce, BAM, and quaking aspen. Average
	Red Maple	1	Pole	6		Blad	ck Spruce	Trace	Variable	Sapling	ba/acre from 14 plots = 39 square feet. Did not look at much of this stand
	Tamarack	4	Pole/Log	8		BI	ack Ash	Trace	Variable	Sapling	other than when passing through to get to and from stand 34. No reason to visit this stand again for many years.
	Black Spruce	20	Pole	6		Pa	per Birch	Trace	>20 feet	Sapling	to not and stand again for many yours.
	Balsam Fir	9	Pole/Sapling	5		Mich	igan Holly	Low	5 - 10 feet	Tall Shruk	
Nort	thern White Cedar	65	Pole/Sapling	6	119	Red Os	sier Dogwood	Medium	< 5 feet	Tall Shruk	
						Ta	ag Alder	Full	10 - 20 feet	Tall Shruk	
						Wi	llow spp.	Low	Variable	Tall Shruk	
34	6121 -	Tamarack	Po	oletimb	er Well	93.7	90	81-110	N/A		Moderate quality tamarack stand. Most of the tamarack is healthy. Wet,
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	hummocky ground throughout. Stocking varies somewhat with some areas that are not as well-stocked as others. Average ba/acre from 8
	Tamarack	69	Pole/Log	9	90	Ва	lsam Fir	Low	Variable	Sapling	plots = 101 square feet. Elk sign in areas. Did not visit the northern 1/3rd
	Black Spruce	8	Pole	6		Blad	ck Spruce	Trace	Variable	Sapling	of the stand.
	Balsam Fir	2	Pole	5		Pa	per Birch	Trace	>20 feet	Sapling	
Nort	thern White Cedar	20	Pole	7		Ta	ag Alder	High	Variable	Tall Shruk	
	White Pine	1	Log	15							



Stand	Level 4 C	, ,		Size Density		Acres Stand Age I	BA Range	Managed	Site	General Comments
35	6220 - A	lder/willow		Nonst	ocked	22.7 l	Jnspecified	No		Thick alder stand that is not overly wet in all areas. The north half in
						Sub-Canopy Species	Density	Avg. Height	Size	particular has some areas of drier ground. The south half of the stand looks like it has several drainages passing through (visible from imagery)
						Northern White Cedar	Low	>20 feet	Log	Scattered clumps of trees, mostly along the east edge of the stand.
						Balsam Fir	Low	>20 feet	Pole	Cedar is mostly along the west side of the stand in the north half,
						Balsam Fir	Low	Variable	Sapling	adjacent to the Black River. A few very old roads are evident from imagery. One travels north through the northern half of the stand, the
						Black Spruce	Trace	>20 feet	Pole	other goes east/west through the central part of the stand. Both are now
						Tamarack	Trace	>20 feet	Pole	mostly filled in with alder.
						Black Spruce	Trace	Variable	Sapling	
						Tamarack	Trace	Variable	Sapling	
						Black Ash	Trace	Variable	Sapling	
						Black Cherry	Low	>20 feet	Pole	
						Black Cherry	Low	Variable	Tall Shrub	
						Tag Alder	Full	10 - 20 feet	Tall Shrub	
36	4191 - Mixed Upla Co	and Decidu	ous with S	Sawtimb	er Poor	1.7 84	1-50	N/A		Poorly-stocked mixed species stand. The northern 1/3rd of the stand is lowland while the remainder of the stand is upland. There are a couple of
C	anopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	alive ash poletimber stems in the north half and I think they are green ash. Average ba/acre from 3 plots = 27 square feet.
	Green Ash	1	Pole	6		Balsam Fir	Low	Variable	Sapling	ash. Average baracre nom 3 plots = 21 square reet.
E	Black Cherry	3	Pole	5		White Spruce	Trace	Variable	Sapling	
Q	uaking Aspen	18	Log/Pole	12		Red Maple	Trace	Variable	Sapling	
	Balsam Fir	21	Pole/Log	8		Black Cherry	Medium	Variable	Tall Shrub	
V	Vhite Spruce	13	Log/Pole	12		Tag Alder	Medium	10 - 20 feet	Tall Shrub	
	Red Maple	14	Pole/Log	8						
37	6124 - Lowla	and Spruce	-Fir P	oletimb	er Well	2.0 28	51-80	N/A		Old cedar cut that regenerated to mixed conifers. No cedar regeneration
C	anopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	present. A few residual cedar are scattered throughout. Average ba/acre from 3 plots = 80 square feet.
	alsam Poplar	2	Sapling/Pole			Tag Alder	Low	Variable	Tall Shrub	
	Paper Birch	3	Sapling/Pole	3		Balsam Fir	Low	5 - 10 feet	Sapling	
	ern White Cedar	10	Pole/Log	8					. 0	1
	Tamarack	25	Pole/Sapling							
Е	Black Spruce	14	Pole/Sapling							
	Balsam Fir	46	Sapling/Pole	4	28					
38 6	3129 - Mixed Conif	erous Lowla	and Forest Pol	letimbe	r Mediur	n 4.0 28	1-50	N/A		Old cedar cut, no cedar regeneration evident. Very wet stand. A small
C	anopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	stream flows east through the southern end of the stand. Several other wet areas that appear to be drainages are also present. Nice paper birch
В	alsam Poplar	2	Sapling/Pole	4		Tag Alder	High	10 - 20 feet	Tall Shrub	component in some places. Trace of elm saplings.
	Paper Birch	17	Sapling/Pole	4		Balsam Fir	Medium	5 - 10 feet	Sapling	
	Balsam Fir	40	Sapling/Pole	4		Balsam Poplar	Low	5 - 10 feet	Sapling	
										⊥

