

Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53019 Entry Year 2023 Acreage: 2,048

County Cheboygan

Management Area: Pigeon River Country

Revision Date: 2021-05-24

Stand Examiner: John St. Pierre

Legal Description:

T34N, R01E Sections 19, 20, 29 & 30

Identified Planning Goals:

To provide for the protection, integrated management, and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and topography:

Terrain is flat to gently rolling, except for a brief high point in section 20 the does feature steep slopes. The compartment offers a mixture of upland and lowland forested and non-forested covertypes. Upland soils are characterized primarily by sands and loamy sands. The highest percentages can be found in Rubicon sands, Au Gres sands, Croswell sands, Blue Lake loamy sands, Emmet loamy sands, and Riggsville loamy sands, respectively. Lowland soils are primarily Tawas peat, Roscommon muck, Bowstring muck, and Kinross mucky sands.

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

Ownership is primarily a contiguous block of state land with some private parcels along the northern boundary. A narrow twenty-acre block with frontage on Tucker Rd was acquired by the State in the early nineties. The examiner was not able to locate a survey corner at the southwest corner of this acquired land.

A portion of this compartment was 'absorbed' into the Gaylord Forest Management Unit (FMU) in late 2020. The 'absorbed' portion totaled about 174 acres, the majority of which is located north of Tucker road. A boundary review of state owned lands concluded this would simplify management responsibilities between the surrounding forest management units (Gaylord, Atlanta and Pigeon River).

Unique Natural Features:

No unique natural features have been identified.

Archeological, Historical, and Cultural Features:

No significant archeological, historical, and cultural features have been identified. However, there is an old railroad grade system that travels through sections 20 and 29. The grade likely dates back to the late 1800's - early 1900's, during Michigan's 'Logging Era'.

Special Management Designations or Considerations:

A 'high priority trout stream' buffer is present along either side of Milligan Creek, in sections 19, 29, and 30. The creek is a tributary of Black River.

Watershed and Fisheries Considerations:

As mentioned above, Milligan Creek has a 'high priority trout stream' buffer that extends off either side its banks. The creek is a tributary of Black River.

Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

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 less than three miles to the northwest. There might be some potential for sand & gravel on the upland areas within the compartment, but surface mining is not currently allowed. There has been no oil & gas production, past or present, within five miles of the compartment. There is low potential for oil and gas from known producing formations in this compartment. The Antrim Shale is thin or absent beneath the compartment, and the compartment is north of the Guelph (Niagaran) reef trend). There is no mineral leasing activity in the area, and all parcels within the compartment are currently classified as non-leasable.

Vehicle Access:

Conventional vehicle access is generally good throughout most of the compartment. Access is interrupted by large and small lowland complexes in sections 19, 29, and 30. The western portions of the compartment are only accessible by forest roads that travel east off Osmun Rd.

Non-county owned forest roads within the compartment are closed to ORV traffic. These roads are posted as being closed, but this has done little to prevent ORV traffic from using the forest road system(s). Some of the carsonite 'Closed to ORV' signs in this compartment have been cut down.

Survey Needs:

One location near the center of section 20 may require a survey in the future.

Recreational Facilities and Opportunities:

No developed recreational facilities or trails exist in this compartment and none are needed. However, informal recreational opportunities are available and include snowshoeing, hiking, biking and generally meandering. The compartment does provide a wide range of hunting possibilities depending on the season.

Fire Protection:

Wildland fire protection for this compartment is provided by Michigan DNR resources from the Indian River and Onawa field offices. Local VFD personnel and equipment are vitally important fire response resources that would provide suppression too. Access could be difficult depending on where the start occurs. Watering points are not readily available in most locations too.

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

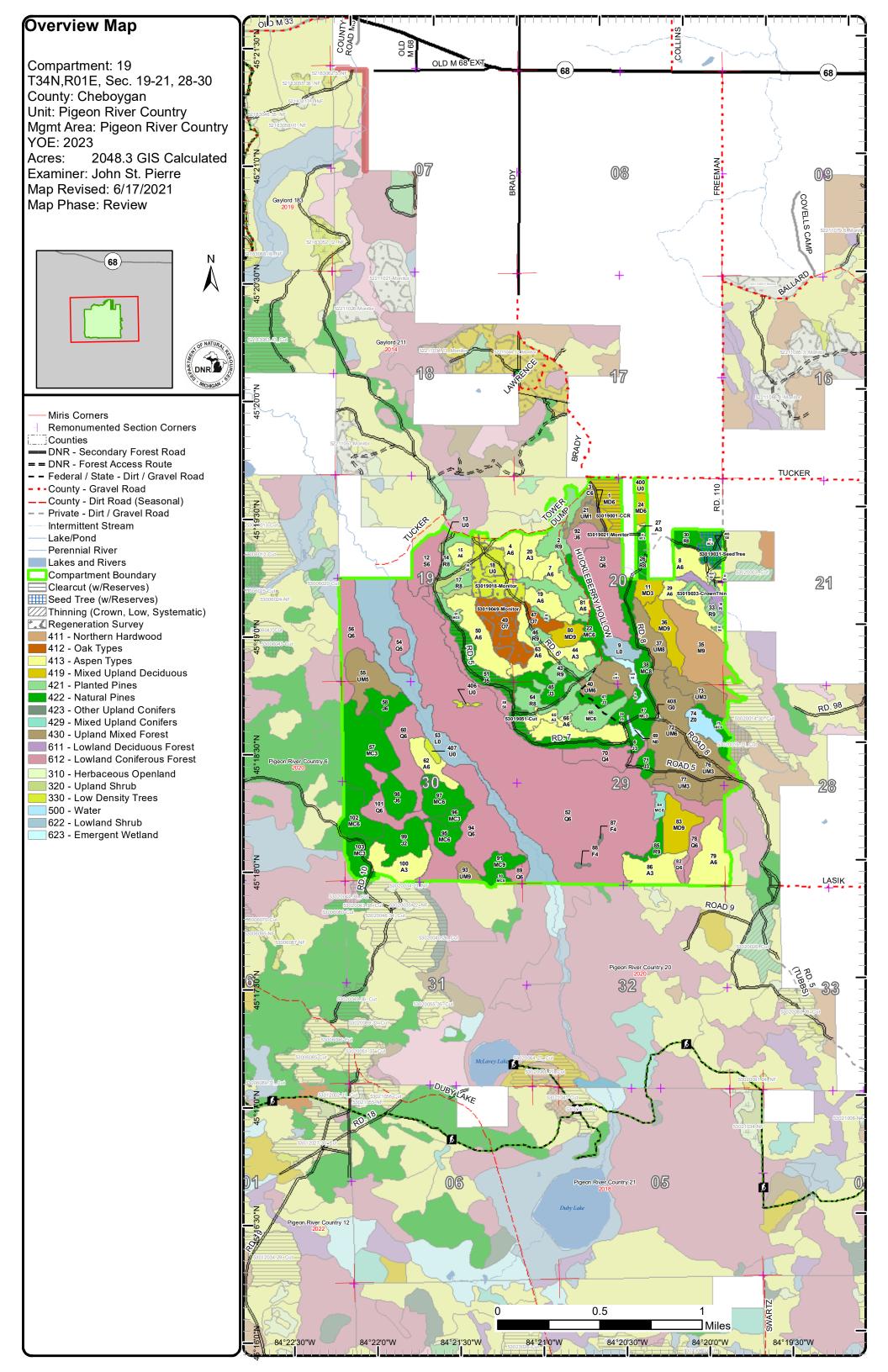


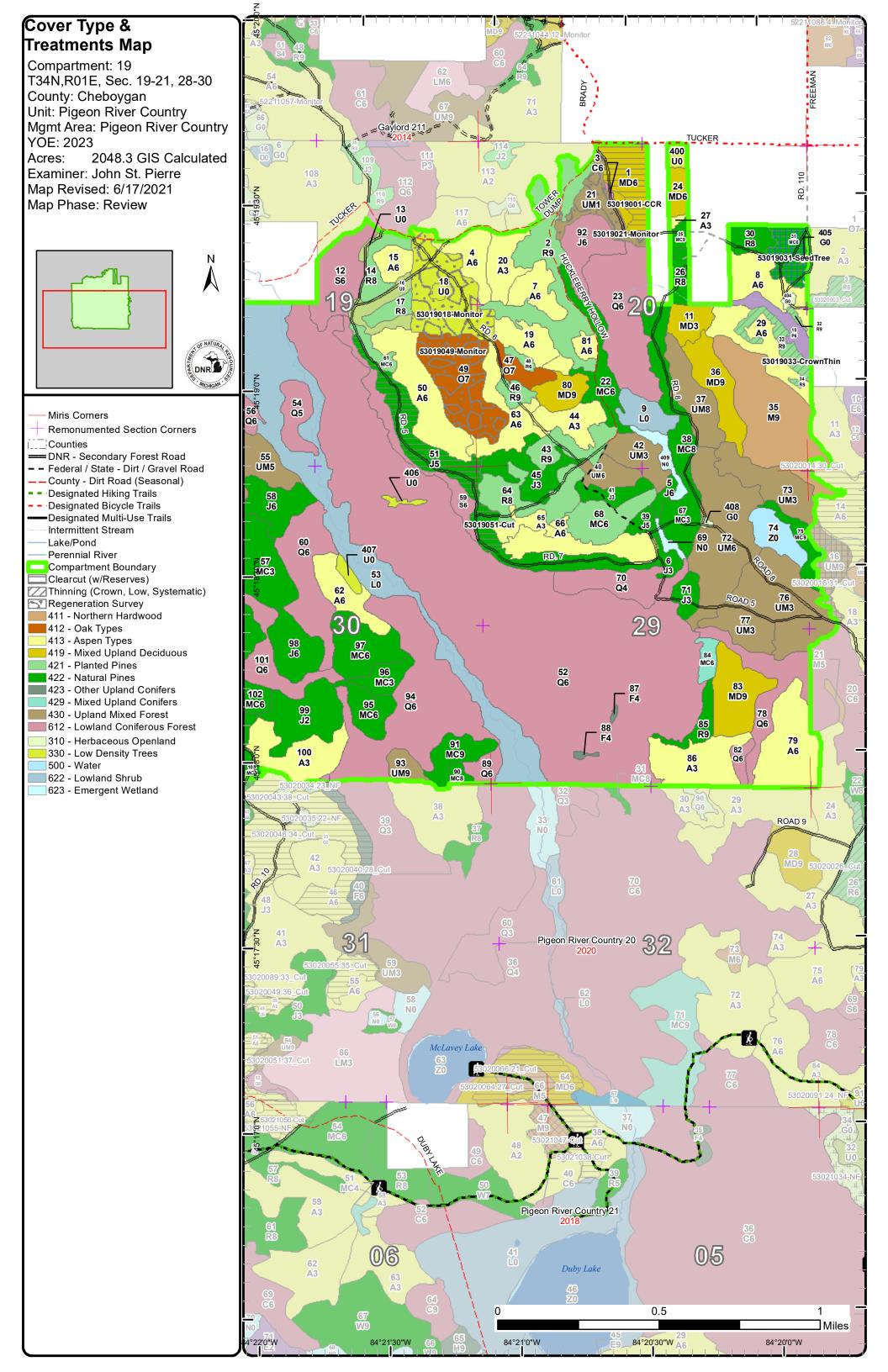
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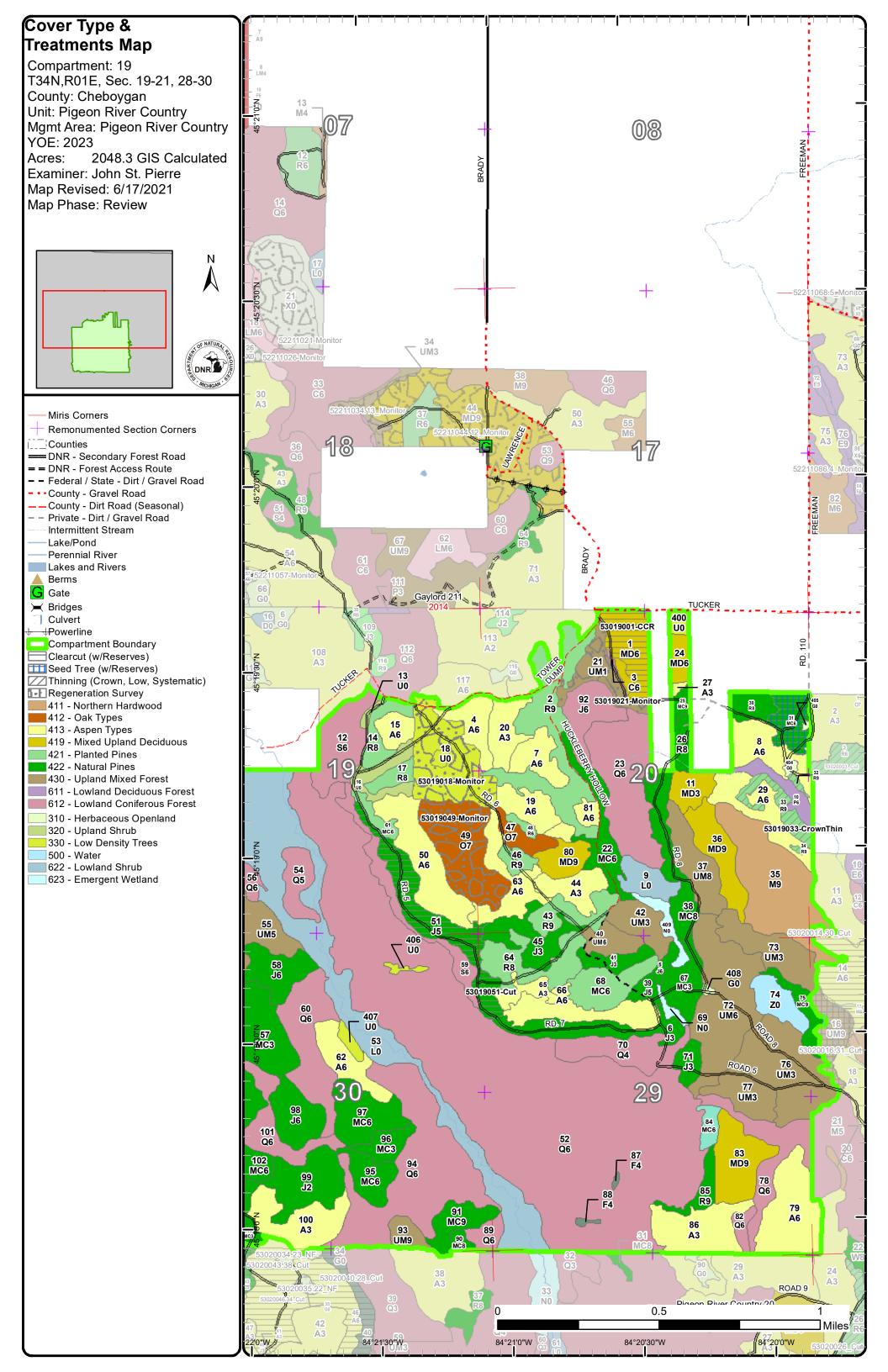
John St. Pierre: Examiner

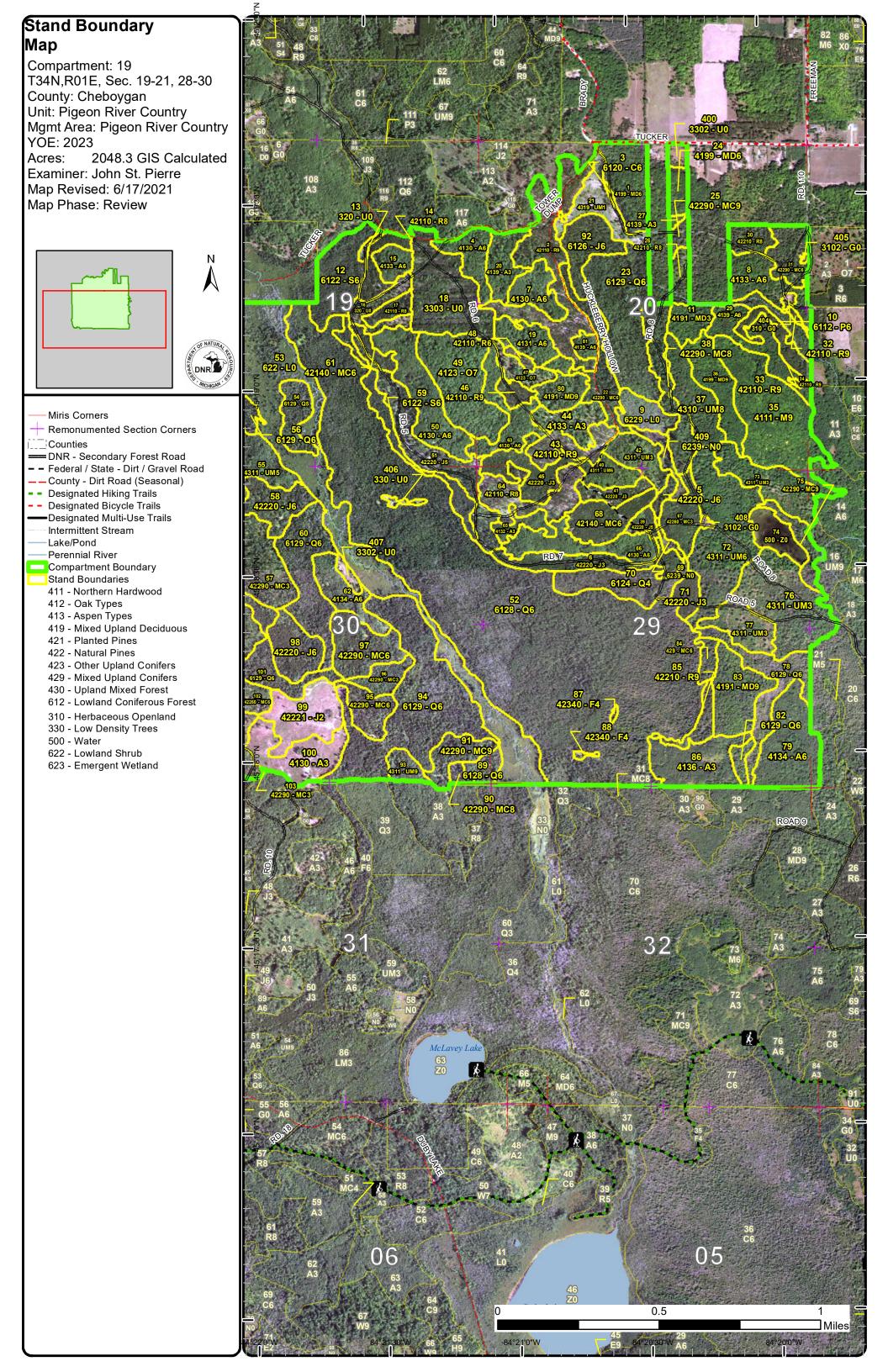
Age Class

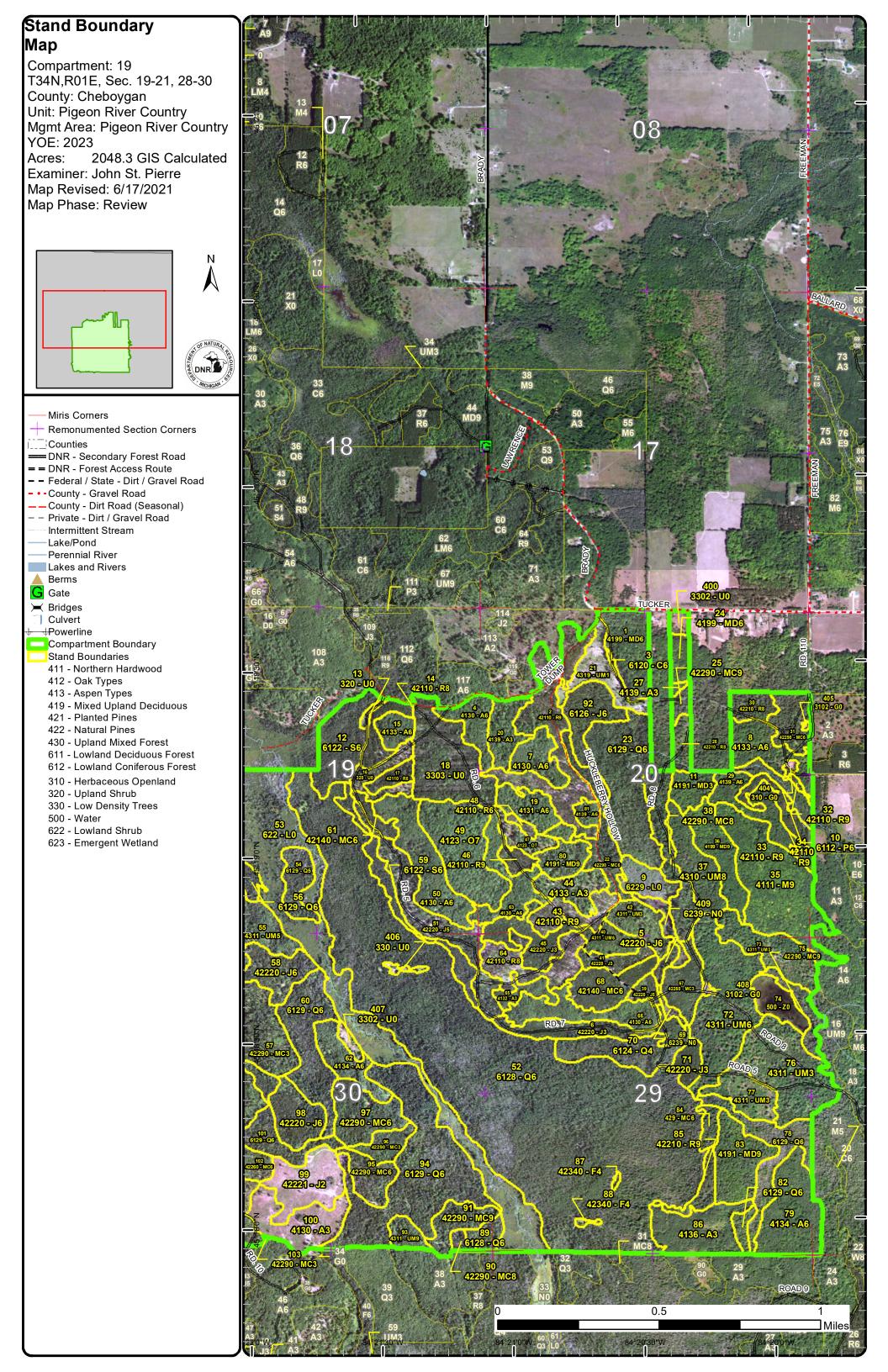
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	₹ 8 ⁷		s / «		\$ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	3 / 12	S K	3/8	⁵ / «		8 8		8 /2 Z		\$ / §		,	2 / 200	KES YOU
Aspen	0	23	0	42	85	42	66	11	0	0	0	0	0	0	0	0	0	0	269
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	23	0	50	20	62	0	0	0	0	0	0	0	0	0	0	0	0	155
Low-Density Trees	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Lowland Aspen/Balsam Poplar	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	20	0	105	0	106	28	377	0	0	0	0	635
Lowland Shrub	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	23	0	15	0	0	0	0	0	0	0	38
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	0	0	0	9	0	0	0	42	18	9	0	0	6	0	0	0	0	84
Natural Mixed Pines	0	0	0	82	49	0	28	25	2	8	20	3	0	0	0	0	0	0	217
Northern Hardwood	0	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	51
Oak	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	42
Planted Mixed Pines	0	0	0	0	16	0	4	0	0	0	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	0	0	10	95	0	0	7	13	0	0	0	0	0	0	125
Upland Conifers	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	15	14	71	56	27	0	6	0	18	0	0	0	0	0	0	0	0	206
Upland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Upland Spruce/Fir	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	188	61	14	245	243	131	112	158	67	242	51	122	28	384	0	0	0	0	2043

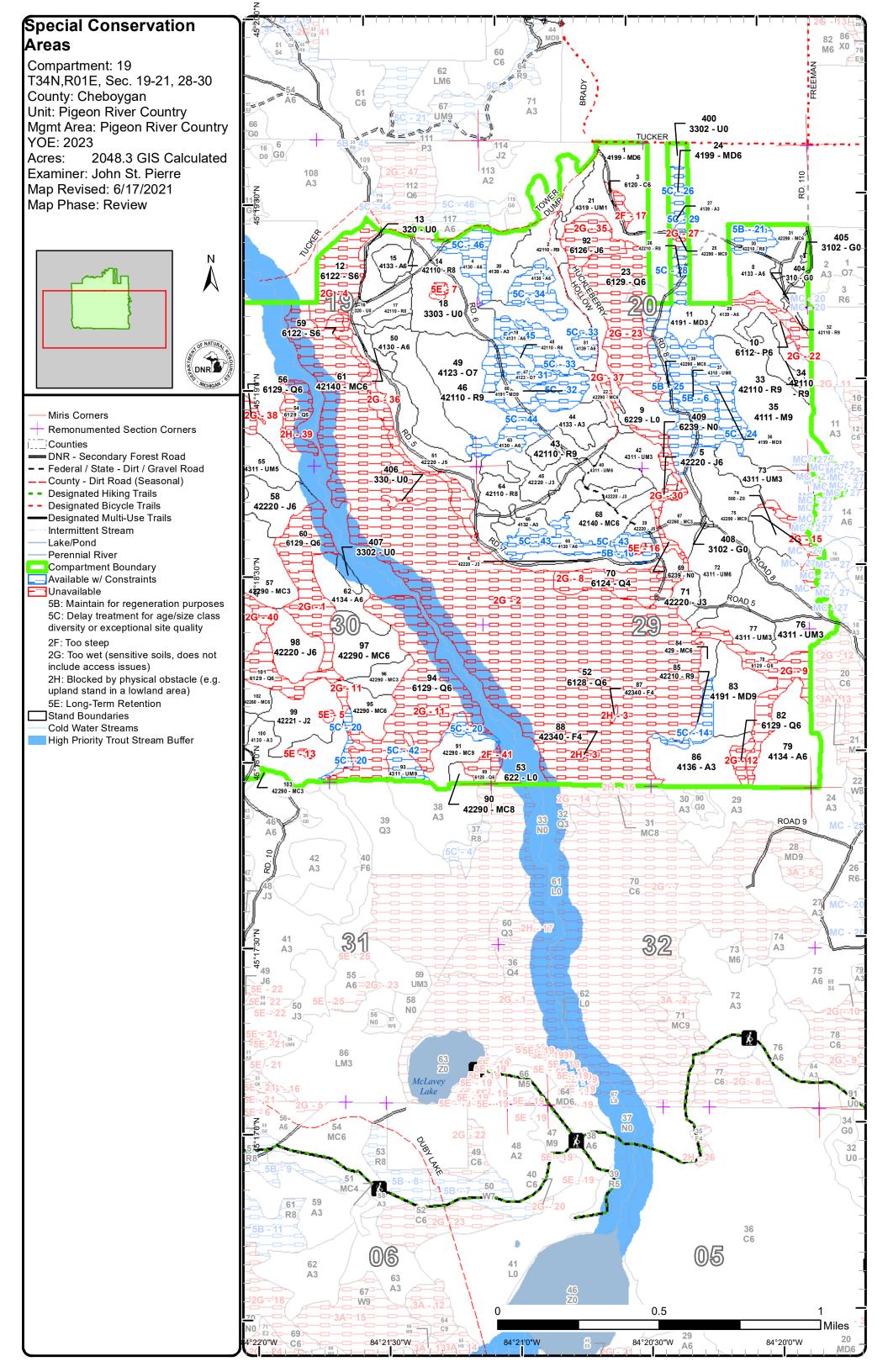


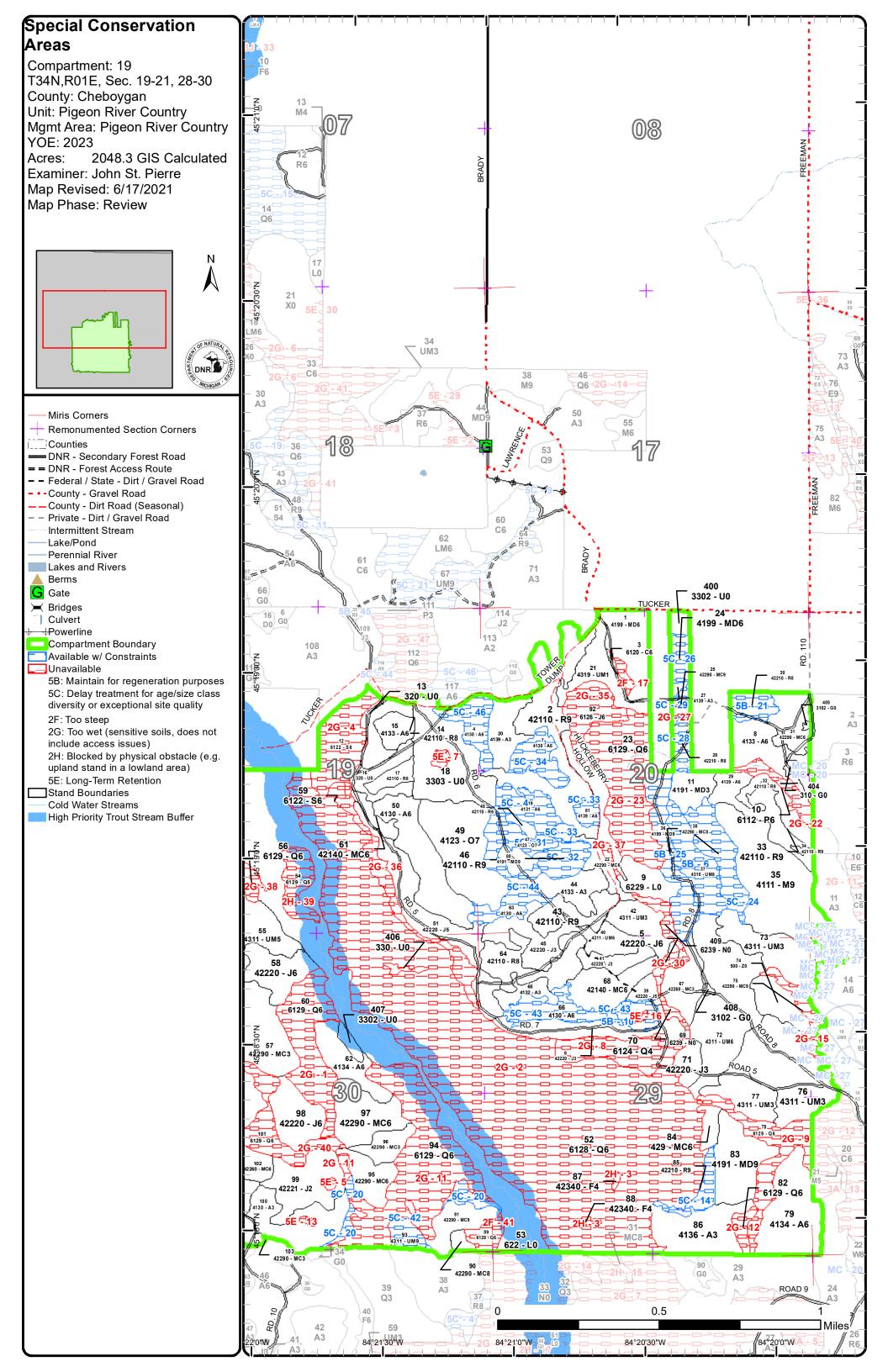














Report 2 - Treatment Summary

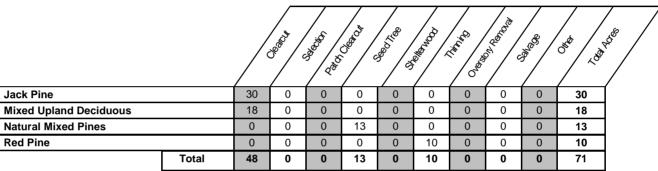
Pigeon River Country Mgt. Unit Year of Entry: 2023

Acres of Harvest

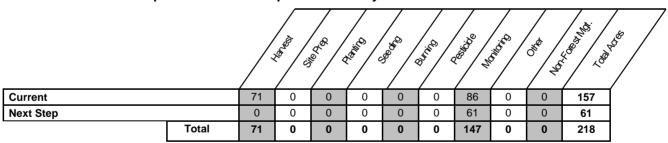
Compartment 19
Total Compartment Acres: 2,048

Commercial Harvest - 71
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Compartment: 19

Year of Entry: 2023

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

Proposed Treatments:

53019001-17.7 4199 - Other Mixed Poletimber 70 81-110 Harvest Clearcut with 4139 - Aspen, No Even-Aged CCR Upland Deciduous Well Retention Mixed Deciduous

Prescription Clearcut w/Retention.

Specs: · Too steep' excluded in southwest. Do not run redline right up to the steepest portions of this slope. Sandy soils are still healing from

erosion caused by a previous RDR.

- Capture some red oak within one or more retention areas

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

- Protect legacy pine/oak. Observed one legacy white/red pine. Several red oak nearing 26".

- Protect oak and pine saplings

- Include drumming log spec

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate or better stocking of aspen with components of red maple, oak, pine, fir and spruce.

Regen:

Other Survey corners located on east boundary. Still requires running a flag line through lowland, then hilly terrain. Consider reserving the Arrow

Comment: antenna for this line.

Site Condition

Proposed Start Date: 10/1 /2022

53019018 35.7 3303 - Mixed Low Nonstocked Unspec Monitoring Natural Regen 42290 - Natural Even-Aged No Mixed Pine **Density Trees** ified (Re-Inventory) Monitor

Prescription Natural regeneration survey to be conducted during re-inventory in 2031.

Specs:

Next Step **Treatments:**

Acceptable 2011 regen comment: A mix of pine and hardwood species meeting a moderate stocking level will be acceptable in determining regeneration

Regen:

Other Final harvest completed in 2017. See stand comments for initial regeneration assessment, conducted in April '21. Closed/failed original

Comment: survey, re-assess during re-inventory in '31.

Site Condition

Proposed Start Date: 10/1 /2030

53019021-15.1 4319 - Mixed Sapling 3 Immatu Monitoring Natural Regen 42221 - Natural Even-Aged Nο 21 Monitor **Upland Forest** Poor (Re-Inventory) Jack Pine, Mixed

Deciduous

Prescription Natural regeneration survey to be conducted during re-inventory in 2031.

Specs:

Next Step Treatments:

Acceptable 2011 regen comment: Jack Pine is the objective, but any mix of species will be acceptable for regeneration success. Leave about 10-20 BA

of residual for seed source. Regen:

Other Final harvest completed in 2018. See stand comments for initial regeneration assessment, conducted in April '21. Closed/failed original

Comment: survey, re-assess during re-inventory in '31.

Site Condition

Proposed Start Date: 10/1 /2030



a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
31	53019031-	12.7	42290 - Natural	Poletimbe	er 69	51-80	Harvest	Seed Tree	4311 - Pine,	Two-Aged	No
	SeedTree		Mixed Pine	Well					Aspen Mix		

Prescription Seed Tree, leave 10-20BA.

Specs:

- Leave scattered and/or clumps of healthy red, white, jack pine and some red oak as a seed source
- Protect oak seed trees from damage by leaving a few non-oak 'bumper trees' around the crown/bole of selected oak. Negates needing to
- Require whole tree skidding during snow-off/ground not frozen conditions
- Leave incidental hemlock
- Use drumming log spec

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen:

Moderate or better stocking mixture of jack, white, red pine, aspen, red maple and oak. Pine species will likely take longer to regenerate. An additional survey may be required after initial regen check in '31.

Other .

- Require producer to spread out their skidding routes, to promote uniform scarification.

Comment: - Survey corners located along north boundary.

Site Condition

Proposed Start Date: 10/1 /2022

32 53019032- 0.9 42110 - Planted Sawtimber 55 171- Harvest Crown Thinning 42110 - Planted Even-Aged No CrownThin Red Pine Well 200 Red Pine

Prescription Crown Thin, target 120BA.

Specs:

- Focus marking defect prone red pine stems
- Avoid marking the few log/xlog red oak, most are located along the boundary

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

33 53019033- 9.1 42110 - Planted Sawtimber 55 141- Harvest Crown Thinning 42110 - Planted Even-Aged No Red Pine Well 170 Red Pine

Prescription Crown Thin, target 120BA.

Specs:

- Focus marking defect prone red pine stems
- Avoid marking the few xlog red oak and do not mark any of the legacy red oak that are present. Most of these stems are located along the boundary.
- Protect legacy oak in specs
- Walk through areas present

Next Step Treatments:

Acceptable Regen:

Other Comment:

A seasonal drainage is located just north of sale area (Stand 10). It may be possible to use composite mats, or similar equipment, to cross the drainage and haul wood a much shorter distance north, to Tucker Rd. Other haul route options are available.

Site Condition

Proposed Start Date: 10/1 /2022

Red Pine

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a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
34	53019034-	0.4	42110 - Planted	Sawtimbe	er 55	201+	Harvest	Crown Thinning	42110 - Planted	Even-Aged	No

Prescription Crown Thin, target 120BA.

CrownThin

Specs: - Focus marking defect prone red pine stems

- Small dense stand that's never been thinned. Some mature aspen stems will need to be marked to facilitate equipment mobility.

Next Step Treatments:

Acceptable Regen:

Other See Stand 33's comments regarding hauling options.

Red Pine

Well

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

49 53019049- 35.1 4123 - Red Oak Sawtimber 87 1-50 Monitoring Natural Regen 4122 - Oak, Pine Two-Aged No Monitor Poor (Re-Inventory)

Prescription Natural regeneration survey to be conducted during re-inventory in 2031.

Specs:

Next Step Treatments:

Acceptable 2011 regen comment: A mix of Aspen, Oak and Red Maple.

Regen:

Other Selection harvest completed in 2019. See stand comments for initial regeneration assessment, conducted in April '21. Closed/failed original

Comment: survey, re-assess during re-inventory in '31.

Site Condition

Proposed Start Date: 10/1 /2030

51 53019051-Cut 30.3 42220 - Natural Poletimber 46 51-80 Harvest Clearcut 4222 - Natural Even-Aged No Jack Pine Medium Jack Pine

<u>Prescription</u> Clearcut. No area retention. Leave a few scattered clumps of jack pine for a seed source. Leave incidental red pine and oak. Protect all jack pine and black spruce advanced regeneration (less than 2" DBH). Expand the treatment boundary west into stand 59 (S6 stand) where there

are areas of operational ground.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully-stocked stand meeting jack pine regeneration guidelines.

Regen:

Other Require chipping of tops in the summer or fall to encourage natural regeneration. Get the loggers to spread out their skidding routes to

Comment: promote uniform scarification.

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment Acreage Proposed:

Pigeon River Country Mgt. Unit

John St. Pierre: Examiner

Compartment: 19 Year of Entry: 2023

Availa	ability for	Managemer	nt								
Total	Acres	Acres Avail	Acres	D	omina	nt Site	e Con	dition	s		
Acres	Available	With Condition	Not Available		5B	5C	MC	2F	2G	2H	5E
270	191	77	1	Aspen	1	76					1
1	1	0	0	Cedar							
2	2	0	0	Herbaceous Openland							
155	136	0	19	Jack Pine					18		1
44	42	0	2	Low-Density Trees		0			0		2
8	0	0	8	Lowland Aspen/Balsam Poplar					8		
636	1	8	628	Lowland Conifers		8		5	611	11	
113	113	0	0	Lowland Shrub							
38	0	0	38	Lowland Spruce/Fir					38		
7	0	0	7	Marsh					7		
84	49	33	2	Mixed Upland Deciduous		33		2			
218	185	22	11	Natural Mixed Pines	20	1			11		
51	51	0	0	Northern Hardwood							
42	35	7	0	Oak		7					
21	21	0	0	Planted Mixed Pines							
125	105	20	0	Red Pine	7	13					
4	4	0	0	Upland Conifers							
207	183	25	0	Upland Mixed Forest	18	6	1				
11	11	0	0	Upland Shrub							
1	0	0	1	Upland Spruce/Fir						1	
11	11	0	0	Water							
2,048	1,139	192	718	Total Forested Acres	47	144	1	7	694	12	4
-	56%	9%	35%	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.

1 Unavailable 2G: Too wet (sensitive 31 Unspecified Unspecified Unspecified Ur soils, does not include access issues)	nspecified

Pigeon River Country Mgt. Unit

John St. Pierre: Examiner

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	377	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Available	5B: Maintain for regeneration purposes	18	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
	Comments: Fairly desirable/dive	erse sub-canopy of conifer and o	decidu	ous. Allow regeneration to reci	uit further towards mid-	canopy positions.	
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Added this 5E S.C.	during '20 inventory delineation	. Wasr	n't previously overtop the island	d left in middle of the ha	rvest area. JSP	

Compartment: 19

Year of Entry: 2023 John St. Pierre: Examiner 8 Unspecified Unspecified Unspecified Unspecified Unavailable 2G: Too wet (sensitive 20 soils, does not include access issues) Comments: Unspecified 23 Unspecified Unavailable Unspecified Unspecified 2G: Too wet (sensitive soils, does not include access issues) Comments: Intermittent stream flowing west to east through northern portion of this stand. Southern area was very wet during visit in '21. 10 Unspecified Unspecified Unspecified Unspecified **Available** 5B: Maintain for 1 regeneration purposes Comments: Area of jack pine and aspen saplings. Exclude from adjacent harvest and merge into another stand. Unspecified 11 Unavailable 2G: Too wet (sensitive 66 Unspecified Unspecified Unspecified soils, does not include access issues) Comments: Overall 'too wet'. Some perimeter locations could 'opportunistically' be harvested when adjacent upland stands are treated (S.C. 5C-20 approximates a couple of those areas). Seasonal watercourses and flooded areas in perimeter areas too (some appear operable/dry, soils likely wouldn't support conventional harvesting equip). 5A: Not able to obtain Unspecified Unspecified Unspecified 12 Unavailable 4 2G: Too wet (sensitive desirable regeneration soils, does not include access issues) Comments: Generally to wet/sensitive to manage with modern day equipment. Strong hemlock component and xlog/legacy WP. Would be difficult to regenerate those species if harvested (heavy deer/elk usage observed). 13 Unavailable 1 Unspecified Unspecified Unspecified Unspecified

Comments:

5E: Long-Term Retention

Pigeon River Country Mgt. Unit

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14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: In general, this star	nd is seasonally 'Too wet' to ma	nage. Be	etter served to act as a filte	er/buffer strip along Grass L	ake.	
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Recommended ret proposed area cap	ention area for the harvest that volumed as a 5E.	was prop	oosed during '23 YOE. Tha	at Rx has since been dropp	ed, will likely be Rx'd durir	ng '33 YOE. So kept the
17	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
		ads down to the ditch along the ope are a former RDR. An area			/cedar posts. Areas are st	ll healing from erosion/sa	ndy soils located on
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Approximates three adjacent to upland	e possible areas of ~operability v stands.	within St	and 94. More 'opportunisti	c' locations observed in nor	thern area of this stand (~	-during snow-on),
21	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Majority of stand hapositions.	arvested '04, a desirable regene	ration la	yer of pine/some deciduou	ıs has established. Allow re	gen to continue to recruit	into mid-canopy

Pigeon River Country Mgt. Unit

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22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Seasonal watercou	ırse, flows west when conditions	are ex	ccessively wet. Silty/sensitive s	oils in areas.		
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Some upland interf	ace along perimeter areas, star	nd as a	whole is 'too wet'.			
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Consider harvestin	g, possibly w/Stand 35, during '	33 YOE	Ξ.			
25	Available	5B: Maintain for regeneration purposes	20	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
	Comments: Most recently harve positions.	ested in '04. Fairly desirable/dive	erse su	b-canopy of conifer with some	deciduous. Allow rege	neration to recruit further to	wards mid-canopy
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Small two-aged sta	and with healthy red oak.					
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Watercourse when	conditions are excessively wet,	flows	west. Silty/sensitive soils.			