Report 7 - Stands

Compartment: 45 Year of Entry: 2023



Stand	Level 4 C	over Type		Size Density	Acres	Stand Age B	BA Range	Managed S	Site	General Comments
39	6120 - Lo	wland Ceda	ar F	Poletimber Well	6.9	119	141-170	N/A		Moderate quality cedar stand with some variability in species composition
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	along the south edge. Lots of blowdown in the east half of the stand,
	Balsam Poplar	1	Log/Pole	11		Isam Fir	Low	Variable	Sapling	enough that you can't walk through it. Most cedar that is standing is healthy. Dense stocking in the west/northwest part of the stand without
	Quaking Aspen	12	Log/XLog	15	BI	ack Ash	Low	Variable	Sapling	much understory development. Southern edge transitions to upland with
	Paper Birch	5	Pole/Log	8	Blad	ck Spruce	Trace	Variable	Sapling	some aspen/birch/red maple mixed in. A few seeps are present along this transitional zone and seem to drain east through the stand. Average
	Black Spruce	9	Pole	7	Ta	ag Alder	Medium	10 - 20 feet	Tall Shrub	
	Red Maple	2	Log/Pole	11						throughout most of the stand.
	Balsam Fir	12	Pole	7						
No	rthern White Cedar	59	Pole/Log	8 119						
40	4110 - Sugar N	/laple Asso	ciation F	Poletimber Well	4.0	91	81-110	N/A		Moderate quality hardwood stand. The north half has lower BAs and
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	more aspen mixed in. The south half has better quality and higher BAs. Trace of red maple and BAM. Average ba/acre from 3 plots = 95 square
	Ironwood	4	Pole	6	Ire	onwood	Medium	Variable	Sapling	feet. A large pit is present in the middle of the stand with some old
	Quaking Aspen	2	Log	13	I	Beech	Low	Variable	Sapling	concrete remnants in places. Not sure of the history of this location and
	Bigtooth Aspen	9	Log	14	Lea	therwood	Low	< 5 feet	Tall Shrub	whether there used to be a structure here or if it is just an old borrow pit?
	Paper Birch	4	Pole/Log	9						
	Basswood	13	Log/Pole	14						
	Sugar Maple	68	Pole/Log	8 91						
41	4130	- Aspen	Ş	Sawtimber Well	2.7	51	81-110	N/A		Small aspen stand that has a component of larger, older trees mixed in.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	The bigtooth component is mostly in a clone in the middle of the stand. The north end transitions to more red maple and birch, with some large
	White Ash	1	Pole	5	Ire	onwood	Medium	Variable	Sapling	diameter quaking aspen mixed in. The ground becomes wetter at the
	Sugar Maple	2	Pole/Log	8	W	hite Ash	Medium	Variable	Sapling	north end. Ash is mostly at this northern end as well and there are some
	Red Maple	12	Log/Pole	12	l	Beech	Low	Variable	Sapling	poletimber stems that appear alive. A small seep and drainage is present at the south end. Average ba/acre from 4 plots = 98 square feet. No sale
	Paper Birch	10	Pole/Log	9						records available for this stand but this was obviously cut at one time.
	Bigtooth Aspen	25	Log/Pole	12						Stand age came from a 12" aspen.
	Quaking Aspen	50	Log/Pole/XLo	g 12 51						
42	42390 - Mixed Non	-Pine Uplar	nd Conifers Sa	wtimber Medium	1 4.9	84	81-110	N/A		Mostly an upland stand with some wetter ground along the edges. Some
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	areas of lower stocking in the middle of the stand. More red maple in the east half of the stand, more fir and spruce poletimber in the west half.
	Quaking Aspen	1	Log	12	Ва	lsam Fir	Low	Variable	Sapling	Average ba/acre from 5 plots = 98 square feet. Someone makes the
	Balsam Poplar	2	Pole/Log	9	Whi	te Spruce	Trace	Variable	Sapling	effort to deer hunt in this stand as there is a chair at the northeast end.
	Paper Birch	3	Pole/Log	9	Ta	ag Alder	Low	Variable	Tall Shrub	
	White Spruce	1	Log/XLog	14	Bla	ck Cherry	Trace	Variable	Tall Shrub	
	Black Spruce	3	Pole	7	Re	d Maple	Trace	Variable	Sapling	
	Balsam Fir	21	Pole	7						•
	Black Cherry	1	Pole	6						
	Red Maple	20	Log/Pole	13						