Pigeon River Country Mgt. Unit

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Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most recently harv	ested in '04. Some decent jack p	ine re	gen in areas.			
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
			of non-forested covertypes	(except Stand 5). Old rail	road grade against majority	of western boundary,
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most recently harv criteria.	ested in '04. Regeneration was h	eavily	browsed, now little regen pr	esent. Oak residual is nov	v the dominant size class,	its age is 'meeting'
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retaining for now,	for several reasons. See stand a	and dra	aft rx comments.			
	Comments: Most recently harve Available Comments: Unavailable Comments: Seasonally wet wa has/is influencing was has has has has has has has has has h	age/size class diversity or exceptional site quality Comments: Most recently harvested in '04. Some decent jack p Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: Seasonally wet watercourse/corridor, primarily com has/is influencing water levels and direction of flow. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Most recently harvested in '04. Regeneration was horiteria. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments:	age/size class diversity or exceptional site quality Comments: Most recently harvested in '04. Some decent jack pine reader age/size class diversity or exceptional site quality Comments: Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: Seasonally wet watercourse/corridor, primarily composed has/is influencing water levels and direction of flow. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Most recently harvested in '04. Regeneration was heavily criteria. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Comments: Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments:	Comments: Most recently harvested in '04. Some decent jack pine regen in areas. Available 5C: Delay treatment for 2 Unspecified age/size class diversity or exceptional site quality Comments: Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: Seasonally wet watercourse/corridor, primarily composed of non-forested covertypes has/is influencing water levels and direction of flow. Available 5C: Delay treatment for 7 Unspecified age/size class diversity or exceptional site quality Comments: Most recently harvested in '04. Regeneration was heavily browsed, now little regen procriteria. Available 5C: Delay treatment for 9 Unspecified age/size class diversity or exceptional site quality	Comments: Most recently harvested in '04. Some decent jack pine regen in areas. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: Seasonally wet watercourse/corridor, primarily composed of non-forested covertypes (except Stand 5). Old railth has/is influencing water levels and direction of flow. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Most recently harvested in '04. Regeneration was heavily browsed, now little regen present. Oak residual is now criteria. Available 5C: Delay treatment for 9 Unspecified Unspecified Unspecified Societal Soc	age/size class diversity or exceptional site quality Comments: Most recently harvested in '04. Some decent jack pine regen in areas. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: Seasonally wet watercourse/corridor, primarily composed of non-forested covertypes (except Stand 5). Old railroad grade against majority has/is influencing water levels and direction of flow. Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Most recently harvested in '04. Regeneration was heavily browsed, now little regen present. Oak residual is now the dominant size class, criteria. Comments: Available 5C: Delay treatment for age/size class diversity or exceptional site quality Comments:

Pigeon River Country Mgt. Unit

John St. Pierre: Examiner

33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Aspen age 'meets'	criteria. Aspen stems still quite	small/lac	k merchantability.			
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Aspen age 'meets'	criteria. Merchantability of aspe	en is varia	able and needs at least or	e more rotation growth.		
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
		a good way to describe the app Overall, conditions appeared 'to		of this stand. Northern are	eas are mostly upland, rema	ainder is spongy/mossy wi	th a blanket of lab tea
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stand located on t	ransitional/operationally inconsis	stent grou	und. Opportunistically exp	and treatment boundary of	Stand 51 into this stand do	uring sale prep in '23.
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Approximates a sethis long/narrow st	asonally wet/watercourse prese	ent within	Stand 22. Remainder of	stand sits on transitional/sea	asonally wet ground, more	so in the east half of

Pigeon River Country Mgt. Unit

John St. Pierre: Examiner

38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Quite wet, soils wo	uld not support conventional ha	rvest ed	uipment/operations.			
39	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments: Lowland island star	nd, surrounded by Milligan Cree	k flood;	olain.			
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Quite wet. Surroun	ding harvests have already cut	up to/int	to this stand as much and a	as practical.		
41	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Overall 'too wet'. C	ould 'opportunistically' harvest s	mall po	rtions along the northern b	oundary, when adjacent up	land stands are harvested	
42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Treat in future with	adjacent stands. See draft rx co	ommen	ts.			
43	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: See draft Rx notes	for this stand. Proposed Rx for	'23 YO	E dropped, pre-review deci	sion was to manage in '33	YOE with additional stands	5.

Pigeon River Country Mgt. Unit

Compartment: 19 Year of Entry: 2023 John St. Pierre: Examiner

44	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
_	omments: ee draft Rx notes	for this stand. Proposed Rx for	'23 YOE	dropped, pre-review deci	sion was to manage in '33	YOE with additional stands	3.
45	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
_	omments: ee draft Rx notes	for this stand. Proposed Rx for	'23 YOE	dropped, pre-review deci	sion was to manage in '33	YOE with additional stands	S
46	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
_	omments: ee draft Rx notes	for this stand. Proposed Rx for	'23 YOE	dropped, pre-review deci	sion was to manage in '33	YOE with additional stands	5.
104	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						

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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

Balsam Fir

Red Pine

White Pine

White Oak

Jack Pine

Common Lowbush Blueberry

Compartment: 19 Year of Entry: 2023



Stand	Level 4 C	over Type	s	Size Density Acres Stand Age BA Range Managed Si	ite	General Comments				
1	4199 - Other Mixe	d Upland [Deciduous Po	letimb	er Well	20.2 70	81-110	N/A		McDonald '11: Mixed age class in the aspen. Quite a bit of 3-4" diameter
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	trees. JSP '21: Interesting/diverse stand in areas, variable terrain too. Ages
	Quaking Aspen	5	Log/Pole	10		Beech	Low	Variable	Sapling	suggest a removal Rx occurred here in the early 50's, left all oak and a
	Bigtooth Aspen	34	Pole/Log	9	70	White Pine	Medium	10 - 20 feet	Sapling	few WP/RP. Cored a 12.6" WO, had so many rings I couldn't properly
	Red Maple	23	Pole/Sap/Log	7	71	Balsam Fir	Medium	Variable	Sapling	count it. Used the RP age from Stand 3 and put it in the red oak canopy listing above. Western boundary in south sits a top a very high point (for
	Red Oak	20	Log/XLog/Pole	17	121	Black Cherry	Low	5 - 10 feet	Sapling	Michigan) w/steep slopes that lead down to the ditch along the old
	Balsam Fir	5	Pole/Log	8		Red Maple	High	>20 feet	Sapling	railroad grade. Portions of that slope are a former RDR, have been
	White Pine	5	Pole/Log/XLog	8		Red Oak	Medium	10 - 20 feet	Sapling	blocked off for some time and are still healing from erosion/sandy soils on the steep downslope portion. Trace WO (log) is found just east of this
	Red Pine	4	Log/Pole/XLog	14		Paper Birch	Trace	>20 feet	Sapling	prominent slope/along the western boundary. Variable DBH's depending
	Jack Pine	4	Pole/Log	8		Red Pine	Low	Variable	Sapling	on where you are. Northern ~1/3rd and extreme south held more log
						Jack Pine	Low	10 - 20 feet	Sapling	sized stems (besides oak). Remaining central/south-central portion leads up to/arrives at the stands high point. These areas hold a lot of RO, the
						White Spruce	Trace	10 - 20 feet	Sapling	RM/BTA regen has been more suppressed and is P/S and S/P sized.
						Sugar Maple	Trace	>20 feet	Sapling	Could get away with calling the stand log sized. Observed consistent red
					_					oak regen, most of good/decent form and on the high side of 'medium density'. Trace HM (pole), mentioned the WO (log) and saw one apple tree (large sap). NW a broad mixture of BF, QA, RM, RP, some WP (one legacy WP on west boundary). BA swings= 60,120,80,140,60,70,110,140 (97avg)
2	42110 - Pla	nted Red F	Pine Sa		er Well	42.0 62	111-140	N/A		McDonald: Stand Year Origin was 1959. Stand was 3rd row thinned in 2014/15.JSP '21: Toggles between being smaller DBH/more R6 sized
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	(western finger). Then areas larger/more reliably R9. Overall, small log
	Red Pine	90	Log/Pole	10	62	Black Cherry	Low	5 - 10 feet	Sapling	sizes most common. Better stocking consistency than any of the other
	Red Oak	4	XLog/Log	20		Red Oak	Low	10 - 20 feet	Sapling	plantations in the comp. Defect/doubles not uncommon yet still potential/room for improvement following a future crown thin. The two
	White Oak	2	Log/Pole/XLog	14		Red Maple	Medium	Variable	Sapling	blobs' west and north of Tucker Rd in north either weren't 3rd row thinned
	Bigtooth Aspen	2	Log/Pole	12		Bigtooth Aspen	Low	Variable	Sapling	or only had a portion that was thinned. All deciduous was removed
	Red Maple	2	Log/Pole	10		Black Spruce	Trace	5 - 10 feet	Sapling	(except oak) during thin. Most deciduous regen has been

Trace

Trace

Trace

Trace

Trace

Low

5 - 10 feet

10 - 20 feet

Variable

5 - 10 feet

< 5 feet

< 5 feet

Sapling

Sapling

Sapling

Sapling

Seeding

Tall Shrub

browsed/consumed except less so in areas closer to forest rds or in

swings= 100,70,90,110,120,140,130,170 (116avg)

some perimeter locations. The aspen/RM listed in the canopy represents

the mature stems still present in 'blobs' west or north or Tucker Rd. BA



Stand	Level 4 C	over Type	s	ize De	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments			
3	6120 - Lo	wland Ced	ar Po	oletimb	er Well	0.5	121	141-170	N/A		Small stand that established in the ditch located east of the old railroad			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	grade and narrow forest rd. Narrow area of NWC in south, north is a			
	hern White Cedar	55	Pole/Log/Sap	8	121		ck Spruce	Medium	10 - 20 feet	Sapling	broad mixture of species. Cored a 15.0" RP that aged 121yrs. Tried coring a few NWC, they weren't sound. Estimated the age of the QA,			
C	Quaking Aspen	10	Log	13	70	Qual	king Aspen	Low	>20 feet	Sapling	based upon the dominate age located in Stand 1. Eastern boundary			
	Red Pine	16	Log/XLog/Pole	16	121	Pa	per Birch	Low	>20 feet	Sapling	travels quickly upslope into Stand 1. I bet this stand could tell some interesting stories.			
	Paper Birch	5	Pole/Log	8		R	ed Pine	Low	Variable	Sapling	interesting stones.			
	Balsam Fir	5	Pole/Sapling	7		Re	ed Maple	Medium	10 - 20 feet	Sapling				
	Black Spruce	4	Pole/Sapling	7		Ва	ılsam Fir	Medium	10 - 20 feet	Sapling				
	Tamarack	2	Pole	7		Bla	ck Cherry	Low	5 - 10 feet	Sapling				
	White Pine	3	Log/XLog	15		Ja	ack Pine	Low	>20 feet	Sapling				
					'	Blac	ck Spruce	Low	< 5 feet	Seeding				
						Ta	ag Alder	Medium	5 - 10 feet	Tall Shrub				
4		- Aspen			er Well	11.9	59	81-110	N/A		McDonald '11: Stand Year Origin was 1966 JSP '21: Cored a 5.9" BTA having a '62 year of origin (59yrs old in '21),			
	Canopy Species	% Cover			l Age		nopy Species		Avg. Height	Size	slightly older than McDonald's claim. Aspen stems toggle between area			
B	Bigtooth Aspen	66	Pole/Log/Sap	8	59		hite Oak	Trace	10 - 20 feet	Sapling				
	Red Maple	15	Pole/Sap/Log	6			ack Pine	Trace	>20 feet	Sapling	of xlog/some legacy RO (28"). Two/trace WO (log) observed on SW and			
	Red Oak	12	XLog/Log/Pole		95		hite Pine	Medium	10 - 20 feet	Sapling	SE boundary. Decent advanced RO regen scattered throughout but a b			
	Red Pine	4	Pole/Log	8			ed Maple	Medium	>20 feet	Sapling				
	White Pine	3	Pole/Sapling	7			ed Oak	Medium	10 - 20 feet	Sapling	generally near/on/along western boundary, some present elsewhere. Most RM 'off-the-stump' running large sap/small pole, a few logs preser			
							ck Spruce	Low	10 - 20 feet	Sapling	in south. BA swings= 70,100,110,80,60,100 (86avg)			
								Medium	5 - 10 feet	Sapling				
							Isam Fir	Low	10 - 20 feet	Sapling				
							ılsam Fir	Low	< 5 feet	Seeding				
							hite Pine	Low	< 5 feet	Seeding				
							ed Pine	Medium	< 5 feet	Seeding				
						Blad	ck Spruce	Trace	< 5 feet	Seeding				
5	42220 - Nat	ural Jack F	Pine Po	oletimb	er Well	2.8	27	51-80	N/A		McDonald '11: Stand Year Origin was 1994			
(Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	JSP '21: Old railroad grade is more/less the western boundary. The are surrounding the grade is somewhat terraced, it steps 'up and down' fror			
	Jack Pine	78	Pole/Sapling	6	27	W	hite Pine	Medium	10 - 20 feet	Sapling	the grade itself. The grade funnels seasonally excessive water north,			
	Red Pine	5	Log/XLog	15		R	ed Pine	Low	5 - 10 feet	Sapling	from Stand 69, through this stand, then dumps into the boot-shaped are			
	Balsam Fir	5	Pole/Sapling	5		Ва	Isam Fir	Medium	10 - 20 feet	Sapling	of Stand 409. When water levels are really high, they overflow the channel and move into a few small low spots/retention-pond' areas with			
	White Pine	5	Log/Pole/XLog	10		Re	ed Maple	Low	10 - 20 feet	Sapling	this stand. These small holding areas are open/non-forested, some had			
	Red Maple	3	Pole/Sapling	6		Ja	ack Pine	Low	10 - 20 feet	Sapling	tag alder/dogwood. Scattered larger WP/RP on perimeter, some locate			
C	Quaking Aspen	3	Pole/Sapling	6		Blac	ck Spruce	Low	5 - 10 feet	Sapling	within the stand. A steeper slope present on east, against Stand 67, is sandy/has eroded in areas. Not caused by humans, believe animal usa			
r	White Spruce	1	Log	12		R	Black Spruce Red Oak		10 - 20 feet	Sapling				
	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT		9		1 11	1 1	eu Oak	Trace	10 20 1001	Capiling	has contributed to erosion though. BA swings= 50,100,100 (83avg)			

Tag Alder

Tall Shrub

5 - 10 feet

Medium



nd	Level 4 C	over Type	S		- 7	Acres	Stand Age B		Managed S	oite	General Comments	
	42220 - Nat	tural Jack P	ine S	Sapling	Well	17.9	27 I	mmature	N/A		Mostly fully-stocked stand of jack pine regeneration, in some areas the	
Ca	anopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	regeneration is very thick. There are some scattered clumps of larger jack pine that were left throughout. There are also a few clumps of	
В	Black Spruce	3	Pole/Sapling	5		Ва	ılsam Fir	Trace	5 - 10 feet	Sapling	spruce/fir that were left along the southern edge. A few small clones of	
-	Balsam Fir	5	Pole/Sapling	5		Blac	ck Spruce	Trace	5 - 10 feet	Sapling	bigtooth aspen are present, mostly along the northern stand edge.	
Big	igtooth Aspen	13	Sapling	3		Re	ed Maple	Trace	5 - 10 feet	Sapling		
١	White Pine	2	Pole/Log	8		Blad	ck Cherry	Low	Variable	Tall Shrub		
I	Red Maple	3	Sapling	3								
	Jack Pine	74	Sapling/Pole	3	27							
	4130	- Aspen	Po	letimb	er Well	11.4	60	81-110	N/A		McDonald '11: Stand Year Origin was 1966 JSP '21: Aged a 5.0" BTA at 60yrs, this is a 5yr difference from	
Ca	anopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	McDonalds age above. Stand is 2-aged, left RO/WO when harvest in the	
Biç	igtooth Aspen	60	Pole/Sap/Log	7	60	Re	ed Maple	Medium	10 - 20 feet	Sapling	60's (legacy RO present, found one 26"). Variable aspen	
I	Red Maple	15	Sapling/Pole	4		R	ed Oak	Low	10 - 20 feet	Sapling	diameters/merchantability. ~West 1/2 tended to be hold larger, more	
	Red Oak	10	Log/XLog/Pole	16	95	Wh	hite Pine	Low	10 - 20 feet	Sapling	merch P/L BTA. Somewhat ~less oak residual in west too. In east 1/2, aspen tended to be S/P or P/S, clumpy/patchier stocking and more	
	Red Pine	4	Pole/Sap/Log	7		R	ed Pine	Low	10 - 20 feet	Sapling	scattered/or clumps of residual oak. RP from adjacent plantation (Std.2)	
	Jack Pine	4	Pole/Log	8		WI	hite Oak	Low	10 - 20 feet	Sapling	'spills-over' into this stand in some perimeter areas (most of these RP are	
١	White Oak	4	Log/XLog/Pole	16							P/S). Then a trace amount of natural log sized RP within this stand.	
	White Pine	3	Pole	7							Small area of decent WO regen in SE (~0.2ac), ranged 5-20ft. Old/new elk browse/rub/teeth damage on many RM saps. RM saps 'high' in areas BA swings= 90,100,50,40,120,90 (81avg)	
\	White Pine 4133 - Aspe	an, Mixed P	Pole ine Po	7	er Well	17.8	38	51-80	N/A	Sizo	Small area of decent WO regen in SE (~0.2ac), ranged 5-20ft. Old/new elk browse/rub/teeth damage on many RM saps. RM saps 'high' in areas BA swings= 90,100,50,40,120,90 (81avg) McDonald '11: Stand Year Origin was 1983JSP '21: Same Rx history as Stands 10,11,29 (all four previously one stand). Aspen/RM diameters car	
Ca	White Pine 4133 - Aspe	en, Mixed P	Pole ine Po	7 letimb	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Small area of decent WO regen in SE (~0.2ac), ranged 5-20ft. Old/new elk browse/rub/teeth damage on many RM saps. RM saps 'high' in areas BA swings= 90,100,50,40,120,90 (81avg) McDonald '11: Stand Year Origin was 1983JSP '21: Same Rx history as Stands 10,11,29 (all four previously one stand). Aspen/RM diameters car vary quite dramatically in this stand. Aspen poles (some logs) more	
Ca Big	White Pine 4133 - Aspecanopy Species igtooth Aspen	en, Mixed P **Cover** 50	Pole ine Po Size Class Pole/Sap/Log	7 eletimb		Sub-Ca	nopy Species hite Pine	Density Medium	Avg. Height 10 - 20 feet	Sapling	Small area of decent WO regen in SE (~0.2ac), ranged 5-20ft. Old/new elk browse/rub/teeth damage on many RM saps. RM saps 'high' in areas BA swings= 90,100,50,40,120,90 (81avg) McDonald '11: Stand Year Origin was 1983JSP '21: Same Rx history as Stands 10,11,29 (all four previously one stand). Aspen/RM diameters car vary quite dramatically in this stand. Aspen poles (some logs) more common in the area around Stand 404 (G0), patchy stocking there and	
Ca Biç Qu	White Pine 4133 - Aspectanopy Species igtooth Aspen uaking Aspen	9 mixed P mixe	Pole ine Po Size Class Pole/Sap/Log Pole/Sap/Log	7 eletimb	Age	Sub-Ca Wh Ja	nopy Species hite Pine ack Pine	Density Medium Low	Avg. Height 10 - 20 feet >20 feet	Sapling Sapling	Small area of decent WO regen in SE (~0.2ac), ranged 5-20ft. Old/new elk browse/rub/teeth damage on many RM saps. RM saps 'high' in areas BA swings= 90,100,50,40,120,90 (81avg) McDonald '11: Stand Year Origin was 1983JSP '21: Same Rx history as Stands 10,11,29 (all four previously one stand). Aspen/RM diameters car vary quite dramatically in this stand. Aspen poles (some logs) more common in the area around Stand 404 (G0), patchy stocking there and had more more to grow. Poles also a bit more common along watercourse Stand 10. North 1/2 of stand begins a gradual climb up-hill	
Ca Biç Qu	White Pine 4133 - Aspe Canopy Species igtooth Aspen uaking Aspen Red Maple	3 en, Mixed P	Pole ine Po Size Class Pole/Sap/Log Pole/Sap/Log Pole/Sap/Log	7 7 DBH 6 7 5	Age 38	Sub-Ca Wh Ja Re	nopy Species hite Pine ack Pine ed Maple	Density Medium Low Medium	Avg. Height 10 - 20 feet >20 feet >20 feet	Sapling Sapling Sapling	Small area of decent WO regen in SE (~0.2ac), ranged 5-20ft. Old/new elk browse/rub/teeth damage on many RM saps. RM saps 'high' in areas BA swings= 90,100,50,40,120,90 (81avg) McDonald '11: Stand Year Origin was 1983JSP '21: Same Rx history as Stands 10,11,29 (all four previously one stand). Aspen/RM diameters car vary quite dramatically in this stand. Aspen poles (some logs) more common in the area around Stand 404 (G0), patchy stocking there and had more more to grow. Poles also a bit more common along watercourse Stand 10. North 1/2 of stand begins a gradual climb up-hill until reaching a plateau heavy w/RO residual (O7/8 stocking). The south-	
Ca Big Qu	White Pine 4133 - Aspe Canopy Species igtooth Aspen uaking Aspen Red Maple Red Oak	9 3 en, Mixed P 6 Cover 50 4 14 10	Pole ine Pole Size Class Pole/Sap/Log Pole/Sap/Log Pole/Sapling Log/XLog/Pole	7	Age	Sub-Ca Wh Ja Re	nopy Species hite Pine ack Pine ed Maple ed Oak	Density Medium Low Medium Low	Avg. Height 10 - 20 feet >20 feet >20 feet >20 feet	Sapling Sapling Sapling Sapling	Small area of decent WO regen in SE (~0.2ac), ranged 5-20ft. Old/new elk browse/rub/teeth damage on many RM saps. RM saps 'high' in areas BA swings= 90,100,50,40,120,90 (81avg) McDonald '11: Stand Year Origin was 1983JSP '21: Same Rx history as Stands 10,11,29 (all four previously one stand). Aspen/RM diameters car vary quite dramatically in this stand. Aspen poles (some logs) more common in the area around Stand 404 (G0), patchy stocking there and had more more to grow. Poles also a bit more common along watercourse Stand 10. North 1/2 of stand begins a gradual climb up-hill until reaching a plateau heavy w/RO residual (O7/8 stocking). The southfacing slope and 'plateau' have sap/some pole aspen/RM, could honestly	
Cá Big Qu	White Pine 4133 - Aspectanopy Species igtooth Aspen uaking Aspen Red Maple Red Oak White Pine	3 en, Mixed P % Cover 50 4 14 10 12	Pole ine Pole Size Class Pole/Sap/Log Pole/Sap/log Pole/Sapling Log/XLog/Pole Log/Pole	7 DBH 6 7 5 15	Age 38	Sub-Ca Wh Ja Re R	nnopy Species hite Pine ack Pine ed Maple ed Oak alsam Fir	Density Medium Low Medium Low Low Low	Avg. Height 10 - 20 feet >20 feet >20 feet >20 feet Variable	Sapling Sapling Sapling Sapling Sapling	Small area of decent WO regen in SE (~0.2ac), ranged 5-20ft. Old/new elk browse/rub/teeth damage on many RM saps. RM saps 'high' in areas BA swings= 90,100,50,40,120,90 (81avg) McDonald '11: Stand Year Origin was 1983JSP '21: Same Rx history as Stands 10,11,29 (all four previously one stand). Aspen/RM diameters cal vary quite dramatically in this stand. Aspen poles (some logs) more common in the area around Stand 404 (G0), patchy stocking there and had more more to grow. Poles also a bit more common along watercourse Stand 10. North 1/2 of stand begins a gradual climb up-hill until reaching a plateau heavy w/RO residual (O7/8 stocking). The southfacing slope and 'plateau' have sap/some pole aspen/RM, could honestly be its own small stand. Deciduous, except oak, appears offsite/were mostly poor form/quality, likely heavily browsed when young. A ~2.5ac	
Ca Big Qu	White Pine 4133 - Aspectanopy Species igtooth Aspen uaking Aspen Red Maple Red Oak White Pine Red Pine	3 en, Mixed P % Cover 50 4 14 10 12 5	Pole Size Class Pole/Sap/Log Pole/Sap/Log Pole/Sapling Log/XLog/Pole Log/Pole	7 DBH 6 7 5 15 14 14	Age 38	Sub-Ca Wh Ja Re R	nopy Species hite Pine ack Pine ed Maple ed Oak	Density Medium Low Medium Low	Avg. Height 10 - 20 feet >20 feet >20 feet >20 feet	Sapling Sapling Sapling Sapling	Small area of decent WO regen in SE (~0.2ac), ranged 5-20ft. Old/new elk browse/rub/teeth damage on many RM saps. RM saps 'high' in areas BA swings= 90,100,50,40,120,90 (81avg) McDonald '11: Stand Year Origin was 1983JSP '21: Same Rx history as Stands 10,11,29 (all four previously one stand). Aspen/RM diameters ca vary quite dramatically in this stand. Aspen poles (some logs) more common in the area around Stand 404 (G0), patchy stocking there and had more more to grow. Poles also a bit more common along watercourse Stand 10. North 1/2 of stand begins a gradual climb up-hill until reaching a plateau heavy w/RO residual (O7/8 stocking). The southfacing slope and 'plateau' have sap/some pole aspen/RM, could honestly be its own small stand. Deciduous, except oak, appears offsite/were mostly poor form/quality, likely heavily browsed when young. A ~2.5ac strip along the northern boundary (west portion on a gradual slope) is	
Ca Big Qu	White Pine 4133 - Aspectanopy Species igtooth Aspen uaking Aspen Red Maple Red Oak White Pine	3 en, Mixed P % Cover 50 4 14 10 12	Pole ine Pole Size Class Pole/Sap/Log Pole/Sap/log Pole/Sapling Log/XLog/Pole Log/Pole	7 DBH 6 7 5 15	Age 38	Sub-Ca Wh Ja Re R	nnopy Species hite Pine ack Pine ed Maple ed Oak alsam Fir	Density Medium Low Medium Low Low Low	Avg. Height 10 - 20 feet >20 feet >20 feet >20 feet Variable	Sapling Sapling Sapling Sapling Sapling	Small area of decent WO regen in SE (~0.2ac), ranged 5-20ft. Old/new elk browse/rub/teeth damage on many RM saps. RM saps 'high' in areas BA swings= 90,100,50,40,120,90 (81avg) McDonald '11: Stand Year Origin was 1983JSP '21: Same Rx history as Stands 10,11,29 (all four previously one stand). Aspen/RM diameters ca vary quite dramatically in this stand. Aspen poles (some logs) more common in the area around Stand 404 (G0), patchy stocking there and had more more to grow. Poles also a bit more common along watercourse Stand 10. North 1/2 of stand begins a gradual climb up-hill until reaching a plateau heavy w/RO residual (O7/8 stocking). The south facing slope and 'plateau' have sap/some pole aspen/RM, could honestly be its own small stand. Deciduous, except oak, appears offsite/were mostly poor form/quality, likely heavily browsed when young. A ~2.5ac	

Pigeon River Country Mgt. Unit



Stand	d Level 4 C	Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		General Comments						
10	6112 - Lo	wland Aspe	en Po	oletimb	er Wel	1 7.7 38	51-80	N/A		McDonald '11: Stand Year Origin was 1983.JSP '21: Same Rx history
	Canopy Species	% Cover	Size Class	DBI	I Age	Sub-Canopy Species	Density	Avg. Height	Size	as Stands 8,11,29 (all four previously one stand). This stand is a seasonal watercourse, originates on State to SE. Flows across PVT, then
	Quaking Aspen	45	Pole/Log/Sap	9	38	American Elm	Low	>20 feet	Sapling	west through this stand, across PVT/State, and all the way into Stand 23
	Bigtooth Aspen	4	Pole/Log	9		American Elm	Trace	>20 feet	Pole	when conditions are excessively wet. Very likely dry during most times,
	Red Oak	3	Log/XLog	16	84	Balsam Poplar	Low	10 - 20 feet	Sapling	happened to have flowing water during my visit to this area over the course of a few days (OFS w/pics available). Generally dominated by P/L
	Red Maple	5	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling	or L/P QA and BAM. Minor components of several other species,
	Balsam Poplar	32	Log/Pole/Sap	10		Red Maple	Low	>20 feet	Sapling	including trace AmElm, JP and RP listed above. Harvested in '83, this
	Balsam Fir	3	Pole/Sapling	7		Red Oak	Low	>20 feet	Sapling	stand has put of diameter faster, given lack of residual stems to compete with and having 'direct access' to water. Canopy dissipates in west, stand
	White Pine	4	Log/Pole	11		Sugar Maple	Trace	>20 feet	Sapling	becomes grassy w/scat aspen/conifer. Couldn't locate survey corner
	Paper Birch	2	Pole	9		White Pine	Low	Variable	Sapling	along PVT, there is/are PVC rods along that interface. BA swings=
	Jack Pine	1	Log/Pole	10		Black Spruce	Trace	5 - 10 feet	Sapling	70,90,100,60 (80avg)
	Red Pine	1	Pole	8		Beech	Low	5 - 10 feet	Sapling	
						Honeysuckle (spp.)	Medium	< 5 feet	Tall Shruk	
						Red Osier Dogwood	Medium	< 5 feet	Tall Shrub	
						Serviceberry (Juneberry)	Medium	10 - 20 feet	Sapling	
						Black Cherry	Low	5 - 10 feet	Sapling	
						Black Ash	Low	>20 feet	Sapling	
	Canopy Species	onifer % Cover	Size Class	DBI	I Age	Sub-Canopy Species	Density	Avg. Height	Size	Stands 8,10,29 (all four formally one stand). Regeneration from '83 harvest is the featured class for this stand, though at least 2-age classes are present. Here set left BO WB BB in this stand. BO in the most
	Bigtooth Aspen	35	Sapling/Pole	4	38	Ironwood	Medium	10 - 20 feet	Sapling	are present. Harvest left RO,WP,RP in this stand, RO is the most consistent residual, the WP/RP mainly present in center/then in eastern
	Quaking Aspen	4	Pole/Sapling	6		Hemlock	Trace	5 - 10 feet	Sapling	areas. Broad range of species and DBH's across the regen layer.
	Red Maple	20	Sapling/Pole	4		Black Spruce	Low	Variable	Sapling	Toggled between sap/pole size (residuals mixing in, in most areas), then pole/sap in other areas. NW had a clone of reliably pole sized BTA.
	Sugar Maple	4	Sapling/Pole	4				li .		Stand as a whole should slowly convert to overall pole sized within next
	Red Oak	10	XLog/Log/Pole	18	84					10-20yrs. BA swings= 40,40,100,60,40 (56avg)
	Paper Birch	4	Sapling/Pole	4						
	Balsam Fir	12	Pole/Sapling	5						
	White Pine	8	Pole/Sap/Log	8						
12	6122 - RI	ack Spruce	- Pr	oletim	er Wel	l 22.9 76	111-140	N/A		McDonald '11: OI Stand Year Origin was 1945
12		·								SSP '21: Mostly saw the south 1/2. Primarily spruce dominant (variable
	Canopy Species		Size Class		I Age	Sub-Canopy Species	Density	Avg. Height	Size	DBH's) w/smaller patches of isolated tip-up/windthrow. Alder common,
	Black Spruce	66	Pole/Sap/Log	7	76	Balsam Fir	Medium	Variable	Sapling	heavier in windthrow patches. Spongy moss covered ground that was wet/damp during visit. Transitional perimeter was briefly 'upland' and held
	Tamarack	10	Pole/Log/Sap	7		Tag Alder	Medium	5 - 10 feet	Tall Shruk	the JP,RP,WP component. Tamarack appeared to increase in northern
	Balsam Fir	10	Pole/Sapling	6		Black Spruce	Medium	Variable	Sapling	areas. Seasonal watercourses present. Observed trace PB.
	Jack Pine	5	Pole/Log	8		Sphagnum Moss	High	Unspecified	Non-Wood	
	Red Pine	3	Log/XLog/Pole							
	White Pine	3	Log/Pole/XLog	15						
No	orthern White Cedar	3	Pole/Log	8						



Stand	Level 4 C	over Type	S	ize Density	Acres Stand Age B	A Range	Managed S	Site	General Comments
13	320 - Up	oland Shrub)	Nonstocked	1.4 36	mmature	No		Narrow non-forested strip adjacent to a lowland conifer stand. Not many
					Sub-Canopy Species	Density	Avg. Height	Size	trees growing in the stand. A few patches of leatherleaf are present. Ground cover is dominated by reindeer moss in most areas.
					Jack Pine	Low	>20 feet	Pole	Ground cover is dominated by remoter most in most areas.
					Black Spruce	Low	>20 feet	Pole	
					Black Spruce	Trace	Variable	Sapling	
					Jack Pine	Trace	Variable	Sapling	
					Red Pine	Trace	Variable	Sapling	
					Red Maple	Trace	Variable	Sapling	
					Jack Pine	Trace	< 5 feet	Seeding	
					Red Pine	Trace	< 5 feet	Seeding	
					Black Cherry	Trace	Variable	Tall Shrub	
					Leatherleaf	Medium	< 5 feet	Tall Shrub	
					Tamarack	Trace	>20 feet	Log	
14	42110 - Pla	inted Red P	Pine Saw	vtimber Medium	n 8.2 60	81-110	N/A		Stand was cut in 2017. Part of RJRJRJ Pine sale (53-010-13-01). The
С	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	north half of the stand is well-stocked and nice quality, with more poletimber size trees. The south half has much lower stocking, with red
	Red Pine	100	Log/Pole	10 60	Red Maple	Trace	< 5 feet	Sapling	pine that is larger but more limby. It looks like the south half had some
									jack pine in it and they were all removed during the harvest, which is the
15	4133 - Aspe	en, Mixed P	Pine Po	oletimber Well	6.7 36	81-110	N/A		<u> </u>
	4133 - Aspe						N/A Ava. Heiaht	Size	Moderate quality aspen with scattered clumps of planted red pine mixed in throughout. Aspen diameters vary considerably with some areas still
	4133 - Aspe Canopy Species Balsam Fir		Pine Po	DIBH Age	6.7 36 Sub-Canopy Species Red Maple		N/A Avg. Height Variable	Size Sapling	Moderate quality aspen with scattered clumps of planted red pine mixed in throughout. Aspen diameters vary considerably with some areas still having a lot of sub-merchantable stems. Best diameter growth can be
C	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species Red Maple	Density	Avg. Height		Moderate quality aspen with scattered clumps of planted red pine mixed in throughout. Aspen diameters vary considerably with some areas still having a lot of sub-merchantable stems. Best diameter growth can be found on the north side where aspen diameters are in the 6-8" classes. Average ba/acre from 5 plots = 98 square feet. This stand sits on an
C	Canopy Species Balsam Fir White Pine	% Cover	Size Class Pole	DBH Age 5 6	Sub-Canopy Species	Density Medium	Avg. Height Variable	Sapling	Moderate quality aspen with scattered clumps of planted red pine mixed in throughout. Aspen diameters vary considerably with some areas still having a lot of sub-merchantable stems. Best diameter growth can be found on the north side where aspen diameters are in the 6-8" classes. Average ba/acre from 5 plots = 98 square feet. This stand sits on an elevated knob with the highest point in the middle of the stand and slop
C	Canopy Species Balsam Fir	% Cover	Size Class Pole Pole	DBH Age	Sub-Canopy Species Red Maple	Density Medium	Avg. Height Variable	Sapling	Moderate quality aspen with scattered clumps of planted red pine mixed in throughout. Aspen diameters vary considerably with some areas still having a lot of sub-merchantable stems. Best diameter growth can be found on the north side where aspen diameters are in the 6-8" classes. Average ba/acre from 5 plots = 98 square feet. This stand sits on an
C	Canopy Species Balsam Fir White Pine Red Oak	% Cover 1 1 5	Pole Pole Log/XLog	5 6 15	Sub-Canopy Species Red Maple	Density Medium	Avg. Height Variable	Sapling	having a lot of sub-merchantable stems. Best diameter growth can be found on the north side where aspen diameters are in the 6-8" classes. Average ba/acre from 5 plots = 98 square feet. This stand sits on an elevated knob with the highest point in the middle of the stand and slope
C	Balsam Fir White Pine Red Oak Red Maple	% Cover 1 1 5 3	Pole Log/XLog Pole	5 6 15 5	Sub-Canopy Species Red Maple	Density Medium	Avg. Height Variable	Sapling	Moderate quality aspen with scattered clumps of planted red pine mixed in throughout. Aspen diameters vary considerably with some areas still having a lot of sub-merchantable stems. Best diameter growth can be found on the north side where aspen diameters are in the 6-8" classes. Average ba/acre from 5 plots = 98 square feet. This stand sits on an elevated knob with the highest point in the middle of the stand and slop
	Balsam Fir White Pine Red Oak Red Maple Red Pine igtooth Aspen	% Cover 1 1 5 3 25	Pole Pole Log/XLog Pole Log/Pole Pole/Sapling	DBH Age 5 6 15 5 11 60	Sub-Canopy Species Red Maple Black Cherry	Density Medium	Avg. Height Variable	Sapling	Moderate quality aspen with scattered clumps of planted red pine mixed in throughout. Aspen diameters vary considerably with some areas still having a lot of sub-merchantable stems. Best diameter growth can be found on the north side where aspen diameters are in the 6-8" classes. Average ba/acre from 5 plots = 98 square feet. This stand sits on an elevated knob with the highest point in the middle of the stand and slop going down in all directions from there. Heavy deer use in the stand. Scattered red and jack pine are mixed in throughout this U type. A few
Bi	Balsam Fir White Pine Red Oak Red Maple Red Pine igtooth Aspen	% Cover 1 1 5 3 25 65	Pole Pole Log/XLog Pole Log/Pole Pole/Sapling	DBH Age 5 6 15 5 11 60 36	Sub-Canopy Species Red Maple Black Cherry	Density Medium Trace Inspecified	Avg. Height Variable Variable	Sapling	Moderate quality aspen with scattered clumps of planted red pine mixed in throughout. Aspen diameters vary considerably with some areas still having a lot of sub-merchantable stems. Best diameter growth can be found on the north side where aspen diameters are in the 6-8" classes. Average ba/acre from 5 plots = 98 square feet. This stand sits on an elevated knob with the highest point in the middle of the stand and slop going down in all directions from there. Heavy deer use in the stand. Scattered red and jack pine are mixed in throughout this U type. A few areas of jack pine saplings as well. Lots of reindeer moss at the ground
Bi	Balsam Fir White Pine Red Oak Red Maple Red Pine igtooth Aspen	% Cover 1 1 5 3 25 65	Pole Pole Log/XLog Pole Log/Pole Pole/Sapling	DBH Age 5 6 15 5 11 60 36	Sub-Canopy Species Red Maple Black Cherry 9.3	Density Medium Trace Inspecified	Avg. Height Variable Variable No	Sapling Tall Shrub	Moderate quality aspen with scattered clumps of planted red pine mixed in throughout. Aspen diameters vary considerably with some areas still having a lot of sub-merchantable stems. Best diameter growth can be found on the north side where aspen diameters are in the 6-8" classes. Average ba/acre from 5 plots = 98 square feet. This stand sits on an elevated knob with the highest point in the middle of the stand and slop going down in all directions from there. Heavy deer use in the stand. Scattered red and jack pine are mixed in throughout this U type. A few
Bi	Balsam Fir White Pine Red Oak Red Maple Red Pine igtooth Aspen	% Cover 1 1 5 3 25 65	Pole Pole Log/XLog Pole Log/Pole Pole/Sapling	DBH Age 5 6 15 5 11 60 36	Sub-Canopy Species Red Maple Black Cherry 9.3 U Sub-Canopy Species	Density Medium Trace Inspecified Density	Avg. Height Variable Variable No Avg. Height	Sapling Tall Shrub	Moderate quality aspen with scattered clumps of planted red pine mixed in throughout. Aspen diameters vary considerably with some areas still having a lot of sub-merchantable stems. Best diameter growth can be found on the north side where aspen diameters are in the 6-8" classes. Average ba/acre from 5 plots = 98 square feet. This stand sits on an elevated knob with the highest point in the middle of the stand and slop going down in all directions from there. Heavy deer use in the stand. Scattered red and jack pine are mixed in throughout this U type. A few areas of jack pine saplings as well. Lots of reindeer moss at the ground.
Bi	Balsam Fir White Pine Red Oak Red Maple Red Pine igtooth Aspen	% Cover 1 1 5 3 25 65	Pole Pole Log/XLog Pole Log/Pole Pole/Sapling	DBH Age 5 6 15 5 11 60 36	Sub-Canopy Species Red Maple Black Cherry 9.3 U Sub-Canopy Species Red Pine	Medium Trace Inspecified Density Low	Avg. Height Variable Variable No Avg. Height >20 feet	Sapling Tall Shrub Size Log	Moderate quality aspen with scattered clumps of planted red pine mixe in throughout. Aspen diameters vary considerably with some areas still having a lot of sub-merchantable stems. Best diameter growth can be found on the north side where aspen diameters are in the 6-8" classes. Average ba/acre from 5 plots = 98 square feet. This stand sits on an elevated knob with the highest point in the middle of the stand and slop going down in all directions from there. Heavy deer use in the stand. Scattered red and jack pine are mixed in throughout this U type. A few areas of jack pine saplings as well. Lots of reindeer moss at the ground.
Bi	Balsam Fir White Pine Red Oak Red Maple Red Pine igtooth Aspen	% Cover 1 1 5 3 25 65	Pole Pole Log/XLog Pole Log/Pole Pole/Sapling	DBH Age 5 6 15 5 11 60 36	Sub-Canopy Species Red Maple Black Cherry 9.3 U Sub-Canopy Species Red Pine Red Pine	Medium Trace Inspecified Density Low Trace	Avg. Height Variable Variable No Avg. Height >20 feet >20 feet	Sapling Tall Shrub Size Log Pole	Moderate quality aspen with scattered clumps of planted red pine mixed in throughout. Aspen diameters vary considerably with some areas still having a lot of sub-merchantable stems. Best diameter growth can be found on the north side where aspen diameters are in the 6-8" classes. Average ba/acre from 5 plots = 98 square feet. This stand sits on an elevated knob with the highest point in the middle of the stand and slop going down in all directions from there. Heavy deer use in the stand. Scattered red and jack pine are mixed in throughout this U type. A few areas of jack pine saplings as well. Lots of reindeer moss at the ground



Stand	Level 4 Cover Type			Size Density		Acres	Stand Age	BA Range	Managed Site		General Comments	
17	42110 - Planted Red Pine		ine S	Sawtimber Mediun		n 5.0	61	111-140	N/A		Small red pine plantation that doesn't look like it has had a treatment	
Ca	anopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	before. Stocking and quality is variable. The middle of the stand is well- stocked with good quality red pine but the east end has much lower	
В	lack Cherry	1	Pole	8		Re	ed Maple	Low	Variable	Sapling		
Qu	aking Aspen	4	Pole	7		Bla	ck Cherry	Low	Variable	Tall Shrub		
	Jack Pine	6	Pole/Log	8		Servicebe	erry (Juneberr	ry) Trace	10 - 20 feet	Tall Shrub	edge of the stand closer to the west end. Average ba/acre of the stand from 5 plots = 116 square feet. Terrain slopes gradually up to the east.	
ı	Red Maple	4	Pole/Log	8					li .		Thom 5 plots - 110 square leet. Terrain slopes gradually up to the east.	
	Red Pine	85	Log/Pole	12	61							

18 3303 - Mixed Low Density Trees Nonstocked 37.2 0

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	< 5 feet	Seeding
Bigtooth Aspen	Medium	< 5 feet	Seeding
Red Pine	Medium	< 5 feet	Seeding
Balsam Fir	Trace	< 5 feet	Seeding
Red Oak	Low	< 5 feet	Seeding
Red Maple	Medium	< 5 feet	Seeding
Beech	Trace	< 5 feet	Seeding
Black Cherry	Low	< 5 feet	Seeding

Unspecified 42290 - Natural Mixed Pine Stand was cut in 2017 as part of the RJRJRJ Pine sale (53-010-13-01). It looks like the tops were chipped and moderate scarification took place. Scattered residual red pine were left as well as a couple of oak, BAs are under 10 square feet. Regeneration has come back primarily to aspen, red maple, and pine at this point. Pine regeneration is "clumpy" and tends to be most prevalent in the heavily scarified skid trails. There are some areas where red pine appears to be coming in well. The red maple is being heavily browsed as is most of the aspen. Some oak seedlings are present but they too are being heavily browsed and most appear close to death. Jack pine regeneration appears to be more widespread than what the regen survey results indicate, maybe just bad luck in plot placement. In general, regeneration of pine is more abundant in the north half of the stand. Regeneration is lacking in areas of the southern 1/3rd of the stand.