Northern White Cedar

48

Log/Pole

10 84



Stand	Level 4 Co	over Type	Si	ize De	nsity	Acres Stand Age I	BA Range	Managed S	Site	General Comments
43	6139 - Mixed	Lowland Fo	orest Sa	pling N	/ledium	9.2 20	1-50	N/A		Thick black ash regeneration in many places with a sparse amount of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	larger cedar and fir mixed in throughout. Ash regeneration is most abundant in the north half of the stand. The south half of the stand has a
	Paper Birch	2	Pole/Log	8		Tag Alder	High	10 - 20 feet	Tall Shruk	thick alder component and fewer black ash saplings. The larger overstory
	Red Maple	2	Pole/Log	8		Nannyberry	Low	5 - 10 feet	Tall Shrub	trees tend to be in clumps, with cedar more common closer to the river.
	Black Spruce	2	Pole	7						Recent beaver activity in many areas. Trace of elm and tamarack. Average ba/acre of the larger overstory trees = 20 square feet. Did not
	Balsam Fir	29	Pole/Sap/Log	5						visit the southern 1/4 of the stand.
No	rthern White Cedar	15	Log/Pole	11	119					
	Black Ash	50	Sapling	2	20					
44	622 - Low	vland Shrub) 1	Nonsto	cked	7.0 L	Inspecified	No		Alder mixed w/conifer and some deciduous. Observed from western boundary, appeared very similar to Stand 48 to south. Black River along
						Sub-Canopy Species	Density	Avg. Height	Size	portions of east boundary.
						Tag Alder	High	10 - 20 feet	Tall Shrub	
						Balsam Fir	Medium	10 - 20 feet	Sapling	
						Black Willow	Low	>20 feet	Log	
						Quaking Aspen	Low	10 - 20 feet	Sapling	
						Balsam Fir	Medium	>20 feet	Pole	
45	4130	- Aspen	Sa	wtimbe	er Well	3.4 70	51-80	N/A		OPIC - FMD: STAND WAS CUT WHILE UNDER PRIVATE
45	4130 Canopy Species	- Aspen % Cover			er Well	3.4 70 Sub-Canopy Species		N/A Avg. Height	Size	OWNERSHIP.
45		<u>'</u>		DBH					Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders
45	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some
45	Canopy Species Quaking Aspen	% Cover 80 6	Size Class Log/Pole	DBH	Age	Sub-Canopy Species Black Ash	Density Medium	Avg. Height >20 feet	Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders
45	Canopy Species Quaking Aspen Bigtooth Aspen	% Cover 80 6	Size Class Log/Pole Log/Pole	DBH 12 13	Age	Sub-Canopy Species Black Ash Red Maple	Density Medium Low	Avg. Height >20 feet >20 feet	Sapling Sapling Sapling Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders
45	Canopy Species Quaking Aspen Bigtooth Aspen Red Maple	% Cover 80 6 4	Size Class Log/Pole Log/Pole Log/XLog/Pole Pole Log/Pole	12 13 12	Age	Sub-Canopy Species Black Ash Red Maple Ironwood	Density Medium Low Medium	>20 feet >20 feet 10 - 20 feet	Sapling Sapling Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders
45	Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Balsam Fir	% Cover 80 6 4 4	Size Class Log/Pole Log/Pole Log/XLog/Pole Pole	12 13 12 7	Age	Sub-Canopy Species Black Ash Red Maple Ironwood Beech	Density Medium Low Medium Low	Avg. Height >20 feet >20 feet 10 - 20 feet 5 - 10 feet	Sapling Sapling Sapling Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders
45	Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Balsam Fir White Ash Sugar Maple	% Cover 80 6 4 4 4	Size Class Log/Pole Log/Pole Log/XLog/Pole Pole Log/Pole Pole/Log	12 13 12 7 10 9	Age	Sub-Canopy Species Black Ash Red Maple Ironwood Beech Black Cherry White Spruce	Density Medium Low Medium Low Low Low	>20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders transitional/lower ground. BA swings= 70,50,60 (60avg) McDonald '11: Stand Year Origin was 1986
	Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Balsam Fir White Ash Sugar Maple	% Cover 80 6 4 4 4 2 2 wland Aspe	Size Class Log/Pole Log/Pole Log/XLog/Pole Pole Log/Pole Pole/Log	DBH 12 13 12 7 10 9	Age 70	Sub-Canopy Species Black Ash Red Maple Ironwood Beech Black Cherry White Spruce	Density Medium Low Medium Low Low Trace	Avg. Height >20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders transitional/lower ground. BA swings= 70,50,60 (60avg) McDonald '11: Stand Year Origin was 1986 JSP '21: Primarily QA/BAM mixed w/conifer. A lot of alder/blkash in the
	Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Balsam Fir White Ash Sugar Maple	% Cover 80 6 4 4 4 2 2 wland Aspe	Size Class Log/Pole Log/Pole Log/XLog/Pole Pole Log/Pole Pole/Log n Pole	DBH 12 13 12 7 10 9	Age 70 70 Mediur	Sub-Canopy Species Black Ash Red Maple Ironwood Beech Black Cherry White Spruce	Density Medium Low Medium Low Low Trace	Avg. Height >20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet N/A	Sapling Sapling Sapling Sapling Sapling Sapling Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders transitional/lower ground. BA swings= 70,50,60 (60avg) McDonald '11: Stand Year Origin was 1986 JSP '21: Primarily QA/BAM mixed w/conifer. A lot of alder/blkash in the sub-canopy. Some areas were quite wet, then areas dry that still have alder in sub-canopy. Old grown-over forest rd in this stand, travels south
	Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Balsam Fir White Ash Sugar Maple 6112 - Lov Canopy Species	% Cover 80 6 4 4 4 2 wland Aspe	Size Class Log/Pole Log/XLog/Pole Pole Log/Pole Pole/Log n Pole Size Class	DBH 12 13 12 7 10 9 ttimber	Age 70 Mediur	Sub-Canopy Species Black Ash Red Maple Ironwood Beech Black Cherry White Spruce m 3.3 35 Sub-Canopy Species	Density Medium Low Medium Low Low Trace 81-110 Density	Avg. Height >20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet N/A Avg. Height	Sapling Sapling Sapling Sapling Sapling Sapling Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders transitional/lower ground. BA swings= 70,50,60 (60avg) McDonald '11: Stand Year Origin was 1986 JSP '21: Primarily QA/BAM mixed w/conifer. A lot of alder/blkash in the sub-canopy. Some areas were quite wet, then areas dry that still have
46	Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Balsam Fir White Ash Sugar Maple 6112 - Lov Canopy Species Quaking Aspen	% Cover 80 6 4 4 4 2 2 wland Aspe 65	Size Class Log/Pole Log/XLog/Pole Pole Log/Pole Pole/Log n Pole Size Class Pole/Log/Sap	DBH 12 13 12 7 10 9 stimber DBH 7	Age 70 Mediur	Sub-Canopy Species Black Ash Red Maple Ironwood Beech Black Cherry White Spruce m 3.3 35 Sub-Canopy Species Balsam Fir	Density Medium Low Medium Low Low Trace 81-110 Density Low	Avg. Height >20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet V/A Avg. Height Variable	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders transitional/lower ground. BA swings= 70,50,60 (60avg) McDonald '11: Stand Year Origin was 1986 JSP '21: Primarily QA/BAM mixed w/conifer. A lot of alder/blkash in the sub-canopy. Some areas were quite wet, then areas dry that still have alder in sub-canopy. Old grown-over forest rd in this stand, travels south
46	Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Balsam Fir White Ash Sugar Maple 6112 - Lov Canopy Species Quaking Aspen White Spruce	% Cover 80 6 4 4 4 2 2 wland Aspe 65 4	Size Class Log/Pole Log/Pole Log/XLog/Pole Pole Log/Pole Pole/Log n Pole Size Class Pole/Log/Sap Log/XLog	DBH 12 13 12 7 10 9 ttimber DBH 7 15	Age 70 Mediur	Sub-Canopy Species Black Ash Red Maple Ironwood Beech Black Cherry White Spruce m 3.3 35 Sub-Canopy Species Balsam Fir Black Ash	Density Medium Low Medium Low Low Trace 81-110 Density Low Medium	Avg. Height >20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet V/A Avg. Height Variable >20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders transitional/lower ground. BA swings= 70,50,60 (60avg) McDonald '11: Stand Year Origin was 1986 JSP '21: Primarily QA/BAM mixed w/conifer. A lot of alder/blkash in the sub-canopy. Some areas were quite wet, then areas dry that still have alder in sub-canopy. Old grown-over forest rd in this stand, travels south
46	Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Balsam Fir White Ash Sugar Maple 6112 - Lov Canopy Species Quaking Aspen White Spruce rthern White Cedar	% Cover 80 6 4 4 2 wland Aspe % Cover 65 4 5	Size Class Log/Pole Log/Pole Pole Log/Pole Pole/Log n Pole Size Class Pole/Log/Sap Log/XLog Log/Pole	DBH 12 13 12 7 10 9 ttimber DBH 7 15 11	Age 70 Mediur	Sub-Canopy Species Black Ash Red Maple Ironwood Beech Black Cherry White Spruce m 3.3 35 Sub-Canopy Species Balsam Fir Black Ash Red Oak	Density Medium Low Medium Low Low Trace 81-110 Density Low Medium Trace	Avg. Height >20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet V/A Avg. Height Variable >20 feet >20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders transitional/lower ground. BA swings= 70,50,60 (60avg) McDonald '11: Stand Year Origin was 1986 JSP '21: Primarily QA/BAM mixed w/conifer. A lot of alder/blkash in the sub-canopy. Some areas were quite wet, then areas dry that still have alder in sub-canopy. Old grown-over forest rd in this stand, travels south
46	Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Balsam Fir White Ash Sugar Maple 6112 - Lov Canopy Species Quaking Aspen White Spruce rthern White Cedar Balsam Poplar	% Cover 80 6 4 4 2 wland Aspe % Cover 65 4 5 10	Size Class Log/Pole Log/Pole Pole Log/Pole Pole/Log n Pole Size Class Pole/Log/Sap Log/XLog Log/Pole Pole/Sapling	DBH 12 13 12 7 10 9 stimber DBH 7 15 11 6	Age 70 Mediur	Sub-Canopy Species Black Ash Red Maple Ironwood Beech Black Cherry White Spruce m 3.3 35 Sub-Canopy Species Balsam Fir Black Ash Red Oak Balsam Poplar	Density Medium Low Medium Low Low Trace 81-110 Density Low Medium Trace Medium	Avg. Height >20 feet >20 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet 10 - 20 feet V/A Avg. Height Variable >20 feet >20 feet 10 - 20 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling Sapling Sapling Sapling	OWNERSHIP. JSP '21: QA w/limited components of northern hardwood and some conifer. Overall lower stocking/density. East boundary boarders transitional/lower ground. BA swings= 70,50,60 (60avg) McDonald '11: Stand Year Origin was 1986 JSP '21: Primarily QA/BAM mixed w/conifer. A lot of alder/blkash in the sub-canopy. Some areas were quite wet, then areas dry that still have alder in sub-canopy. Old grown-over forest rd in this stand, travels south into Stand 47. BA swings= 100,70 (85avg)