> Regen survey results (14 1/100th acre plots, avg height in parentheses): jack pine 114 TPA (1'), bigtooth aspen 471 TPA (3.5'), red pine 428 TPA (6"), red maple 557 TPA (2'), red oak 129 TPA (1.5'), black cherry 36 TPA (2.5'), balsam fir 7 TPA (1'), beech 14 TPA (1').

McDonald '11: Stand Year Origin was 1966

19	4131 - Aspen, Oak Poletimbe				er Wel	l 11.5	51	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Bigtooth Aspen	45	Pole/Sap/Log	8	51	Red	d Pine	Low	< 5 feet	Seeding	
	Red Maple	20	Pole/Sap/Log	6		Jac	k Pine	Low	10 - 20 feet	Sapling	
	Red Oak	14	Log/XLog/Pole	15		Whit	te Pine	Medium	10 - 20 feet	Sapling	
	White Pine	4	Pole	7		Red	Maple	High	>20 feet	Sapling	
	Jack Pine	5	Pole/Log	8		Bigtoo	th Aspen	Medium	>20 feet	Sapling	
	Red Pine	4	Log/Pole/XLog	11		White	Spruce	Trace	Variable	Sapling	
	White Oak	6	Log/XLog	16	107	Red	d Pine	Low	10 - 20 feet	Sapling	
	Balsam Fir	2	Pole/Sapling	6		Bals	am Fir	Low	10 - 20 feet	Sapling	
						Red	d Oak	Medium	10 - 20 feet	Sapling	
						Whi	te Oak	Low	10 - 20 feet	Sapling	
						Common Lov	vbush Bluebe	rry Low	< 5 feet	Tall Shrub	

JSP '21: Aged a 5.1" BTA as having a '70 year of origin (51yrs old in '21), so ages differ slightly from McDonald's claim. Merchantability/diameters of ~'66 regen starts out lower/smaller in south & east, then graduates into more merch/larger stems as you move west & north. South & east areas commonly held pockets/patchy BTA clones averaging 6-8", saps present and some scattered larger pole/and logs closer to RP Stand 48. In west & north, BTA still patchy/clonal with larger poles/then logs becoming common. Majority of off-the-stump RM still large sap/small pole, a few larger stems scattered about. Overall minor component of scattered conifer. Previous harvest left all oak. For the compartment, this stand (and Std.81) hold the highest amount of white oak that I came across (xlogs common, 23",24"). Both oak species present appeared healthy. Canopy-closure on low-end of 75-100%. Narrow forest rd is the southern boundary. Regen south of the road (Std.81) is noticeably less merch, but has same Rx history as this stand. BA swings= 100,20,60,70,110,70

(71avg)

Report 7 - Stands

N/A

N/A



24 a d	Laval 4.0	T		S: D.		A	Ctand Ama D	A Dansa	Managadi	Dita.	Year of Entry: 2023		
Stand	Level 4 Co	over Type		Size Density		Acres Stand Age BA Range		A Kange	Managed Site		General Comments		
20	4139 - Aspen,	Mixed Deci	duous	Saplin	g Well	12.0	38	1-50	N/A		McDonald '11: Wildfire set this stand back, but aspen regeneration came in strong. Scattered oak throughout.		
(Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Strong. Scattered tak tirroughout. JSP '21: Regarding Rick's fire comment, believe I did see old plow-lines		
Е	Bigtooth Aspen	54	Sapling/Pole	4	38	R	ed Oak	Medium	10 - 20 feet	Sapling	along east and west boundaries. Unsure when the fire was/if a salvage		
	Red Maple	18	Sapling	3		Re	d Maple	High	10 - 20 feet	Sapling	then took place? Most aspen running the high-side of 4" or low-end of 5"		
	Red Oak	10	Sapling	4		Blac	k Cherry	Low	5 - 10 feet	Sapling	Except for a ~1.5ac wedge shaped piece in the NE, against RP Stand 2 Aspen is P/some log within that inclusion, unsure if fire/salvage missed		
	Red Oak	10	Log/XLog	16	95	Wh	ite Pine	Low	10 - 20 feet	Sapling	that area? Consistent RO regen (S/P) present. Some RO stems running		
	Red Pine	5	Log/Pole	14		Blac	k Spruce	Trace	< 5 feet	Seeding	right with the aspen (heights), then a 2nd stratified layer at 10-20ft tall.		
	White Pine	3	Pole/Sapling	7						1	Same story for RM stems. Some natural, log-sized RP present, then a couple planted RP clumps (P/L) near Stand 2. Scattered/consistent olde		
		, 1		'							RO residual. A few orphaned, log sized BTA awkwardly hanging out here/there in the stand. Fire/salvage must of missed these too. Trace JF (log). BA swings= 20,50,80,30,30 (42avg)		

35P 21: Regarding Rick's life comment, believe I did see old plow-lines
along east and west boundaries. Unsure when the fire was/if a salvage
then took place? Most aspen running the high-side of 4" or low-end of 5".
Except for a ~1.5ac wedge shaped piece in the NE, against RP Stand 2.
Aspen is P/some log within that inclusion, unsure if fire/salvage missed
that area? Consistent RO regen (S/P) present. Some RO stems running
right with the aspen (heights), then a 2nd stratified layer at 10-20ft tall.
Same story for RM stems. Some natural, log-sized RP present, then a
couple planted RP clumps (P/L) near Stand 2. Scattered/consistent older
RO residual. A few orphaned, log sized BTA awkwardly hanging out
here/there in the stand. Fire/salvage must of missed these too. Trace JP
(log). BA swings= 20,50,80,30,30 (42avg)

Compartment: 19

21	4319 - Mixed L	Sapling	Poor		
	Canopy Species	% Cove	r Size Class	DBH	Age
	Jack Pine	32	Sapling	1	3
	Quaking Aspen	14	Sapling	1	
	Red Maple	6	Sapling	1	
	Balsam Fir	5	Sapling	2	
	Black Cherry	26	Sapling/Pole	1	
	White Pine	5	Sapling	1	
	Red Pine	2	Sapling	1	
	Bigtooth Aspen	10	Sapling	1	

42290 - Natural Mixed Pine

22

Sub-Canopy Species	Density	Avg. Height	Size
Labrador Tea	Medium	< 5 feet	Tall Shrub
Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub

Immature

51-80

Low

Low

5 - 10 feet

< 5 feet

Tall Shrub

Tall Shrub

Harvest completed in '18. Regen survey conducted for STEMS 3FT and greater. Results for the nine (9) 1/100th acre plots were: JP: 500TPA. BlkCherry: 122TPA, BTA: 33TPA, QA: 355TPA, and RM: 66TPA. Initial impression is the stand is heading towards a moderate to low stocking level of conifer with mixed-deciduous.

Failed original survey and created a new survey for re-inventory in 2031. Regeneration is responding and has established in areas, but not across the entire stand. More time is needed determine the success or failure of regen. Jack pine seedlings were concentrated in southern portions of the stand, closer to Stand 92. There are a fair amount of JP seedlings just below 3ft that should recruit, again mainly in the south. Old railroad grade is essentially the east boundary. Aspen and red maple regeneration is concentrated around and near the grade, more decid regen present in north. Some browse damage present but most deciduous has grown above it. Center/central portion of stand is lacking regen, populated with blkchrry and some smaller conifer stems that weren't run-over during harvest. Some scattered WP/RP/RO residual, some in the north, most in east or along eastern boundary.

								
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	50	Pole/Sap/Log	8	53	White Oak	Trace	5 - 10 feet	Sapling
Red Pine	8	Log/XLog/Pole	15	88	Red Maple	Low	>20 feet	Sapling
White Pine	8	Pole/Log/XLog	8		White Pine	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	5	Pole/Log	9		Red Pine	Low	10 - 20 feet	Sapling
Black Spruce	20	Pole/Sap/Log	7		Balsam Fir	Medium	10 - 20 feet	Sapling
Red Maple	4	Pole/Sap/Log	7		Black Spruce	High	10 - 20 feet	Sapling
Balsam Fir	2	Pole/Sapling	6		Jack Pine	Medium	10 - 20 feet	Sapling
Tamarack	3	Pole/Log	9		Red Oak	Trace	10 - 20 feet	Sapling
					Black Cherry	High	5 - 10 feet	Sapling
					Black Spruce	Medium	< 5 feet	Seeding
					Tag Alder	Medium	5 - 10 feet	Tall Shrub
					Labrador Tea	Medium	< 5 feet	Tall Shrub

16.9

53

Wild Raisin

Leatherleaf

Poletimber Well

McDonald '11: Stand is a bog-type dominated by leatherleaf and other wetland shrubs.

JSP '21: Stand 92 formally part of this stand. Narrow stand running between Huckleberry Hallow Rd and Iowland Stands 9/23. In most areas, this stand is segmented into 3-additional N/S 'zones' of upland vs. lowland. The western zone extends ~1/2-chain (+,-) east of the road and is pretty much JP dominant. The center zone begins transitioning/mixing w/upland and lowland conifer types and soils. Quite certain areas of this central 'zone' seasonally hold/move water, these indicators are more apparent in the south (near/along Stand 9). Lab tea, alder, spruce, pit/mounds, standing water all present in areas during visit. The eastern 'zone' consists of small bouts of upland, and then transitional lowland w/up against Stand 23. Much more spruce in the central/eastern zones. Small piece west of the road is a mixture of conifer/aspen. Scattered 2nd/older age class of individual/and clumpy RP, then a few xlog/legacy WP. Trace PB (pole), WhtSprc (pole) and WO (log along Huckleberry Rd). BA swings= 60,60,70,80,70,60,50,100,40,110 (70avg)

Report 7 - Stands

Unspecified

N/A

N/A

Compartment: 19 Year of Entry: 2023



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

105

120

43.7

5.8

23	6129 - Mixed Conifer	rous Low	land Forest Pol	etimb	er Wel	ı
	Canopy Species	% Cove	r Size Class	DBH	Age	
No	rthern White Cedar	40	Pole/Log/Sap	8	105	
	Black Spruce	20	Pole/Log	8		
	White Spruce	5	Log/Pole	11		
	Balsam Fir	8	Pole/Sap/Log	7		
	Quaking Aspen	3	Log/XLog/Pole	14		
	Balsam Poplar	3	Log/Pole	12		
	White Pine	2	Log/XLog/Pole	16		
	Red Maple	5	Pole/Log	9		
	Paper Birch	4	Pole/Log	9		
	Tamarack	8	Pole/Log	8		

2

4199 - Other Mixed Upland Deciduous

Log/Pole/XLog

14

Poletimber Well

Red Pine

24

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	Low	>20 feet	Sapling
Black Spruce	Low	< 5 feet	Seeding

Old railroad grade in east. Transitional ground along most of the perimeter with a mixture of species including spruce, cedar, tamarack and white/red pine. Did not see all of this stand, areas observed were quite wet.

% Cove	r Size Class	DBH	Age
50	Log/Pole/XLog	11	120
25	Pole/Sapling	6	68
2	Pole	7	
2	Pole/Sapling	6	
10	Log/Pole/Sap	12	
2	Log/Pole/XLog	11	
3	Pole	8	
3	Pole/Sapling	6	
3	Pole/Sapling	6	
	50 25 2 2 10 2 3 3	50 Log/Pole/XLog 25 Pole/Sapling 2 Pole 2 Pole/Sapling 10 Log/Pole/Sap 2 Log/Pole/XLog 3 Pole 3 Pole/Sapling	50 Log/Pole/XLog 11 25 Pole/Sapling 6 2 Pole 7 2 Pole/Sapling 6 10 Log/Pole/Sap 12 2 Log/Pole/XLog 11 3 Pole 8 3 Pole/Sapling 6

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Trace	>20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Black Spruce	Trace	5 - 10 feet	Sapling
Jack Pine	Trace	10 - 20 feet	Sapling
Scotch Pine	Trace	5 - 10 feet	Sapling
Red Maple	High	>20 feet	Sapling
Red Oak	Low	10 - 20 feet	Sapling
Beech	Low	10 - 20 feet	Sapling
Ironwood	Low	10 - 20 feet	Sapling
Bigtooth Aspen	Low	>20 feet	Sapling
Sugar Maple	Medium	>20 feet	Sapling

81-110

Narrow ~20ac strip between private ownership was acquired in '92. This stand is similar to Stand 1 to west. Appears to of had a removal harvest ~70yrs ago that left all red oak. Though the oak aged 120ish years, most are still L/P sized (a few xlogs) and healthy. Could call the stand overall log sized. Stand sits on a high point, slopes down in north and south. Northern boundary is transitional, mixes with some JP/RP before leading into G0 Stand 400. Trace BF (pole). BA swings= 80,60,90,130 (90avg)



Stand	nd Level 4 Cover Type Size Density Acres Stand Age		BA Range	Managed \$	Site	General Comments					
25	25 42290 - Natural Mixed Pine			awtimb	er Well	3.3	101	81-110	N/A		Narrow 20ac 'block' acquired by State in '92.
	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Most of the area south of the forest rd used by private is a seasonally wet watercourse. This area holds the blksprc component mixed w/some pine,
	Red Pine	32	Log/XLog/Pole	15	101	Ва	alsam Fir	Trace	10 - 20 feet	Sapling	RM saps and alder. Center is upland pine mixing w/some aspen. Clump
	White Pine	32	Log/Pole/XLog	15		Bigto	ooth Aspen	Trace	>20 feet	Sapling	of 25" RP and some larger WP (one legacy) in center. Mixes briefly in
	Jack Pine	8	Pole/Log	9		Qua	king Aspen	Trace	>20 feet	Sapling	north with the younger stems found in Stand 27. BA swings= 150,110,50 (103avg)
	Black Spruce	8	Pole/Sapling	7		W	hite Pine	Medium	10 - 20 feet	Sapling	(103avg)
	Quaking Aspen	8	Pole/Sap/Log	8		Bla	ck Spruce	Medium	10 - 20 feet	Sapling	
	Bigtooth Aspen	10	Log/Pole/Sap	13	68	Re	ed Maple	Medium	10 - 20 feet	Sapling	
	Red Oak	2	Pole/Sapling	6		Pa	per Birch	Trace	>20 feet	Sapling	
						R	Red Oak	Low	>20 feet	Sapling	
						Bla	ck Cherry	Low	5 - 10 feet	Sapling	
						R	ed Pine	Trace	>20 feet	Sapling	
						Na	nnyberry	Low	5 - 10 feet	Tall Shrub	
						Wi	tch Hazel	Low	5 - 10 feet	Tall Shrub	
						Lab	rador Tea	Low	< 5 feet	Tall Shrub	
						Ta	ag Alder	Low	5 - 10 feet	Tall Shruk	
26	42210 - Nat	tural Red F	Pine Saw	vtimbei	· Medium	n 6.2	101	51-80	N/A		McDonald '11: Stand was selectively cut in 2004.
20	Canopy Species	% Cover	r Size Class		Age		nopy Species		Avg. Height	Size	JSP '21: A mix of regenerating pine and deciduous below a variably
	Red Pine	78	Log/XLog/Pole	_	101		ck Spruce	Low	< 5 feet	Seeding	stocked canopy of mostly RP. Overall canopy-closure on low-end of 50-75%, some areas higher, other brief areas w/no residual. Most aspen/RN
	White Pine	15	Log/Pole/XLog		101		ntergreen	High	< 5 feet	Tall Shrub	·
	Red Oak	2	Pole/Log	9			rador Tea	Low	< 5 feet	Tall Shruk	remainder of stand. JP regen mixing with lower components of sapling
	Black Spruce	4	Pole/Sapling	7			hite Oak	Trace	5 - 10 feet	Sapling	RP/WP. Some pole and sap blksprc present, mainly on west and in north. Intermittent/seasonal watercourse in south. This is a continuation
	Red Maple	1	Pole	6			ck Spruce	Low	Variable	Sapling	of Stand 10 to east, water flows west when conditions are excessively
			. 0.0				ooth Aspen	Low	5 - 10 feet	Sapling	wet (dry during visit(s)). BA swings= 50,90,110,50,0 (60avg)
							king Aspen	Medium	10 - 20 feet	Sapling	
							ed Maple	Low	10 - 20 feet	Sapling	
							ck Cherry	Low	5 - 10 feet	Sapling	
							ack Pine	Medium	10 - 20 feet	Sapling	
							ted Pine	Medium	5 - 10 feet	Sapling	
							hite Pine	Medium	10 - 20 feet	Sapling	
							alsam Fir	Low	Variable	Sapling	
							hite Pine	Low	< 5 feet	Seeding	
							ted Pine	Medium	< 5 feet	Seeding	
											1

5 - 10 feet

Low

Tall Shrub

Tag Alder



											rear of Entry: 2023
Stan	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments
27	4139 - Aspen,	Mixed Dec	iduous	Sapling	Sapling Well		30	1-50	N/A		Brief area that has some younger 30yr old S/P and P/S aspen and RM.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	Some older stems mixing in on north and south boundary. WP saps present. McDonald commented that the younger aspen/RM was cut
	Red Pine	3	Log/Pole	12	101	Bla	ick Cherry	Low	5 - 10 feet	Sapling	'90/91 when this area was owned by private. BA swing= 50
	White Pine	8	Sapling	4		F	Red Pine	Trace	>20 feet	Sapling	, ,
	Jack Pine	3	Pole/Log	9	68	Wi	tch Hazel	Low	5 - 10 feet	Tall Shrub	
	Red Maple	30	Sapling/Pole	4				-	1		•
	Quaking Aspen	3	Pole/Log	8							
	Bigtooth Aspen	50	Sapling/Pole	4	30						
	Red Oak	3	Log/Pole	12							
29	4139 - Aspen,	Mixed Dec	iduous P	oletimb	er We	II 17.7	38	81-110	N/A		McDonald '11: Stand Year Origin was 1983JSP '21: Harvest in early
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	80's left RO, also appears to of left some HM and a handful of RP/WP. So there is a scattered 2nd age class, most of which if RO. Stems that
	Quaking Aspen	40	Pole/Sapling	7	38	li .	ronwood	High	>20 feet	Sapling	have regenerated from harvest can vary in DBH, most currently running a
	Bigtooth Aspen	15	Pole/Log/Sap	8		R	ed Maple	Low	>20 feet	Sapling	bit small. A few pockets/clones of larger aspen (mainly BTA) can be
	Red Maple	6	Pole/Log	9		Su	gar Maple	High	>20 feet	Sapling	found in areas. Some oak regen is present, tended to occur close to the RP plantation. Fairly consistent sub-can of IW/HM. West end begins
	Red Oak	10	Log/XLog/Pole	17	81	Pa	per Birch	Low	>20 feet	Sapling	'mingling' w/conifer from adjacent stands. Originally part of one larger
	Sugar Maple	16	Pole/Sap/Log	6		Ва	alsam Fir	Low	Variable	Sapling	stand (now stands 8,10,11 and this stand), all of which have the same Rx
	Paper Birch	3	Pole	6		W	hite Pine	Low	Variable	Sapling	history. Trace AmElm (log). BA swings= 100,110,120,50,70 (90avg)
	White Pine	3	Pole/Log	9				,			•
	Balsam Fir	3	Pole/Sapling	6							
	Red Pine	2	Log/Pole	14							
	Beech	2	Pole/Sapling	5							
30	42210 - Nat			wtimbei		um 7.4	102	51-80	N/A		McDonald '11: Stand was selectively cut in 2004.JSP '21: Majority of this stand had a selection in '04, except for some portions located in the
	Canopy Species	% Cover	Size Class		Age		anopy Species	Density	Avg. Height	Size	E/SE ~2ac of the stand. This small, generally unharvested, inclusion
	Red Pine	70	Log/Pole/XLog	<u> </u>	102		hite Pine	High	10 - 20 feet	Sapling	carries a similar BA range and has a very desirable component of
	White Pine	15	XLog/Log/Pole			F	Red Pine	Medium	>20 feet	Sapling	advanced WP and some RP regen. It also holds the lower % canopy species listed above. The remaining western portion of the stand, that
	Jack Pine	3	Pole/Log	9		Ba	alsam Fir	Low	10 - 20 feet	Sapling	was thinned, held RP that was generally med/large log, with xlog RP
	Red Oak	3	Log/XLog/Pole				ck Spruce	Trace	>20 feet	Sapling	common. WP variable from pole to legacy (28"), xlog generally most
	Hemlock	1	Pole/Log	9		R	ed Maple	Low	>20 feet	Sapling	common. Advanced WP regeneration is prolific in the '04 thinned area, is moving the this stand towards having two distinct age classes (if not
	Red Maple	2	Pole/Sapling	6		F	Red Oak	Low	>20 feet	Sapling	already). BA swings= 40,90,60,50 (60avg)
	Paper Birch	2	Pole/Log	8							
	Bigtooth Aspen	2	Pole/Log	8							

Quaking Aspen

2

8

Pole/Log



Stand	Level 4 C	over Type	s	ize De	nsity	Acres	Stand Age B	A Range	e Managed Site		General Comments				
31	1 42290 - Natural Mixed Pine P		Pine Po	oletimb	er Wel	12.7	69	51-80	N/A		Size dominance (pole vs log) can vary upon location. Areas w/more RP				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	tended to be log dominant, then areas prone to pole sizes w/logs mingling around. Overall can-closure on low-end of 75-100%. Begins				
	Jack Pine	34	Pole/Log	8	69		ite Pine	Medium	10 - 20 feet	Sapling	open-up/lower stocking in eastern areas. Some JP is standing dead,				
	White Pine	20	Pole/Log	8		Jac	ck Pine	Low	>20 feet	Sapling	about to senesce or is CWD on the ground. Other JP stems are fairly				
	Red Pine	28	Log/Pole/XLog	15		Re	d Pine	Medium	10 - 20 feet	Sapling	healthy. RO and some of the RP is likely an older age class. Some younger pole RO is present. More/most aspen is located in eastern				
	Red Oak	6	Log/Pole/XLog	14		Е	Beech	Low	5 - 10 feet	Sapling	areas. Trace Hemlock (log). BA swings= 40,90,30,90,60,90,80 (68avg)				
	Bigtooth Aspen	5	Pole/Log	9		Common Lo	wbush Bluebe	rry Low	< 5 feet	Tall Shrub	, , ,				
	Quaking Aspen	3	Pole/Log	9		Brac	ken Fern	High	Unspecified	Non-Wood					
	Red Maple	4	Pole	7				'			•				
32	42110 - Pla	nted Red F	Pine Sa	awtimb	er Wel	0.9	55	171-200	N/A		3rd row thinned in '06. Narrow stand, really only 4-rows remaining (each				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	w/2-rows of RP). RP a mix of logs/poles (some suppressed saps sill present/alive). Decent/ok/good quality RP for the site. Very				
	Red Pine	97	Log/Pole/Sap	10	55	Wh	ite Pine	Low	5 - 10 feet	Sapling	minimal/almost no sub-canopy sapling layer to fight with. BA swings=				
	Red Oak	2	XLog/Log/Pole	18		Е	Beech	Low	5 - 10 feet	Sapling	230,240,140 (203avg)				
	White Pine	1	XLog/Log	20		Re	ed Oak	Trace	5 - 10 feet	Sapling					
						Blac	k Cherry	Trace	5 - 10 feet	Sapling					
						Е	Beech	Low	< 5 feet	Seeding					
						Servicebe	rry (Juneberry)	Low	5 - 10 feet	Tall Shrub					
						Bal	sam Fir	Low	< 5 feet	Seeding					
						Wh	ite Pine	Low	< 5 feet	Seeding					
33	42110 - Pla	nted Red F	Pine Sa	awtimb	er Wel	9.1	55	141-170	N/A		3rd row thinned in '06. Similar to stand 32, ok/good form/quality RP.				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Small pocket of mortality in the hook-shaped area in SW. Small colony of invasive honeysuckle in east near PVT. Variety of DBH's, pole to medium				
	Red Pine	96	Log/Pole	10	55	Honeys	uckle (spp.)	Low	5 - 10 feet	Tall Shrub	log sized RP. A few scattered, generally xlog/legacy RO present (one				
	Red Oak	3	XLog/Log	21		Strip	ed Maple	Trace	10 - 20 feet	Sapling	was 32"). Most RO is located along/near boundary. Pockets where saps				
	Quaking Aspen	1	Log/Pole	11		Ame	rican Elm	Trace	>20 feet	Sapling	are more dense, usually where there's less canopy RP present. Deciduous not 10ft or greater have been browsed to seedling size/height				
						Re	ed Oak	Low	10 - 20 feet	Sapling	BA swings= 170,160,250,80,180,130,210 (168avg)				
						Wh	ite Pine	Low	10 - 20 feet	Sapling					
						Е	Beech	Low	10 - 20 feet	Sapling					
						Bal	sam Fir	Medium	Variable	Sapling					
						Blac	k Cherry	Low	5 - 10 feet	Sapling					
						Red	d Maple	Low	10 - 20 feet	Sapling					
						Sug	ar Maple	Medium	10 - 20 feet	Sapling					
						Iro	nwood	Medium	10 - 20 feet	Sapling					
						Re	ed Oak	Low	< 5 feet	Seeding					
						Е	Beech	Medium	< 5 feet	Seeding					
						Wh	ite Pine	Low	< 5 feet	Seeding					



Stand	Level 4 Co	over Type	Si	Size Density Acres Stand Age		Stand Age B	ge BA Range Managed Site		ite	General Comments	
34	42110 - Plar	nted Red F	Pine Sa	wtimb	er Well	0.4	55	201+	N/A		Small pocket of planted RP, has not been previously thinned. Though
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	small acreage, RP is ok/good/higher quality. Worth crown thinning along with adjacent RP stands. Could final harvest in future when surrounding
	Red Pine	90	Log/Pole	12	55	Suga	ar Maple	Medium	10 - 20 feet	Sapling	Stand 29 is treated. Quaking aspen has grown up with the red pine. BA
(Quaking Aspen	10	Log/Pole	11		Iro	nwood	Low	10 - 20 feet	Sapling	swings= 330,220 (275avg)
						В	Beech	Medium	Variable	Sapling	
35	4111 - S.Maple, Ha	ard Mast A	association Sa	wtimb	er Well	50.7	84	81-110	N/A		Stand of decent/better quality NHWD mixed w/RO. RO is quite consistent
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	throughout, generally large log to xlog then some poles (heavy wildlife usage below nearly all RO). HM mainly pole sized w/consistent stocking
	Sugar Maple	58	Pole/Sap/Log	8	84	Suga	ar Maple	High	>20 feet	Sapling	of saps (20ft+), then log sizes present but not overly abundant. Minor
	Basswood	15	Log/Pole/XLog	12		Iro	nwood	Medium	10 - 20 feet	Sapling	areas in SE&South boundary with open-grown/poorer quality stems. BE
	Red Oak	18	Log/XLog/Pole	17		Iro	nwood	Low	>20 feet	Pole	component primarily resides in this area too. Overall enough logs present to call M9 yet heavy pole presence with M6 dominant areas. Trace XL/L
	Paper Birch	3	Pole/Log	8		В	Beech	Medium	10 - 20 feet	Sapling	RP in east&SW, and L/P JP in east too. BA swings=
	Beech	4	Pole/Log/XLog	9		Bal	sam Fir	Low	5 - 10 feet	Sapling	120,100,80,80,100,150,120,110 (107-avg).
F	Bigtooth Aspen	2	Log	15		Wh	ite Pine	Trace	Variable	Sapling	
	3 1			wtimh	ar Wall	17 7	84	81-110	N/A		Mixed red oak stand. Southern 1/2-1/3rd is primarily RO mixed w/RM
36	4199 - Other Mixed	d Upland [DBH	er Well	17.7 Sub-Car	84 nopy Species	81-110 Density	N/A Avg. Height	Size	Mixed red oak stand. Southern 1/2-1/3rd is primarily RO mixed w/RM. Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles'
36	4199 - Other Mixed Canopy Species Red Oak	d Upland [% Cover	Deciduous Sa r Size Class Log/Pole/XLog	DBH		Sub-Car Wh	nopy Species nite Pine	Density Medium	Avg. Height 10 - 20 feet	Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest
36	4199 - Other Mixed Canopy Species Red Oak Red Maple	d Upland E % Cover 54 20	Deciduous Sa r Size Class Log/Pole/XLog Pole/Log	14 8	Age	Sub-Car Wh	nopy Species nite Pine Beech	Density Medium Medium	Avg. Height 10 - 20 feet 10 - 20 feet	Sapling Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems
36	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine	% Cover 54 20 3	Deciduous Sa r Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole	14 8 16	Age	Sub-Car Wh B	nopy Species nite Pine Beech nowood	Density Medium Medium Medium	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet	Sapling Sapling Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140.70.100.80 (97avg).
36	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine	d Upland E % Cover 54 20 3 3	Deciduous Sa r Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log	DBH 14 8 16 22	Age	Sub-Car Wh E Iro Suga	nopy Species aite Pine Beech anwood ar Maple	Density Medium Medium Medium Medium	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet	Sapling Sapling Sapling Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg).
36	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine Bigtooth Aspen	d Upland E **Cover 54 20 3 3 10	Deciduous Sa r Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log Log	DBH 14 8 16 22 14	Age	Sub-Car Wh E Iro Suga Rec	nopy Species aite Pine Beech onwood ar Maple d Maple	Density Medium Medium Medium Medium Medium Medium	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet >20 feet >20 feet	Sapling Sapling Sapling Sapling Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg).
36	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine Bigtooth Aspen Sugar Maple	d Upland I % Cover 54 20 3 3 10 8	Deciduous Sa r Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log Log Pole/Log	DBH 14 8 16 22 14 8	Age	Sub-Car Wh E Iro Suga Rec	nopy Species aite Pine Beech anwood ar Maple d Maple ed Oak	Density Medium Medium Medium Medium Medium Medium Medium	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet >20 feet >20 feet >20 feet	Sapling Sapling Sapling Sapling Sapling Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg).
36	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine Bigtooth Aspen	d Upland E **Cover 54 20 3 3 10	Deciduous Sa r Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log Log	DBH 14 8 16 22 14	Age	Sub-Car Wh E Iro Suga Rec Re	nopy Species aite Pine Beech anwood ar Maple d Maple ed Oak sam Fir	Density Medium Medium Medium Medium Medium Medium Medium Low	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet >20 feet >20 feet >20 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg).
36	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine Bigtooth Aspen Sugar Maple	d Upland I % Cover 54 20 3 3 10 8	Deciduous Sa r Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log Log Pole/Log	DBH 14 8 16 22 14 8	Age	Sub-Car Wh E Iro Suga Rec Re	nopy Species aite Pine Beech anwood ar Maple d Maple ed Oak	Density Medium Medium Medium Medium Medium Medium Medium	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet >20 feet >20 feet >20 feet	Sapling Sapling Sapling Sapling Sapling Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg).
36	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine Bigtooth Aspen Sugar Maple	d Upland [% Cover 54 20 3 3 10 8 2 2]	Deciduous Sa r Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log Log Pole/Log Pole/Log	DBH 14 8 16 22 14 8 8	Age 84 Mediur	Sub-Car Wh E Iro Suga Rec Re Bal	nopy Species aite Pine Beech anwood ar Maple d Maple ed Oak sam Fir	Density Medium Medium Medium Medium Medium Medium Medium Low	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet >20 feet >20 feet >20 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg).
36 E	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine Bigtooth Aspen Sugar Maple Paper Birch	d Upland [% Cover 54 20 3 3 10 8 2 2]	Deciduous Sar Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log Log Pole/Log Pole/Log Pole/Log	DBH 14 8 16 22 14 8 8	Age 84	Sub-Car Wh E Iro Suga Rec Re Bal Strip	nopy Species aite Pine Beech anwood ar Maple d Maple ed Oak lsam Fir ed Maple	Density Medium Medium Medium Medium Medium Medium Medium Medium Medium Low Medium	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet >20 feet >20 feet >20 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg). '11: OI Stand Year Origin was 1940 '21: Natural pine mixed w/deciduous, mainly RO/some aspen. Variable
36 E	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine Bigtooth Aspen Sugar Maple Paper Birch	d Upland [% Cover 54 20 3 3 10 8 2 2]	Deciduous Sa r Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log Log Pole/Log Pole/Log	DBH 14 8 16 22 14 8 8	Age 84 Mediur	Sub-Car Wh E Iro Suga Rec Re Bal Strip n 18.2 Sub-Car	nopy Species hite Pine Beech honwood ar Maple d Maple ed Oak Isam Fir ed Maple	Density Medium Medium Medium Medium Medium Medium Medium Medium Low Medium	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet >20 feet >20 feet >20 feet >10 feet >20 feet >20 feet N/A	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg). '11: OI Stand Year Origin was 1940 '21: Natural pine mixed w/deciduous, mainly RO/some aspen. Variable canopy closure and DBH's depending upon location. Areas of stand appear to of had a past shelterwood and/or leave pine/oak type harvest.
36 E	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine Bigtooth Aspen Sugar Maple Paper Birch 4310 - Pir Canopy Species	d Upland E % Cover 54 20 3 3 10 8 2	Deciduous Sar Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log Log Pole/Log Pole/Log Pole/Log Size Class	DBH 14 8 16 22 14 8 8 8	Age 84 Mediur	Sub-Car Wh E Iro Suga Rec Re Bal Strip 18.2 Sub-Car Blac	nopy Species aite Pine Beech onwood ar Maple d Maple ed Oak lsam Fir ed Maple 81 nopy Species	Density Medium Medium Medium Medium Medium Medium Medium Low Medium 51-80 Density	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet >20 feet >20 feet >20 feet 5 - 10 feet N/A Avg. Height	Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg). '11: OI Stand Year Origin was 1940 '21: Natural pine mixed w/deciduous, mainly RO/some aspen. Variable canopy closure and DBH's depending upon location. Areas of stand appear to of had a past shelterwood and/or leave pine/oak type harvest. Those locations have lower BA (~40-90) of pine/oak, generally as log
36 E	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine Bigtooth Aspen Sugar Maple Paper Birch 4310 - Pir Canopy Species White Pine	d Upland E % Cover 54 20 3 3 10 8 2	Deciduous Sar Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log Log Pole/Log Pole/Log Six Saw T Size Class Log/Pole/XLog	DBH 14 8 16 22 14 8 8 8	Age 84 Mediur Age	Sub-Car Wh E Iro Sugg Rec Bal Strip 18.2 Sub-Car Blac Bal	nopy Species aite Pine Beech anwood ar Maple d Maple ed Oak Isam Fir ed Maple 81 nopy Species k Spruce	Density Medium Medium Medium Medium Medium Medium Medium Low Medium 51-80 Density Low	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet >20 feet >20 feet >20 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height Variable	Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg). '11: OI Stand Year Origin was 1940 '21: Natural pine mixed w/deciduous, mainly RO/some aspen. Variable canopy closure and DBH's depending upon location. Areas of stand appear to of had a past shelterwood and/or leave pine/oak type harvest. Those locations have lower BA (~40-90) of pine/oak, generally as log sizes. South and an eastern area of R6 mixed w/RO/aspen plus scat log
36 E	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine Bigtooth Aspen Sugar Maple Paper Birch 4310 - Pir Canopy Species White Pine Red Pine	d Upland I % Cover 54 20 3 10 8 2 ne, Oak Mi % Cover 10 46	Deciduous Sar Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log Log Pole/Log Pole/Log Pole/Log Six Saw Size Class Log/Pole/XLog Log/Pole/XLog	DBH 14 8 16 22 14 8 8 ttimber 12 11	Age 84 Mediur Age	Sub-Car Wh B Iro Suga Rec Re Bal Stripp 18.2 Sub-Car Blac Bal Wh	nopy Species dite Pine Beech nwood ar Maple d Maple ed Oak sam Fir ed Maple 81 nopy Species k Spruce	Density Medium Medium Medium Medium Medium Medium Medium Low Medium 51-80 Density Low Medium	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet >20 feet >20 feet >20 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height Variable	Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg). '11: OI Stand Year Origin was 1940 '21: Natural pine mixed w/deciduous, mainly RO/some aspen. Variable canopy closure and DBH's depending upon location. Areas of stand appear to of had a past shelterwood and/or leave pine/oak type harvest. Those locations have lower BA (~40-90) of pine/oak, generally as log sizes. South and an eastern area of R6 mixed w/RO/aspen plus scat log sized pine. Calling logs the 'overall size', their lower stocking in the canopy tended to average 50-75% closure. Some locations (the R6-ish
36 E	4199 - Other Mixed Canopy Species Red Oak Red Maple Red Pine White Pine Bigtooth Aspen Sugar Maple Paper Birch 4310 - Pir Canopy Species White Pine Red Pine Red Pine Red Oak	d Upland E % Cover 54 20 3 3 10 8 2 me, Oak Mi % Cover 10 46 25	Deciduous Sa r Size Class Log/Pole/XLog Pole/Log Log/XLog/Pole XLog/Log Pole/Log Pole/Log ix Saw r Size Class Log/Pole/XLog Log/Pole/XLog Log/Pole/XLog Log/Pole/XLog	DBH 14 8 16 22 14 8 8 8 timber 12 11 12	Age 84 Mediur Age	Sub-Car Wh B Iro Suga Rec Re Bal Strip 18.2 Sub-Car Blac Bal Wh Rec	nopy Species lite Pine Beech lonwood lar Maple led Oak lsam Fir led Maple 81 lonopy Species lk Spruce lsam Fir lite Pine	Density Medium Medium Medium Medium Medium Medium Medium Low Medium 51-80 Density Low Medium High	Avg. Height 10 - 20 feet 10 - 20 feet 10 - 20 feet >20 feet >20 feet >20 feet >10 feet >20 feet >20 feet >20 feet >20 feet >20 feet 5 - 10 feet N/A Avg. Height Variable Variable 10 - 20 feet	Sapling Size Sapling Sapling Sapling	Northern 1/3rd starts mingling w/NHWD species from Stand 35 as well as an increase in aspen component. The RP/WP component 'sprinkles' in/out along the western boundary. Red oak wasn't always the 'cleanest form', overall it was decent/ok to with some better quality stems here/there. Trace clump of P/L hemlock in northwest, BW in northeast too. BA swings= 140,70,100,80 (97avg). '11: OI Stand Year Origin was 1940 '21: Natural pine mixed w/deciduous, mainly RO/some aspen. Variable canopy closure and DBH's depending upon location. Areas of stand appear to of had a past shelterwood and/or leave pine/oak type harvest. Those locations have lower BA (~40-90) of pine/oak, generally as log sizes. South and an eastern area of R6 mixed w/RO/aspen plus scat log sized pine. Calling logs the 'overall size', their lower stocking in the canopy tended to average 50-75% closure. Some locations (the R6-ish



Stand	Level 4 Co	over Type	s	ize De	nsity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments
38	42290 - Natu	ıral Mixed F	Pine Saw	rtimber	Medium	20.2	90	51-80	N/A		'11: Stand had all but pine removed in 1984. Selection cut in 2004.'21:
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Variable to lower stocked canopy of mostly XL/L (some Legacy) WP/RP growing on a narrow piece of transitional ground (north and south ends
	Red Pine	36	XLog/Log/Pole	18		Re	ed Maple	Medium	10 - 20 feet	Sapling	widens out a bit). Scattering of other conifer/deciduous, a bit more variety
	White Pine	40	XLog/Log/Pole	22	90	Bla	ck Spruce	Medium	Variable	Sapling	in north and south when the stand widens out and begins mingling
No	rthern White Cedar	4	Pole/Log	8		W	hite Pine	Medium	10 - 20 feet	Sapling	w/adjacent stands. Increased RO/higher can-closure in north. Small pockets of NWC present along western boundary, old railroad grade on
	Balsam Fir	4	Pole/Sapling	6		Ва	alsam Fir	Medium	Variable	Sapling	west too. Signs of past management pretty obvious in areas (stmp-sprt
	Paper Birch	3	Pole	7		R	ed Pine	Low	10 - 20 feet	Sapling	RM, pine stumps from selection). Desirable sub-canopy of advanced
	Bigtooth Aspen	4	Log	12		R	led Oak	Low	10 - 20 feet	Sapling	conifer (some decid) regen. BA swings= 80,70,50,80,90 (74avg).
	Red Maple	3	Pole/Sapling	6	37	Lab	rador Tea	Medium	< 5 feet	Tall Shrub	
	Red Oak	3	Log/Pole	14							•
	Black Spruce	3	Pole/Sapling	6							
39	42220 - Nat				Medium			81-110	N/A	C:	Moderate quality jack pine. Best stocking is in the east half of the stand, the rest of the stand has more sporadic stocking. Aspen is mostly in the
	Canopy Species		Size Class	_	Age		nopy Species	Density	Avg. Height	Size	middle of the stand. Average ba/acre from 3 plots = 93 square feet.
	Red Maple	1	Pole	5			alsam Fir	Trace	Variable	Sapling	Terrain slopes gradually down to the east. Might be ready for a harvest next entry.
	Balsam Fir	1	Pole Pole	5			ed Maple	Trace	Variable	Sapling	nox only.
	Bigtooth Aspen	25	Pole/Sapling	6	00		hite Pine	Trace	Variable	Sapling	
	Jack Pine	73	Pole/Sapling	5	36	ыа	ck Cherry	Trace	Variable	Tall Shrub	
40	4311 - Pine	e, Aspen M	lix Po	letimb	er Well	8.6	35	111-140	N/A		Red pine was row planted, but aspen sprouted back well and is overtopping the red pine in some areas. Close to a 50/50 mix between
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the aspen and red pine. Average ba/acre from 6 plots = 120 square feet.
	Bigtooth Aspen	48	Pole/Sapling	5	35	Re	ed Maple	Low	Variable	Sapling	
	Red Pine	44	Pole/Sapling	5	35	Bla	ck Cherry	Low	Variable	Tall Shrub	
	White Pine	1	Pole	6							
	Jack Pine	3	Pole/Sapling	5							
	Red Maple	2	Pole/Sapling	5							
	Red Oak	2	Log	14							
41	42220 - Nat	ural Jack P	rine S	Sapling	ı Well	7.0	27 l	mmature	N/A		Moderate quality jack pine that is starting to approach merchantability. Not well-stocked in all areas and there are a few small non-forested
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	openings mixed in throughout. Aspen as well as the red pine is mostly at
	Red Pine	3	Log/Pole	10		Ja	ack Pine	Trace	5 - 10 feet	Sapling	the far western end of the stand. Lots of reindeer moss at the ground
	Bigtooth Aspen	15	Sapling/Pole	3		Re	ed Maple	Trace	Variable	Sapling	level.
	Jack Pine	82	Sapling/Pole	4	27	R	ed Pine	Trace	Variable	Sapling	
				-		W	hite Pine	Trace	Variable	Sapling	
						Die	ck Cherry	Trace	Variable	Tall Shrub	