Stand	Level 4 Co	Si	ze De	nsity	Acres Stand Age	BA Range	Managed	Site	General Comments	
47	4130	- Aspen	Sa	wtimb	er Well	6.7 70	81-110	N/A		McDonald '11: Year Origin was 1930
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Speci	ies Density	Avg. Height	Size	JSP '21: Aspen mixing with a limited amount of other deciduous/conifer More/less a log sized stand, diameters taper/decrease in east, as the
	Quaking Aspen	60	Log/Pole	12	70	White Ash	High	Variable	Sapling	boundary approaches low ground. Small clump of L/P NWC in NW and
	Balsam Fir	6	Pole/Log	8		Red Maple	Medium	>20 feet	Sapling	small component of xlog/log RM present. The few white ash in the
	Bigtooth Aspen	14	Log/Pole/XLog	12		Ironwood	Medium	10 - 20 feet	Sapling	canopy were still alive (dead logs on adjacent PVT). Intermittent/seaso seep with flowing water present near center of stand, just south of Star
	Ironwood	4	Pole	7		Beech	Low	Variable	Sapling	405 (OFS point taken). BA swings= 110,110,130,70 (105avg)
	Basswood	4	Log/Pole	11		Leatherwood	Low	< 5 feet	Tall Shruk	1
	White Ash	4	Pole/Log	8		Tag Alder	Low	10 - 20 feet	Tall Shrub	
No	rthern White Cedar	2	Log/Pole	10						1
	Paper Birch	4	Pole/Log	9						
	Red Maple	2	XLog/Log	20						
48	622 - Low	/land Shrub	1 c	Nonsto	cked	9.5	Unspecified	No		Alder mixed w/conifer and some deciduous. Observed from southern a
						Sub-Canopy Speci	ies Density	Avg. Height	Size	western edge. Very obvious beaver activity, new and old. Wet/mucky soils.
						Tag Alder	High	10 - 20 feet	Tall Shrub	
						Balsam Fir	Medium	10 - 20 feet	Sapling	
						Black Willow	Low	>20 feet	Log	
						Quaking Aspen	Low	10 - 20 feet	Sapling	
						Balsam Fir	Medium	>20 feet	Pole	
49	6229 - Mixed	l lowland sl	nrub 1	Nonsto	ocked	6.6	Unspecified	No		Unable to visit during the day spent in this area. Previous examiner typ it as a 'swamp'. Black River travels through the stand. Imagery show mortality and lowland shrub.
50	4136 - Aspen				er Well	7.1 47	81-110	N/A		McDonald '11: Stand Year Origin was 1974 JSP '21: A6 (Q6 in areas) in transition to A9. Saturated ground in area
	Canopy Species		Size Class	_	l Age	Sub-Canopy Speci		Avg. Height	Size	pools/ponded water observed. Sub-canopy BF component generally
	Quaking Aspen	64	Pole/Log/Sap	9	47	Balsam Fir	Medium	10 - 20 feet	Sapling	consistent, is 'high' in areas. Clumps of NWC/some spruce present,
	Balsam Fir	10	Pole/Sap/Log	6		Black Ash	Medium	>20 feet	Sapling	appear to of been 'skipped' during harvest/habitat cut. Fairly obvious browse line present. BA swings= 110,120,50,120 (100avg)
	DII- A -I-	3	Pole/Sapling	6		Black Cherry	Low	10 - 20 feet	Sapling	browse line present. BA swings= 110,120,50,120 (100avg)
	Black Ash									
	Red Maple	4	Log/Pole/XLog	12		Black Spruce	Low	< 5 feet	Seeding	
			Log/Pole/XLog Log/Pole/XLog			Black Spruce Tag Alder	Low Medium	10 - 20 feet	Seeding Tall Shruk	
	Red Maple	4		12		· · · · · · · · · · · · · · · · · · ·				
No	Red Maple Balsam Poplar	4 6	Log/Pole/XLog	12 11		· · · · · · · · · · · · · · · · · · ·				
No	Red Maple Balsam Poplar White Spruce	4 6 3	Log/Pole/XLog Log/Pole/XLog	12 11 15		· · · · · · · · · · · · · · · · · · ·				
No	Red Maple Balsam Poplar White Spruce rthern White Cedar	4 6 3 4	Log/Pole/XLog Log/Pole/XLog Log/Pole	12 11 15 11		· · · · · · · · · · · · · · · · · · ·				
	Red Maple Balsam Poplar White Spruce rthern White Cedar Paper Birch Black Spruce	4 6 3 4 3	Log/Pole/XLog Log/Pole/XLog Log/Pole Pole Pole Pole/Log	12 11 15 11 9	ocked	· · · · · · · · · · · · · · · · · · ·				Only looked at the edge. Imagery shows a sparse canopy of conifers v
	Red Maple Balsam Poplar White Spruce rthern White Cedar Paper Birch Black Spruce	4 6 3 4 3 3	Log/Pole/XLog Log/Pole/XLog Log/Pole Pole Pole Pole/Log	12 11 15 11 9	ocked	Tag Alder	Medium	10 - 20 feet		
	Red Maple Balsam Poplar White Spruce rthern White Cedar Paper Birch Black Spruce	4 6 3 4 3 3	Log/Pole/XLog Log/Pole/XLog Log/Pole Pole Pole Pole/Log	12 11 15 11 9	ocked	Tag Alder	Medium	10 - 20 feet	Tall Shrub	Only looked at the edge. Imagery shows a sparse canopy of conifers v
No.	Red Maple Balsam Poplar White Spruce rthern White Cedar Paper Birch Black Spruce	4 6 3 4 3 3	Log/Pole/XLog Log/Pole/XLog Log/Pole Pole Pole Pole/Log	12 11 15 11 9	ocked	Tag Alder 16.4 0 Sub-Canopy Speci	Unspecified ies Density	No Avg. Height	Tall Shruk	Only looked at the edge. Imagery shows a sparse canopy of conifers v



Stand	Level 4 Co	over Type	Si	ize De	ensity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
52	42200 - Natu	ral White I	Pine Sa	wtimb	er Well	7.8	91	141-170	N/A		High quality white pine stand that is part of a larger upland island with adjacent stands to the south. The east half of the stand has areas of very
	Canopy Species	% Cover	Size Class	DBH	l Age						high white pine stocking with a minimal understory. The spruce/fir
	Hemlock	1	Pole/Log	8							component picks up in abundance in the west half of the stand.
No	rthern White Cedar	2	Pole/Log	8							Hardwoods, as well as some cedar and hemlock, are more prevalent at the south end. A lot of the hemlock has been killed by porcupines.
	Paper Birch	2	Pole/Log	8							Average ba/acre from 7 plots = 159 square feet. An active goshawk nest
	Balsam Fir	4	Pole/Log	8							is in the northern part of the stand.
	Black Spruce	10	Pole/Sap/Log	7							
	Red Maple	16	Log/Pole	11							
	White Pine	65	Log/XLog	14	91						
53	6220 - A	lder/willow	1	Nonst	ocked	70.4	0	Unspecified	No		Only looked at the edge. Imagery shows only a sparse coverage of trees
						Sub-Ca	nopy Specie	es Density	/ Avg. Height	Size	which are likely spruce, fir, and cedar. A stream flows through the southwestern portion of the stand.
						Blad	ck Spruce	Low	Variable	Sapling	Southwestern period of the stand.
						Blac	ck Spruce	Low	>20 feet	Pole	
						Ва	lsam Fir	Trace	Variable	Sapling	
						Ва	lsam Fir	Trace	>20 feet	Pole	
						Northern	n White Ceda	ar Trace	>20 feet	Pole	
						Ta	ag Alder	Full	5 - 10 feet	Tall Shrub	
54	42210 - Nat	ural Red P	ine Sa	wtimb	er Well	6.1	52	111-140	N/A		This appears to be a natural red pine stand as rows are mostly non-
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	es Density	/ Avg. Height	Size	existent and planting records don't exist for this section. A variety of red pine sizes are present and it looks like there are two age classes present
	Bigtooth Aspen	8	Pole	7		W	hite Pine	Mediur	n Variable	Sapling	including a much larger, older set of trees that range anywhere from 15-
	Quaking Aspen	5	Pole	7							20" DBH. Stocking is somewhat sporadic as there are some areas of
	Jack Pine	7	Pole	7							lower stocking, more so in the south half of the stand. Jack pine is mostly along the road edge, although a lot of it has died. Middle part of the stand
	White Pine	12	Pole/Log	8							is on an elevated knob with slopes running down to the north, east, and
	Red Pine	62	Log/Pole/XLog	11	52						south. Average ba/acre from 6 plots = 112 square feet. Potential seed-
	Red Oak	2	Log/XLog	15							tree treatment dropped at Pre-review due to rarity of unmanaged natural red pine stands. Next entry, observe the success of nearby recent seed
	Red Maple	4	Pole	7							tree harvests to see how regeneration responds and if a similar treatment should be prescribed for this stand in the future.
55	42210 - Nati	ural Red P	rine Sa	wtimb	er Well	5.6	72	111-140	N/A		Small inclusion of red pine. A few areas look like they were planted, but
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	es Density	/ Avg. Height	Size	not all. No planting records exist for this section. A variety of red pine diameters are present including some older, larger trees. Current age of
	Jack Pine	2	Pole	6			hite Pine	Mediur		Sapling	
	Bigtooth Aspen	11	Pole/Sapling	6	46			1	1	1	dedges. The east side of the stand is poorly-stocked with some open
	White Pine	9	Pole/Log/XLog	8							areas. There used to be more jack pine in this area but most of it has died. The northeast end of the stand is on an elevated knob. Old, fire
	Red Pine	68	Log/Pole/XLog	13	72						charred pine stumps are common throughout. Trace of paper birch.
	Red Oak	3	Log/XLog	15							Average ba/acre from 5 plots = 132 square feet. Potential seed-tree
	Red Maple	7	Pole	6							treatment dropped at Pre-review due to rarity of unmanaged natural red pine stands. Next entry, observe the success of nearby recent seed tree
											harvests to see how regeneration responds and if a similar treatment should be prescribed for this stand in the future.