Stand	Level 4 C	over Type	Si	ze De	ensity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
42	4311 - Pin	ne, Aspen M	1lix S	apling	g Well	12.2	27	1-50	N/A		Could get away w/calling a pole stand. Western areas heavier to
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	patchy/clumpy stocking of BTA mixing w/JP saps and residual RO. Many of the aspen stems were 4.5-4.9", some larger if growing w/less
	Bigtooth Aspen	40	Sapling/Pole	4	27	WI	nite Pine	Medium	10 - 20 feet	Sapling	competition. East 1/2 travels gradually downslope towards Stand 409
	Red Pine	1	Log/Pole	12		R	ed Pine	Low	5 - 10 feet	Sapling	(L0). Stem density increases, so does JP (and some other conifer). The
	Jack Pine	40	Sapling/Pole	4		Blad	ck Cherry	Low	5 - 10 feet	Sapling	east 1/2 is still pretty much sapling dominant. Scattered residual RO, a few WP.RP.JP and then a handful of BTA logs. MiFI wouldn't allow
	Red Maple	5	Sapling/Pole	4		Ва	lsam Fir	Low	10 - 20 feet	Sapling	calling JP sap/pole/log. BF saps medium density along Stand 409. Stan
	Red Oak	5	Log/Pole	14	84			,			appeared to be heavily traveled by wildlife. 3" aluminum disk corner four
	White Pine	5	Sapling/Pole/Log	4							in stand, one witness tree too (a WP). BA swings= 50,70,20,10 (37avg).
	Balsam Fir	4	Sapling/Pole	4							
43	42110 - Pla	inted Red F	Pine Sa	wtimb	er Well	12.4	62	81-110	N/A		McDonald '15: Stand Year Origin was 1959. Stand thinned in 2015.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	JSP '21: 3rd row thinned in '15, appears all deciduous (except oak) was removed too. Remaining rows generally low/lower stocked, can-closure
	Red Pine	95	Log/Pole	11	62	Bigto	oth Aspen	Low	5 - 10 feet	Sapling	low-end of 75-100%. Decent quality, but will take a long time before star
	Red Oak	3	XLog/Log/Pole	20		WI	nite Pine	Low	10 - 20 feet	Sapling	reaches a BA high enough to warrant a 2nd entry crown thin down to
	Bigtooth Aspen	1	Pole/Log	9		R	ed Pine	Low	5 - 10 feet	Sapling	120BA. Minimal deciduous in sub-canopy, most regen following deciduous removal has been browsed to 5ft or less. Scattered large RO
	Red Maple	1	Pole/Sapling	7		Re	ed Maple	Low	< 5 feet	Sapling	trace white oak saps observed in extreme west, in a small opening. BA
				-		WI	hite Oak	Trace	10 - 20 feet	Sapling	swings= 80,70,70,120,110,130,130 (101avg)
						R	ed Oak	Low	10 - 20 feet	Sapling	
						Blad	ck Cherry	Medium	5 - 10 feet	Sapling	
44	4133 - Aspe				g Well	11.7	27	1-50	N/A		McDonald '11: Stand Year Origin was 1994.JSP '21: Clumpy, scattered pockets of aspen/RM regen mixed w/pine regen. Canopy-closure on the
	Canopy Species		Size Class	_	l Age		nopy Species	Density	Avg. Height	Size	low-end of 75-100%. Regen is generally less dense when growing near
	Bigtooth Aspen	41	Sapling/Pole	3	27		ed Pine	Medium	5 - 10 feet	Sapling	residual oak, more dense if growing away from residual. Guessing
	Red Maple	20	Sapling	2			nite Pine	Medium	5 - 10 feet	Sapling	browse underneath/near oak mast encouraged the 'consumption' of those regen stems not long after harvest. Suppressed med/low density layer of
	Red Oak	8	Log/Pole/Sap	15	84		ick Pine	Medium	5 - 10 feet	Sapling	5-10ft WP, RP, JP saps growing underneath and outside of the taller
	White Pine	10	Sapling/Pole	3		Blad	ck Cherry	Low	10 - 20 feet	Sapling	regen stems. Also, the same species at more/less the same height as
	Jack Pine	10	Sapling/Pole	3							the aspen/RM regen stems. Regenerating RO saps present, and some residual RO stems are xlog. A few scattered WP,RP,JP residuals, most
	White Oak	3	Sapling	4							near eastern boundary. Small clump of unharvested aspen east of fores
	Red Pine	8	Sapling/Pole/Log	4							rd, against Stand 43.
45	42220 - Nat				g Well	16.1	27 I	mmature	N/A		Dense stand of young jack pine except for some scattered areas of blowdown. No furrows present but the jack pine almost appears planted
	Canopy Species	% Cover	Size Class	_	l Age						in some spots? A few black cherry can be found at the south end of the
	Black Cherry	2	Sapling/Pole	4							stand in areas that look like old chip piles. A few white pine, black spruc
	Balsam Fir	1	Pole/Sapling	5							and white oak saplings are scattered throughout, although they are rare
	Red Pine	2	Log/Pole	12							
	Quaking Aspen	2	Sapling	3							
	Bigtooth Aspen	5	Sapling	3							
	Jack Pine	88	Sapling/Pole	3	27						



Stand	Level 4 Cover Type Size D		Size Density		<u> </u>		A Range	Managed S	ite	General Comments	
46	42110 - Pla	inted Red F	Pine S	awtimb	er Well	4.5	60	81-110	N/A		McDonald '11: Stand was 3rd row thinned in 2004.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	JSP '21: Variably stocked in areas, but overall lower stocked with RP. RP isn't the worst, is a bit short/somewhat limby, defect/doubles not
	Red Pine	98	Log/Pole	11	60	Re	ed Oak	Low	10 - 20 feet	Sapling	uncommon. A few canopy red oak along perimeter (30" legacy in far
	Red Oak	2	XLog/Log/Pole	18		Wh	nite Oak	Trace	5 - 10 feet	Sapling	east), as well as other deciduous mixing in from adjacent stands. Small
				•		Ja	ck Pine	Trace	10 - 20 feet	Sapling	sap pocket in west, must of been a clump of deciduous that was removed. Now holds some oak, RM, BTA JP and RP regen. Mentioned
						Bigto	oth Aspen	Trace	>20 feet	Sapling	this in Stand 63 comments, P/S planted RP overtopped by BTA is
						Re	d Maple	Trace	10 - 20 feet	Sapling	present north of this stand, west of the forest rd. Will be final harvested
						Re	ed Pine	Trace	10 - 20 feet	Sapling	with Stand 63. Almost no competition to deal w/in the sub-canopy. BA swings= 60,150,130,100,70 (102avg)
47	4123 -	Red Oak	Sa	awtimb	er Poor	7.0	85	1-50	N/A		McDonald '11: Oak residual. Too early to get a handle on reproductive
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	success. JSP '21: Harvested in '04, stand coded as a J3 last YOE. Yikes, except
	Red Oak	92	Log/Pole/XLog	14	85	Re	d Maple	Low	10 - 20 feet	Sapling	for a few scattered BTA clones (clones very small in size) and scattered
	Red Pine	5	Pole/Sap/Log	6		Ja	ck Pine	Low	Variable	Sapling	RM regen off-the-stump, this stand has failed to regenerate/regen was
	White Oak	3	Log/XLog	16		Re	ed Pine	Low	10 - 20 feet	Sapling	eaten. Appears all remaining sub-canopy species were present/protected/not run-over during '04 harvest. Could maybe call RM
						Wh	nite Pine	Low	10 - 20 feet	Sapling	saps ~'medium' density. North-end of stand used as a landing when
						Bigto	oth Aspen	Low	10 - 20 feet	Sapling	Stand 49 was recently cut. Residual BA varies upon location. BA swings=
						Re	ed Oak	Medium	10 - 20 feet	Sapling	30,60,80 (56avg)
						Blac	k Spruce	Trace	5 - 10 feet	Sapling	
						Wh	nite Oak	Trace	5 - 10 feet	Sapling	
						Е	Beech	Trace	>20 feet	Sapling	
						Re	ed Pine	Trace	< 5 feet	Seeding	
48	42110 - Pla	inted Red F	Pine Po	oletimb		1.9	60	81-110	N/A		McDonald '11/'15: Stand Year Origin was 1961. Stand was thinned in 2015.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	JSP '21: 3rd row-thinned in '15. Could call a log sized stand, a lot of
	Red Pine	95	Pole/Log	9	60	Re	d Maple	Trace	< 5 feet	Seeding	stems hanging out at 9"-11" DBH. Decent/ok quality RP, will take awhile
	Red Oak	5	XLog	26		Re	ed Oak	Trace	10 - 20 feet	Sapling	for BA to build up to a density high enough to warrant a traditional crownthin down to 120BA. 2-3 red oak present along boundary, the ones I
											observed were legacy size (26",30"). Deciduous likely removed in '15
											(except oak), the minimal RM regen present is browsed to seedling height. BA swings= 130,100,100,100 (107avg)
49	4123 -	Red Oak	Sa	awtimb	er Poor	35.1	87	1-50	N/A		Stand was cut in 2019. Some oak was cut but the majority was left and it
-	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	is nice quality oak for the most part. Average ba/acre of the residual from
	Red Oak	100	Log/XLog	14	87		oth Aspen	Low	5 - 10 feet	Sapling	7 plots = 30 square feet. Regeneration at this point consists mostly of red maple stump sprouts and bigtooth aspen clones. A small amount of birch
			- 3	1			d Maple	Medium	< 5 feet	Seeding	and red oak stump sprouts are present but they are being heavily
							oth Aspen	Medium	< 5 feet	Seeding	browsed and will likely not survive. The red maple and aspen are also
							ed Oak	Trace	< 5 feet	Seeding	being browsed but not too severely at this point. Regen survey results with average height in parentheses: bigtooth aspen 1071 TPA (3 ft), red
										J 3	maple 457 TPA (2 ft), red oak 86 TPA (1 ft). Almost all of this stand sits on an elevated knob that is higher in elevation than the surrounding stands.



tand	Level 4 Co	over Type	Si	ize De	ensity	Acres S	Stand Age B	A Range	Managed S	Site	General Comments
0	4130	- Aspen	Ро	letimb	er Well	28.4	44	81-110	N/A		Moderate quality aspen stand that sits on a west-facing slope. Diamet
C	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cano	py Species	Density	Avg. Height	Size	are small for the stands age, possibly due to lower site quality on a western aspect? The red oak is decent quality and there is a small
	Red Pine	1	Log	12		Red	Maple	Low	>20 feet	Sapling	amount of younger oak in the poletimber and sapling size classes that
	Jack Pine	4	Pole/Log	8		Red	l Oak	Trace	>20 feet	Sapling	regenerated when the aspen was originally cut. The jack pine compon
	Red Oak	10	Log/XLog/Pole	14		White	e Pine	Trace	Variable	Sapling	tends to be in clumps, although a lot of it has died. A small inclusion of red pine is present at the far northeast corner of the stand. Trace of w
	Red Maple	3	Pole	5		Balsa	am Fir	Trace	Variable	Sapling	pine poletimber. Average ba/acre from 9 plots = 103 square feet. This
В	igtooth Aspen	82	Pole/Sapling	7	44						stand needs 10 more years of growth before a harvest is prescribed.
51	42220 - Nat	ural Jack F	Pine Pole	timbe	r Medium	30.3	46	51-80	N/A		Long linear stand of jack pine that borders lowland to the west and
C	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cano	py Species	Density	Avg. Height	Size	upland slopes to the east. Portions of the stand are on a slight western aspect. Sporadic stocking throughout the stand with many areas that
	White Pine	1	Pole	6		Balsa	am Fir	Trace	Variable	Sapling	poorly-stocked. A few of these open areas are slowly filling in with jack
	Red Oak	1	Log	14		Black	Spruce	Low	Variable	Sapling	pine. Jack pine quality is good in areas of better stocking. The spruce
Q	uaking Aspen	1	Pole	6		Jack	Pine	Low	Variable	Sapling	component is mostly along the western edge. Dry, nutrient poor site a evidenced by reindeer moss, which is abundant throughout the stand.
E	Black Spruce	6	Pole	7		White	e Pine	Trace	Variable	Sapling	Average ba/acre from 12 plots = 62 square feet.
	Red Pine	1	Log/Pole	11		Black	Cherry	Trace	Variable	Tall Shrub	
	Balsam Fir	2	Pole	5					1	'	
В	sigtooth Aspen	2	Pole	7							
	Jack Pine	86	Pole/Log	8	46						
52		iduous **Cover	,		er Well	376.9	125 U	nspecified Density	N/A	Size	Did not see all of this very large lowland complex. Areas I did observe were accessed from eastern boundary locations. Perimeter areas wer highly variable with regard to species mixing/dominance (fire & harves
	Canopy Species hern White Cedar	42	Pole/Log/Sap	8	125		am Fir	Medium	Avg. Height 5 - 10 feet	Sapling	origin RP/JP/WP/etc) as they transition from lowland to upland
	Black Spruce	18	Pole/Log	8	120		Spruce	Low	5 - 10 feet	Sapling	(generally). Though upland areas are present/limited, the locations I observed were quite wet with sensitive soils. Some small interior uplai
	White Spruce	5	Log/Pole	11			Alder	Low	5 - 10 feet	Tall Shrub	areas split out by McDonald are dotted across the complex. Old railro
	Balsam Fir	8	Pole/Sap/Log	7			Vhite Cedar	Low	>20 feet	Sapling	grade dissects the stand in the south (travels NE/SW)
Ω	Quaking Aspen	5	Log/XLog/Pole	14		1401111011114	Tillo Oodal	2011	7201000	Oupmig	
	Balsam Poplar	3	Log/Pole	12							
	White Pine	2	Log/XLog/Pole	16							
		5	Pole/Log	9							
	Red Maple	ŭ									
	Red Maple Paper Birch	5	Pole/Loa	9	1 1						
	Paper Birch Yellow Birch	5 2	Pole/Log Pole/Log	9							
	Paper Birch		Pole/Log Pole/Log Log/Pole								
	Paper Birch Yellow Birch Hemlock	2	Pole/Log Log/Pole	8 11	ocked	102.7	U	nspecified	No		Milligan Creek Floodplain. Observed in several locations along west boundary. Tag alder, 5-10ft+, common. Scattered then areas heavier stocked with conifer and deciduous, sapling to log sizes.



Stand	Level 4 C	over Type	s	ize De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
55	4311 - Pin	ne, Aspen M	lix Pole	etimbe	r Mediun	n 26.5	40	51-80	N/A		'11: OI Stand Year Origin was 1981
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	'21: Variable canopy-closure and species composition depending on location. Though somewhat obscured by snow, appeared that drainages
	Quaking Aspen	56	Pole/Sap/Log	7	40	Blac	k Cherry	Medium	10 - 20 feet	Sapling	(seasonal) move in/out of the stand in areas. Quaking aspen not
	Balsam Fir	15	Pole/Sap/Log	6		Bal	sam Fir	Medium	10 - 20 feet	Sapling	completely 'onsite' here. Some residual RO scattered about, included
	White Pine	8	Pole/Sap/Log	9		Red	d Maple	Medium	>20 feet	Sapling	those in the canopy list. Some of the WP/RP appeared to be residual from harvest too. Fir likes this ground, was growing well here.
	Jack Pine	10	Pole/Sapling	7		Wh	ite Pine	Medium	10 - 20 feet	Sapling	Thom harvest too. I if likes this ground, was growing well hore.
	Red Pine	5	Pole/Log	9		Jac	ck Pine	Low	10 - 20 feet	Sapling	
	White Spruce	4	Pole/Sapling	6		Re	d Pine	Low	10 - 20 feet	Sapling	
	Red Oak	2	Log/XLog	17		Whit	e Spruce	Low	10 - 20 feet	Sapling	
		'				Ta	g Alder	Low	5 - 10 feet	Tall Shrub	
56	6129 - Mixed Conif	ferous Lowla	and Forest Po	oletimb	er Well	30.7	88	111-140	N/A		'11: OI Stand Year Origin was 1933
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	'21: Transitional area of this stand, along the interface w/Std55, is generally log sized NWC, spruce and some RP/WP (some minor 'uplar
	Black Spruce	30	Pole/Log	8		Bal	sam Fir	Medium	Variable	Sapling	in these areas). Once into the wet/core area, diameters decrease into
	White Spruce	8	Log/Pole	12		Pap	er Birch	Low	>20 feet	Sapling	pole sizes and/or pockets of regenerating blowdown (where DBH's are
Nor	thern White Cedar	42	Pole/Log/Sap	8	88	Blac	k Spruce	Medium	>20 feet	Sapling	even small yet). The further north you go, the wetter and smaller the stand tended to get. 'Fans out' into lowland shrub in extreme north. BA
	Balsam Fir	5	Pole/Sap/Log	6		Labr	ador Tea	Medium	< 5 feet	Tall Shrub	
	Red Pine	4	XLog/Log	21		Bal	sam Fir	Medium	< 5 feet	Seeding	, , , , , , , , , , , , , , , , , , ,
	White Pine	4	XLog/Log	22		Blac	k Spruce	Low	< 5 feet	Seeding	
	Quaking Aspen	7	Log	10		Ta	g Alder	High	5 - 10 feet	Tall Shrub	
57	42290 - Nati	ural Mixed F	Pine S	Sapling	g Well	53.2	27	1-50	N/A		Appears to of been a 'leave all RP, WP, Oak and a few JP' harvest. Th
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	regenerating saplings are the featured layer. Very encouraging/general dense mix of pine regeneration in most areas, some spruce (5%)/RM(
	Red Pine	18	Log/XLog	13	82 C	common Lo	wbush Blueber	rry Medium	< 5 feet	Tall Shrub	
	Red Pine	24	Sapling	3	27	Wh	ite Pine	Medium	< 5 feet	Seeding	dominant, then areas mixed heavier to RP/WP with JP. Residual stems
	Jack Pine	28	Sapling/Pole	3	27	Jac	ck Pine	Medium	< 5 feet	Seeding	(mostly RP) quite dense in areas, primarily in the ~east 1/2. Not as mu regen where residual is heaviest. Observed two minor seasonally 'low'
	White Pine	3	Log/XLog	14	82	Re	ed Pine	Medium	< 5 feet	Seeding	areas. BA swings= 0, 20,40,110,70,30,40 (44avg).
	White Pine	12	Sapling	3		Labr	ador Tea	Low	< 5 feet	Tall Shrub	9
	Balsam Fir	5	Sapling/Pole	4				1	ı	1	_
	Red Oak	2	Log	13	82						
	Bigtooth Aspen	8	Sapling	4							
58	42220 - Nat	tural Jack P	rine Po	oletimb	er Well	15.6	46	51-80	N/A		'11: Stand was roller chopped in 1975.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	21: Previously classified as a J4, canopy has/is closing in, now borderl 50-75/75-100% can-closure depending on location. Low-end of 75-100%
	Jack Pine	60	Pole/Sap/Log	6	46	Red	d Maple	Low	>20 feet	Sapling	is a reasonable fit. JP mainly dominant w/components of RP, WP, asp
	Red Pine	12	Pole/Log	8		Jac	ck Pine	Medium	10 - 20 feet	Sapling	and some minor spruce/fir in areas. Some RP/WP is a 2nd (older) age
	Black Spruce	4	Pole/Sapling	5		Re	ed Pine	Low	10 - 20 feet	Sapling	class. Two-acre inclusion of MC8/9 (w/some QA) in east (previously Std59). Inclusion located on transitional ground, features canopy/sub-
	Balsam Fir	6	Sapling/Pole	4		Bal	sam Fir	Medium	Variable	Sapling	canopy spruce along w/the RP, JP, WP and Fir.
	0 1: 4	_	D 1 (0 1:			144			.,		1