Stand Le	vel 4 Co	over Type	S	Size De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
56 61.	20 - Lov	wland Ceda	ar Po	oletimb	er Well	61.0	107	171-200	N/A		Only looked at the part of the stand west of the river. The west side is
Canopy Spe	ecies	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	mostly high quality cedar but there is some decline at the north end. Imagery shows that most of the stand east of the river is in decline.
Black Sprud	e	2	Pole	7		Ва	ılsam Fir	Low	Variable	Sapling	Dense stocking with a barren, park-like understory through most of the
Balsam Fi	r	8	Pole/Log	8		Ta	ag Alder	Low	Variable	Tall Shrub	areas I walked through. Evidence of high deer use and this is likely a
Northern White	Cedar	90	Pole/Log	9	107		-		1	-	deer yard in the winter. Some areas of blowdown close to the rivers edger Trace of white spruce, paper birch, white pine, and balsam poplar in the
57 61	 20 - Lov	wland Ceda	ar Po	oletimb	er Well	233.7	107	81-110	N/A		overstory. Average ba/acre from 7 plots = 186 square feet. Some cedar cutting took place in the narrow, southern part of the stand many years ago. An old road runs through this narrow area as well, ending at a small opening that is now filled in with mostly alder and fir. Just north of stand 37 along the old road is an abandoned ground blind with some trash scattered around. Wet lowland conifer stand. The cedar is generally low quality and small
Canopy Spe	ecies	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	diameter, with the exception of some nice groves at the southern end of
Paper Birch		1	Pole/Log	8	1.90		Isam Fir	Medium	Variable	Sapling	the stand. The majority of the cedar is healthy although there are some large areas of decline in the wettest areas of the stand (see IR imagery)
Black Sprud		10	Pole	7		Blad	ck Spruce	Low	Variable	Sapling	Tamarack displays the best growth and quality on this site. Trace of whi
Balsam Fi		10	Pole	7			ag Alder	Medium	Variable	Tall Shrub	pine, red maple, white spruce, and balsam poplar. Average ba/acre from
Tamarack		29	Pole/Log	8		Pa	per Birch	Trace	>20 feet	Sapling	17 plots = 103 square feet. At least two streams pass through the stand one at the north end and one at the south end, but there are additional
Northern White	Cedar	50	Pole/Log	8	107		-				small drainages mixed in throughout. Too wet to harvest any portion of this stand.
58 61	16 - Lo	wland Birch	n Pole	etimbei	r Medium	n 2.6	38	51-80	N/A		Old cedar cut that came back moderately well to birch. No cedar
Canopy Spe	ecies	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	regeneration evident. Average ba/acre from 4 plots = 63 square feet. A wet drainage flows west to east along the northern edge of the stand,
Northern White	Cedar	1	Log	12		Ва	ılsam Fir	Low	Variable	Sapling	bordering the south side of the road.
Balsam Fi	r	16	Pole/Sapling	5		Pa	per Birch	Low	>20 feet	Sapling	
Red Maple)	7	Pole	6		BI	ack Ash	Trace	Variable	Sapling	
Paper Bircl	h	76	Pole/Sapling	6	38	Blad	ck Spruce	Trace	Variable	Sapling	
						Wi	llow spp.	Low	>20 feet	Tall Shrub	
						Ta	ag Alder	High	10 - 20 feet	Tall Shrub	
						Wild Re	ed Raspberry	High	< 5 feet	Tall Shrub	
59 310 -	Herbac	eous Open	land	Nonsto	ocked	2.7	U	nspecified	No		Grassy opening that has not been managed as a food plot. One apple tree is present in the middle of the stand. Knapweed mixed in throughou Did not look at the northern bubble of the stand but from imagery it look like that area may be seasonally wet. A road passes through the west

side of the stand, leading to a gate at the private property line.



Stand	Level 4 Co	over Type	S	ize De	nsity	Acres Stand Age	BA Range	Managed S	Site	General Comments
61	6120 - Lov	wland Ceda	ar Po	letimb	er Well	40.7 119	111-140	N/A		McDonald '11: Stand Year Origin was 1902JSP '21: Didn't see all of this stand, did see the area north and west of Stand 50. NWC dominant
(Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Spec	es Density	Avg. Height	Size	where I was, with fir mixing in. Some blksprc and PB too. Appeared to be
North	hern White Cedar	60	Pole/Log/Sap	9	119	Black Spruce	Low	Variable	Sapling	a rather extensive are of standing dead in north. Likely caused by
	Balsam Fir	10	Pole/Sapling	7		Balsam Fir	Medium	10 - 20 feet	Sapling	excessively wet conditions. Imagery shows the west 1/2 of stand (where I
	Paper Birch	2	Pole/Log	9		Northern White Ced	ar Medium	>20 feet	Sapling	was) being heavy to cedar. East 1/2 looks broadly mixed with conifer and deciduous. NWC saps listed in sub-can are suppressed stems, same age
I	Black Spruce	8	Pole/Log	8		Black Ash	Low	5 - 10 feet	Sapling	as canopy stems. BA swings= 160,150,180 (163avg)
В	Balsam Poplar	10	Log/Pole	10		Sphagnum Moss	Medium	Unspecified	Non-Wood	
Q	uaking Aspen	10	Log/Pole	11		Tag Alder	Medium	10 - 20 feet	Tall Shrub	
						Black Spruce	Low	< 5 feet	Seeding	
62	6122 - Bla	ack Spruce	e Pole	timbe	Medium	1.9 62	51-80	N/A		Small stand of moderate quality black spruce. The north half of the stand
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spec	es Density	Avg. Height	Size	is drier ground but transitions to very wet ground in the south half with sphagnum at the ground level. There is a large area of the south half that
	Red Maple	10	Pole/Log	8		Black Spruce	Medium	Variable	Sapling	is poorly-stocked with a thick layer of Michigan holly. Red maple is mostly
	Jack Pine	5	Pole/Log	8		Red Maple	Medium	>20 feet	Sapling	at the south edge. Average ba/acre from 3 plots = 63 square feet.
	Red Pine	2	Log/XLog	15		Michigan Holly	Medium	5 - 10 feet	Tall Shrub	
	White Pine	10	Pole/Log/XLog	8			'	I		
\	White Spruce	2	Log/XLog	15						
		7.4		_	00					
l	Black Spruce	71	Pole	7	62					
63	'	Tamarack			Medium	0.5 20	Immature	N/A		Small open area that is filling in with tamarack. A few older cedar are
63	6121 - 7	Tamarack % Cover	Sa	pling I		0.5 20	Immature	N/A		
63	6121 - 7	Гатагаск	Sa	pling I	Medium	0.5 20	Immature	N/A		scattered throughout. Unclear if this was cut at some time as cut stumps
63	6121 - 7	Tamarack % Cover	Sa Size Class	pling I	Medium	0.5 20	Immature	N/A		scattered throughout. Unclear if this was cut at some time as cut stumps
63 North	6121 - 7 Canopy Species hern White Cedar	Tamarack % Cover	Size Class Pole	pling I	Medium	0.5 20	Immature	N/A		scattered throughout. Unclear if this was cut at some time as cut stumps
63 North	6121 - T Canopy Species hern White Cedar Balsam Fir	Famarack % Cover 12 5	Size Class Pole Sapling	DBH	Medium	0.5 20	Immature	N/A		scattered throughout. Unclear if this was cut at some time as cut stumps
63 North	6121 - 7 Canopy Species hern White Cedar Balsam Fir Black Spruce	Famarack % Cover 12 5 15 68	Size Class Pole Sapling Sapling Sapling	DBH 7 1 1	Medium I Age	0.5 20	Immature Unspecified	N/A		scattered throughout. Unclear if this was cut at some time as cut stumps aren't evident. Wet ground. Pitcher plants are scattered throughout. Pipeline runs through this stand. Lots of reindeer moss. Filling in with
63 North	6121 - Tanopy Species hern White Cedar Balsam Fir Black Spruce Tamarack	Famarack % Cover 12 5 15 68	Size Class Pole Sapling Sapling Sapling	pling I DBH 7 1 1	Medium I Age		Unspecified		Size	scattered throughout. Unclear if this was cut at some time as cut stumps aren't evident. Wet ground. Pitcher plants are scattered throughout.
63 North	6121 - Tanopy Species hern White Cedar Balsam Fir Black Spruce Tamarack	Famarack % Cover 12 5 15 68	Size Class Pole Sapling Sapling Sapling	pling I DBH 7 1 1	Medium I Age	1.9	Unspecified	No	Size Sapling	scattered throughout. Unclear if this was cut at some time as cut stumps aren't evident. Wet ground. Pitcher plants are scattered throughout. Pipeline runs through this stand. Lots of reindeer moss. Filling in with
63 North	6121 - Tanopy Species hern White Cedar Balsam Fir Black Spruce Tamarack	Famarack % Cover 12 5 15 68	Size Class Pole Sapling Sapling Sapling	pling I DBH 7 1 1	Medium I Age	1.9 Sub-Canopy Spec	Unspecified es Density	No Avg. Height		scattered throughout. Unclear if this was cut at some time as cut stumps aren't evident. Wet ground. Pitcher plants are scattered throughout. Pipeline runs through this stand. Lots of reindeer moss. Filling in with
63 North	6121 - Tanopy Species hern White Cedar Balsam Fir Black Spruce Tamarack	Famarack % Cover 12 5 15 68	Size Class Pole Sapling Sapling Sapling	pling I DBH 7 1 1	Medium I Age	1.9 Sub-Canopy Speci	Unspecified es Density Medium	No Avg. Height Variable	Sapling	scattered throughout. Unclear if this was cut at some time as cut stumps aren't evident. Wet ground. Pitcher plants are scattered throughout. Pipeline runs through this stand. Lots of reindeer moss. Filling in with
63 North	6121 - Tanopy Species hern White Cedar Balsam Fir Black Spruce Tamarack	Famarack % Cover 12 5 15 68	Size Class Pole Sapling Sapling Sapling	pling I DBH 7 1 1	Medium I Age	1.9 Sub-Canopy Spec White Pine White Pine	Unspecified es Density Medium Low	No Avg. Height Variable >20 feet	Sapling Pole	scattered throughout. Unclear if this was cut at some time as cut stumps aren't evident. Wet ground. Pitcher plants are scattered throughout. Pipeline runs through this stand. Lots of reindeer moss. Filling in with
63 North	6121 - Tanopy Species hern White Cedar Balsam Fir Black Spruce Tamarack	Famarack % Cover 12 5 15 68	Size Class Pole Sapling Sapling Sapling	pling I DBH 7 1 1	Medium I Age	1.9 Sub-Canopy Spec White Pine White Pine White Pine	Unspecified es Density Medium Low Trace	No Avg. Height Variable >20 feet >20 feet	Sapling Pole Log	scattered throughout. Unclear if this was cut at some time as cut stumps aren't evident. Wet ground. Pitcher plants are scattered throughout. Pipeline runs through this stand. Lots of reindeer moss. Filling in with
63 North	6121 - Tanopy Species hern White Cedar Balsam Fir Black Spruce Tamarack	Famarack % Cover 12 5 15 68	Size Class Pole Sapling Sapling Sapling	pling I DBH 7 1 1	Medium I Age	1.9 Sub-Canopy Speci White Pine White Pine White Pine Red Pine	Unspecified es Density Medium Low Trace Trace	No Avg. Height Variable >20 feet >20 feet >20 feet	Sapling Pole Log Log	scattered throughout. Unclear if this was cut at some time as cut stumps aren't evident. Wet ground. Pitcher plants are scattered throughout. Pipeline runs through this stand. Lots of reindeer moss. Filling in with
63 North	6121 - Tanopy Species hern White Cedar Balsam Fir Black Spruce Tamarack	Famarack % Cover 12 5 15 68	Size Class Pole Sapling Sapling Sapling	pling I DBH 7 1 1	Medium I Age	1.9 Sub-Canopy Spec White Pine White Pine White Pine Red Pine Black Spruce	Unspecified es Density Medium Low Trace Trace Trace	No Avg. Height Variable >20 feet >20 feet >20 feet >20 feet	Sapling Pole Log Log Pole	scattered throughout. Unclear if this was cut at some time as cut stumps aren't evident. Wet ground. Pitcher plants are scattered throughout. Pipeline runs through this stand. Lots of reindeer moss. Filling in with
63 North	6121 - Tanopy Species hern White Cedar Balsam Fir Black Spruce Tamarack	Famarack % Cover 12 5 15 68	Size Class Pole Sapling Sapling Sapling	pling I DBH 7 1 1	Medium I Age	1.9 Sub-Canopy Spec White Pine White Pine White Pine Red Pine Black Spruce Black Spruce	Unspecified es Density Medium Low Trace Trace Trace Trace	No Avg. Height Variable >20 feet >20 feet >20 feet Variable	Sapling Pole Log Log Pole Sapling	scattered throughout. Unclear if this was cut at some time as cut stumps aren't evident. Wet ground. Pitcher plants are scattered throughout. Pipeline runs through this stand. Lots of reindeer moss. Filling in with
63 North	6121 - Tanopy Species hern White Cedar Balsam Fir Black Spruce Tamarack	Famarack % Cover 12 5 15 68	Size Class Pole Sapling Sapling Sapling	pling I DBH 7 1 1	Medium I Age	1.9 Sub-Canopy Spec White Pine White Pine White Pine Red Pine Black Spruce Black Spruce Jack Pine	Unspecified es Density Medium Low Trace Trace Trace Trace Low	No Avg. Height Variable >20 feet >20 feet >20 feet Variable Variable	Sapling Pole Log Log Pole Sapling Sapling	scattered throughout. Unclear if this was cut at some time as cut stumps aren't evident. Wet ground. Pitcher plants are scattered throughout. Pipeline runs through this stand. Lots of reindeer moss. Filling in with pine.



Stand	Level 4 C	over Type		Size De	nsity	Acres Stand	Age BA	Range	Managed S	Site	General Comments
65	6139 - Mixed	Lowland Fo	orest	Sawtimbe	er Poor	9.7 86		1-50	N/A		Poor quality and sparsely stocked mixed species stand. Most of the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Sp	pecies	Density	Avg. Height	Size	ground is on wet organic soils except for a few areas of drier ground along the G type to the southwest. Conifers are more common in the
	Paper Birch	20	Log/Pole	10		Balsam Fir	r	Low	Variable	Sapling	north half of the stand. A few areas with nice black ash regeneration in
	Balsam Poplar	4	Log/Pole	13		Black Ash		Low	Variable	Sapling	the understory. Signs of old beaver activity in a few spots. Average
	Quaking Aspen	12	Log	14		Tag Alder		High	10 - 20 feet	Tall Shrub	ba/acre from 5 plots = 24 square feet.
	Red Maple	5	Pole/Log	9		Nannyberry	У	Low	Variable	Tall Shrub	
	Black Spruce	7	Pole	7		Black Cherr	ry	Low	Variable	Tall Shrub	
No	rthern White Cedar	18	Log/Pole	10							1
	Balsam Fir	34	Pole/Log	8	86						
66	500 -	- Water		Nonsto	cked	1.0	Un	specified	No		Beaver pond
67	6112 - Lov	wland Aspe	n	Sawtimbe		4.0 56	;	51-80	N/A		Lowland poplar stand sitting on wet organic soils. The northeast side of the stand is poorly-stocked. Average ba/acre from 4 plots = 78 square
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Sp	pecies	Density	Avg. Height	Size	feet. Ground is very soft and not operable.
	White Spruce	3	Pole/Log	8		White Sprud	ce	Low	Variable	Sapling	
	Balsam Poplar	30	Pole/Log	8		Black Ash		Trace	Variable	Sapling	
	Quaking Aspen	67	Log/Pole	10	56	Balsam Popl	lar	Trace	Variable	Sapling	
						Tag Alder		High	10 - 20 feet	Tall Shrub	
						Nannyberry	У	Low	5 - 10 feet	Tall Shrub	
						Paper Birch	h	Trace	>20 feet	Sapling	
72	6111 - Lowlan	d Balsam F	Poplar	Poletimbe	er Poor	41.1 52	:	51-80	N/A		Wet, poorly-stocked lowland poplar stand. Multiple drainages flow a east/northeast through the stand (see imagery). There are a few localize
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Տր	pecies	Density	Avg. Height	Size	areas of drier ground, mostly along the northern stand edge. Heavy
	Black Spruce	1	Pole	6		Balsam Popl	lar	Medium	Variable	Sapling	lowland shrub component throughout, mostly alder although there are a
	Paper Birch	1	Pole	6		Black Ash		Medium	Variable	Sapling	few areas heavy to holly and nannyberry. Quaking aspen is more
	White Spruce	2	Pole/Log	8		White Sprud	ce	Trace	Variable	Sapling	dominant in the northeast part of the stand but less common throughout the rest of the stand. Stocking is generally much higher in the east half of
	Quaking Aspen	30	Log	13		American El	m	Trace	Variable	Sapling	the stand as compared to the west. Black ash regeneration is abundant
	Balsam Poplar	66	Pole/Log	8	52	Paper Birch	h	Trace	>20 feet	Sapling	in areas of the east half, and most appears healthy at this time. Trace o
						Tag Alder		High	10 - 20 feet	Tall Shrub	elm, white pine, tamarack, and cedar in the overstory. Average ba/acre
						Nannyberry	у	Medium	10 - 20 feet	Tall Shrub	from 8 plots = 53 square feet. Did not visit the far eastern or western ends of the stand.
						Black Cherr	ry	Low	Variable	Tall Shrub	
						Michigan Ho	lly	Medium	5 - 10 feet	Tall Shrub	
402	110 - Low Ir	ntensity Urb	oan	Nonsto	cked	3.3	Un	specified			Active oil well site with a lot of degraded, sandy ground.
405	2113 - Fo	orage Crops	5	Nonsto	cked	0.6	Un	specified	No		