Low

Low

Low

Medium

Variable

10 - 20 feet

10 - 20 feet

Unspecified Non-Wood

3

5

10

5

12

6

White Pine

White Spruce

Black Spruce

Bracken Fern

Pole/Sapling

Log/Pole

Pole/Sapling

Quaking Aspen

White Pine

Bigtooth Aspen

Sapling

Sapling

Sapling



										Total of Entry: 2020
Stanc	d Level 4 Co	over Type	S	ize De	nsity	Acres Stand Ac	je BA Range	Managed S	Site	General Comments
59	6122 - Bla	ack Spruce	e Po	letimb	er Well	15.4 90	111-140	N/A		Narrow stand of black spruce of relatively good quality although there are
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spe	cies Density	Avg. Height	Size	a lot of small diameter trees in areas. Trace of white pine and red maple in the overstory. Average ba/acre from 13 plots = 130 square feet. The
	Red Pine	1	Log	14		Balsam Fir	Trace	Variable	Sapling	east edge of the stand is on the upland transitional zone. The rest of the
	Tamarack	1	Log/Pole	10		Black Spruce	Trace	Variable	Sapling	stand is lowland but appears mostly operable. There are some wet areas
	Balsam Fir	5	Pole	5		Red Maple	Trace	Variable	Sapling	that should be excluded if a harvest is prescribed.
	Jack Pine	20	Pole/Log	8		Michigan Holly	Low	5 - 10 feet	Tall Shrub	
	Black Spruce	70	Pole/Sap/Log	7	90	Tag Alder	Trace	Variable	Tall Shrub	
No	orthern White Cedar	3	Pole	8		Nannyberry	Trace	5 - 10 feet	Tall Shrub	
60	6129 - Mixed Conife	erous Lowla	and Forest Po	letimb	er Well	30.9 108	111-140	N/A		Didn't get a chance to see all of this stand. Variable dominance in the areas I did travel. Spruce more dominant near perimeter. Interior portions
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spec	cies Density	Avg. Height	Size	heavier to NWC. Interior portions quite wet w/areas of tip-ups/blowdown
No	orthern White Cedar	40	Pole/Log/Sap	8	108	Balsam Fir	High	Variable	Sapling	and heavy sapling production. Scattered log/xlog/legacy WP present. BA
	Balsam Fir	5	Pole/Sapling	6		Northern White Ce	dar Medium	>20 feet	Sapling	swings= 170,100,130 (133avg).
	Black Spruce	33	Pole/Log	8		Black Spruce	Medium	10 - 20 feet	Sapling	
	Paper Birch	5	Pole/Log	8		Black Ash	Low	10 - 20 feet	Sapling	
	White Pine	4	Log/XLog/Pole	16		Tag Alder	Medium	5 - 10 feet	Tall Shrub	
	Red Maple	5	Pole/Log	8		Labrador Tea	Low	< 5 feet	Tall Shrub	
	Tamarack	8	Log/Pole	11						
64	10110 51									
61	42140 - Plant	ted Mixed F	Pine Po	letimb	er Well	4.4 56	111-140	N/A		This stand is a near even mix of planted red pine and natural origin jack
רס	42140 - Plant		Pine Po		er Well	4.4 56 Sub-Canopy Spe		N/A Avg. Height	Size	pine. The north and south ends are heavier to jack pine while the middle
רס									Size Sapling	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter.
01	Canopy Species	% Cover	Size Class	DBH		Sub-Canopy Spe	cies Density	Avg. Height		pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope.
01	Canopy Species Bigtooth Aspen	% Cover	Size Class Pole/Sapling	DBH		Sub-Canopy Spec	Density Trace	Avg. Height Variable	Sapling	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basal area before considering
01	Canopy Species Bigtooth Aspen Balsam Fir	% Cover 6 1	Size Class Pole/Sapling Pole	DBH 6 5		Sub-Canopy Spe Balsam Fir Red Maple	Trace Trace	Avg. Height Variable Variable	Sapling Sapling	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basel area before considering.
01	Canopy Species Bigtooth Aspen Balsam Fir Red Oak	% Cover 6 1	Size Class Pole/Sapling Pole Log/XLog	DBH 6 5 15		Sub-Canopy Spe Balsam Fir Red Maple	Trace Trace	Avg. Height Variable Variable	Sapling Sapling	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basal area before considering
62	Canopy Species Bigtooth Aspen Balsam Fir Red Oak Red Pine	% Cover 6 1 1 45 47	Size Class Pole/Sapling Pole Log/XLog Pole/Log Pole	DBH 6 5 15 9 7	Age	Sub-Canopy Spe Balsam Fir Red Maple	Trace Trace	Avg. Height Variable Variable	Sapling Sapling	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basal area before considering a harvest.
	Canopy Species Bigtooth Aspen Balsam Fir Red Oak Red Pine Jack Pine 4134 - Aspe	% Cover 6 1 1 45 47 en, Spruce/	Size Class Pole/Sapling Pole Log/XLog Pole/Log Pole Fir Po	DBH 6 5 15 9 7	Age 56	Sub-Canopy Special Balsam Fir Red Maple Black Cherry	Density Trace Trace Low 51-80	Avg. Height Variable Variable Variable N/A	Sapling Sapling Tall Shrub	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basal area before considering a harvest. '11: OI Stand Year Origin was 1975 '21: Aspen w/a conifer component that 'jets' in/out depending on location.
	Canopy Species Bigtooth Aspen Balsam Fir Red Oak Red Pine Jack Pine 4134 - Aspe	% Cover 6 1 1 45 47 en, Spruce/	Size Class Pole/Sapling Pole Log/XLog Pole/Log Pole Fir Po Size Class	DBH 6 5 15 9 7	Age 56 er Well Age	Sub-Canopy Special Balsam Fir Red Maple Black Cherry	Density Trace Trace Low 51-80	Avg. Height Variable Variable Variable N/A Avg. Height	Sapling Sapling Tall Shrub	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basal area before considering a harvest. '11: OI Stand Year Origin was 1975 '21: Aspen w/a conifer component that 'jets' in/out depending on location. A bit more open/lighter stocked in south. Closes up/higher stocking as
	Canopy Species Bigtooth Aspen Balsam Fir Red Oak Red Pine Jack Pine 4134 - Aspe	% Cover 6 1 1 45 47 en, Spruce/	Size Class Pole/Sapling Pole Log/XLog Pole/Log Pole Fir Po Size Class Pole/Log	DBH 6 5 15 9 7 lletimber DBH 8	Age 56	Sub-Canopy Special Balsam Fir Red Maple Black Cherry 13.7 46 Sub-Canopy Special Sub-Canopy Special Sub-Canopy Special Balsam Fir Red Maple Black Cherry	Density Trace Trace Low 51-80 Density	Avg. Height Variable Variable Variable N/A	Sapling Sapling Tall Shrub Size Sapling	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basal area before considering a harvest. '11: OI Stand Year Origin was 1975 '21: Aspen w/a conifer component that 'jets' in/out depending on location. A bit more open/lighter stocked in south. Closes up/higher stocking as you move north. Low-end of 75-100% closure is about average. Some of the conifer stems were +4-5" of the avg DBH listed above. Some minor
	Canopy Species Bigtooth Aspen Balsam Fir Red Oak Red Pine Jack Pine 4134 - Aspec Canopy Species Quaking Aspen	% Cover 6 1 1 45 47 en, Spruce/ % Cover 55	Size Class Pole/Sapling Pole Log/XLog Pole/Log Pole Fir Po Size Class	DBH 6 5 15 9 7	Age 56 er Well Age	Sub-Canopy Special Balsam Fir Red Maple Black Cherry 13.7 46 Sub-Canopy Special Sub-Can	Trace Trace Low 51-80 Density Medium	Avg. Height Variable Variable Variable N/A Avg. Height 10 - 20 feet	Sapling Sapling Tall Shrub Size Sapling Sapling	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basal area before considering a harvest. '11: OI Stand Year Origin was 1975 '21: Aspen w/a conifer component that 'jets' in/out depending on location. A bit more open/lighter stocked in south. Closes up/higher stocking as you move north. Low-end of 75-100% closure is about average. Some of the conifer stems were +4-5" of the avg DBH listed above. Some minor 'low' areas around perimeter, specifically a dense pocket of conifer
	Canopy Species Bigtooth Aspen Balsam Fir Red Oak Red Pine Jack Pine 4134 - Aspec Canopy Species Quaking Aspen White Pine	% Cover 6 1 1 45 47 en, Spruce/ % Cover 55 10	Size Class Pole/Sapling Pole Log/XLog Pole/Log Pole Fir Po Size Class Pole/Log Pole/Log Pole/Log	DBH 6 5 15 9 7 lletimber DBH 8 9	Age 56 er Well Age	Sub-Canopy Special Balsam Fir Red Maple Black Cherry 13.7 46 Sub-Canopy Special White Pine Balsam Fir	Trace Trace Trace Low 51-80 Cies Density Medium Medium	Avg. Height Variable Variable Variable N/A Avg. Height 10 - 20 feet Variable	Sapling Sapling Tall Shrub Size Sapling Sapling Sapling Sapling	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basal area before considering a harvest. '11: OI Stand Year Origin was 1975 '21: Aspen w/a conifer component that 'jets' in/out depending on location. A bit more open/lighter stocked in south. Closes up/higher stocking as you move north. Low-end of 75-100% closure is about average. Some of the conifer stems were +4-5" of the avg DBH listed above. Some minor 'low' areas around perimeter, specifically a dense pocket of conifer sap/pole in center/west of stand. Also ~1ac inclusion of some larger
	Canopy Species Bigtooth Aspen Balsam Fir Red Oak Red Pine Jack Pine 4134 - Aspe Canopy Species Quaking Aspen White Pine Jack Pine	% Cover 6 1 1 45 47 en, Spruce/ % Cover 55 10 5	Size Class Pole/Sapling Pole Log/XLog Pole/Log Pole Fir Po Size Class Pole/Log Pole/Log Pole/Log Pole/Log Pole/Log Pole/Sapling	DBH 6 5 15 9 7 DBH 8 9 8	Age 56 er Well Age	Sub-Canopy Special Balsam Fir Red Maple Black Cherry 13.7 46 Sub-Canopy Special White Pine Balsam Fir Black Spruce	Trace Trace Trace Low 51-80 Density Medium Medium Medium Medium	Avg. Height Variable Variable Variable N/A Avg. Height 10 - 20 feet Variable 10 - 20 feet	Sapling Sapling Tall Shrub Size Sapling Sapling	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basal area before considering a harvest. '11: OI Stand Year Origin was 1975 '21: Aspen w/a conifer component that 'jets' in/out depending on location. A bit more open/lighter stocked in south. Closes up/higher stocking as you move north. Low-end of 75-100% closure is about average. Some of the conifer stems were +4-5" of the avg DBH listed above. Some minor 'low' areas around perimeter, specifically a dense pocket of conifer
	Canopy Species Bigtooth Aspen Balsam Fir Red Oak Red Pine Jack Pine 4134 - Aspe Canopy Species Quaking Aspen White Pine Jack Pine Black Spruce Balsam Fir	% Cover 6 1 1 45 47 en, Spruce/ % Cover 55 10 5 8	Size Class Pole/Sapling Pole Log/XLog Pole/Log Pole Fir Po Size Class Pole/Log Pole/Log Pole/Log Pole/Log Pole/Log Pole/Log Pole/Log Pole/Sapling Pole/Sap/Log	DBH 6 5 15 9 7 DBH 8 9 8 6	Age 56 er Well Age	Sub-Canopy Special Balsam Fir Red Maple Black Cherry 13.7 46 Sub-Canopy Special White Pine Balsam Fir Black Spruce Jack Pine	Trace Trace Trace Low 51-80 Cies Density Medium Medium Medium Low	Avg. Height Variable Variable Variable N/A Avg. Height 10 - 20 feet Variable 10 - 20 feet >20 feet	Sapling Sapling Tall Shrub Size Sapling Sapling Sapling Sapling Sapling Sapling	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basal area before considering a harvest. 111: OI Stand Year Origin was 1975 121: Aspen w/a conifer component that 'jets' in/out depending on location. A bit more open/lighter stocked in south. Closes up/higher stocking as you move north. Low-end of 75-100% closure is about average. Some of the conifer stems were +4-5" of the avg DBH listed above. Some minor 'low' areas around perimeter, specifically a dense pocket of conifer sap/pole in center/west of stand. Also ~1ac inclusion of some larger RP,WP,JP in NW (was formally its own stand). BA swings= 80,60,40
	Canopy Species Bigtooth Aspen Balsam Fir Red Oak Red Pine Jack Pine 4134 - Aspe Canopy Species Quaking Aspen White Pine Jack Pine Black Spruce	% Cover 6 1 1 45 47 en, Spruce/ % Cover 55 10 5 8 14	Size Class Pole/Sapling Pole Log/XLog Pole/Log Pole Fir Po Size Class Pole/Log Pole/Log Pole/Log Pole/Log Pole/Log Pole/Sapling	DBH 6 5 15 9 7 See 15 15 9 9 7 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Age 56 er Well Age	Sub-Canopy Special Balsam Fir Red Maple Black Cherry 13.7 46 Sub-Canopy Special White Pine Balsam Fir Black Spruce Jack Pine Red Pine	Trace Trace Trace Low 51-80 Density Medium Medium Medium Low Low	Avg. Height Variable Variable Variable N/A Avg. Height 10 - 20 feet Variable 10 - 20 feet >20 feet >20 feet	Sapling Sapling Tall Shrub Size Sapling Sapling Sapling Sapling Sapling	pine. The north and south ends are heavier to jack pine while the middle of the stand has more red pine. The jack pine is mostly small diameter. Trace of white pine and black spruce poletimber. Average ba/acre from 5 plots = 122 square feet. Most of the stand sits on a west facing slope. Allow the stand to increase in diameter and basal area before considering a harvest. 111: OI Stand Year Origin was 1975 121: Aspen w/a conifer component that 'jets' in/out depending on location. A bit more open/lighter stocked in south. Closes up/higher stocking as you move north. Low-end of 75-100% closure is about average. Some of the conifer stems were +4-5" of the avg DBH listed above. Some minor 'low' areas around perimeter, specifically a dense pocket of conifer sap/pole in center/west of stand. Also ~1ac inclusion of some larger RP,WP,JP in NW (was formally its own stand). BA swings= 80,60,40



Stand	Level 4 C	over Type	S	ize De	nsity	Acres	Stand Age E	A Range	Managed S	Site	General Comments
63	4130	- Aspen	Po	oletimb	er Well	17.1	55	81-110	N/A		McDonald '11: Stand Year Origin was 1966.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	JSP '21: Pretty much top to bottom a BTA stand. RO left when harvested in mid-60's. The oak is pretty well scattered throughout, except for a more
	Bigtooth Aspen	72	Pole/Sap/Log	8	55	Re	d Maple	Medium	>20 feet	Sapling	prominent clump located in the narrow northern area (a 25" RO present in
	Red Maple	12	Pole/Sap/Log	6		R	ed Oak	Low	10 - 20 feet	Sapling	stand). Aspen in conversion from pole to log, still a fair amount of saps
	Red Oak	6	Log/XLog/Pole	15	100	Wł	nite Pine	Low	10 - 20 feet	Sapling	though. A few conifer hanging out in the sub-can, as well as some RO regen. RM saps off-the-stump generally medium, some areas flirting
	Paper Birch	2	Pole	7		Ва	lsam Fir	Low	10 - 20 feet	Sapling	w/'high' density. Incidental/trace components of WO (saw 1-log in west),
	White Pine	2	Pole/Log	8		Ja	ick Pine	Low	10 - 20 feet	Sapling	RP (xlog/log) and the PB,WP,JP listed in canopy. BA swings=
	Jack Pine	3	Pole/Log	8						1	1 100,140,180,70,100,70 (110avg). Planted red pine (from Std.46) present in north, west of the forest rd. The
	Red Pine	3	Pole/Sapling	7	60						planted RP is P/S and overtopped by BTA. Then saw trace natural RP in
											remainder of stand (xlog/log). RP listed in canopy represents the planted RP from Std.46.
64	42110 - Pla	inted Red F	Pine Sav	vtimber	Medium	20.4	62	111-140	N/A		Stand thinned in 2015 but it also looks like all jack pine was removed.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	This has resulted in highly variable BAs with scattered areas of low stocking. Jack pine has seeded into a few of these openings. Average
	Red Pine	100	Log/Pole	10	62	Re	d Maple	Low	< 5 feet	Sapling	ba/acre from 9 plots = 113 square feet.
						Ja	ick Pine	Low	< 5 feet	Seeding	, , ,
						R	ed Pine	Trace	< 5 feet	Seeding	
						Blac	ck Cherry	Low	5 - 10 feet	Tall Shrub	
						Bigto	oth Aspen	Trace	5 - 10 feet	Sapling	
65	4132 - Asp	en, Jack P	ine :	Sapling	Well	6.1	27	Immature	N/A		Well-stocked stand of aspen with some clumps of jack pine. Most jack
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pine is free to grow but there are some areas where the aspen is overtopping the jack pine. The aspen is mostly healthy and doesn't show
	Red Maple	5	Sapling	2		Ja	ick Pine	Medium	Variable	Sapling	any signs of past browse damage. Trace of balsam fir, black spruce, and
	Jack Pine	30	Sapling	3		Blac	ck Cherry	Trace	Variable	Tall Shrub	white pine saplings.
	Bigtooth Aspen	65	Sapling	3	27						
66	4130	- Aspen	Po	oletimb	er Well	20.1	55	111-140	N/A		Moderate quality aspen stand. Diameters tend to vary significantly
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	throughout the stand. A small component of larger, older aspen is scattered infrequently throughout and a lot of these are poor quality with
	White Pine	1	Pole/Log	8		Re	d Maple	Medium	Variable	Sapling	lots of rot. There are also a few areas with smaller saplings mixed in,
	Balsam Fir	2	Pole	6		Ва	lsam Fir	Low	Variable	Sapling	particularly the narrow central part of the stand as well as a few areas
	Jack Pine	9	Pole/Log	8		Ja	ick Pine	Trace	Variable	Sapling	along the north and south edges. The area in the middle of the stand also has some small jack pine mixed in. I'm guessing this area was harvested
	Red Maple	3	Pole/Log	8		Wh	nite Pine	Trace	Variable	Sapling	with stand 6 to the south or stand 68 to the north but it's hard to tell on
	Bigtooth Aspen	85	Pole/Log	8	55	Blad	ck Cherry	Trace	Variable	Tall Shrub	imagery. Trace of red oak, red pine, and paper birch in the overstory.
	Digitotiii Asperi	00	F UIE/LUG	O	33	ыас	on Ollelly	Trace	valiable	Tall Stilluk	Average ba/acre from 10 plots = 129 square feet.



Stand	76.		e Si	ize De	nsity	Acres	Stand Age BA	Range	Managed S	Site	General Comments
67	42260 - Natural Pin	ne, Mixed	Deciduous S	Sapling	Well	12.8	27	1-50	N/A		McDonald '11: Stand Year Origin was 1994
	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	JSP '21: Fairly dense/consistent stocking of mainly JP/BTA. Areas along/near SE boundary were somewhat lower stocked. E1/2 of stand
	Jack Pine	52	Sapling/Pole	4	27	Whi	te Pine	Medium	5 - 10 feet	Sapling	tended to be a mixture of JP/BTA. West 1/2 was primarily JP dominant.
	Red Pine	5	Sapling/Pole/Log	3		Re	d Pine	Medium	5 - 10 feet	Sapling	Scattered/minor residual WP, RP a few RO. Small area in NW had half-
	Bigtooth Aspen	26	Sapling/Pole	4		Black	k Cherry	Low	5 - 10 feet	Sapling	dozen or so residual BTA stems located on a slightly sloped piece of ground. Stand as a whole is regenerating well, some pole sizes emerging
	White Pine	8	Sapling/Pole/Log	3		Common Lov	wbush Blueberr	y Medium	< 5 feet	Tall Shrub	here/there. Somewhat steep slope on west along Stand 5/69, sandy and
	Balsam Fir	3	Sapling/Pole	3							has experienced some erosion. Animal usage appears to of caused some
	Red Oak	3	Sapling/Pole/Log	3							of the erosion (doesn't appear human related anyhow). Trace WhtSprc (sap). No BA swings taken.
	Red Maple	3	Sapling	3							(Sap). No BA Swings taken.
68	42140 - Plant	ted Mixed	Pine Po	letimb	er We	ll 16.3	36 8	31-110	N/A		Natural origin jack pine mixed in with planted red pine. Furrows are
	Canopy Species	% Cove	r Size Class	DBH	Age						present throughout but the red pine is not uniform. Some areas of very dense stocking where the red and jack pine is mixed in together.
	Balsam Fir	1	Pole	5							Diameters vary quite a bit with smaller diameters in the northwest part of
	Red Maple	1	Pole	7							the stand. A few small clones of aspen are present in the middle of the
	Bigtooth Aspen	10	Pole/Sapling	6							stand and they are overtopping the pine. Average ba/acre from 6 plots = 98 square feet. Numerous deer and elk trails throughout. This stand will
	Red Pine	41	Pole/Sapling	6							likely be ready for a thinning next entry but rows will probably have to be
	Jack Pine	47	Pole/Sapling	5	36						marked out as they are not distinguishable in all areas.
						Bals Quaki Blact Rec Red Osi Hawth Wille	sam Fir ng Aspen c Cherry I Maple er Dogwood orn (spp.) ow spp. g Alder ek Pine	Low Trace Medium Low Low Trace Medium Medium Medium Medium	Avg. Height 10 - 20 feet Variable 10 - 20 feet >20 feet >5 feet 5 - 10 feet 5 - 10 feet Variable	Size Sapling Pole Sapling Sapling Tall Shrub Sapling Tall Shrub Sapling Tall Shrub	terraced/steps 'up and down' from the grade itself. Grade has influenced how water moves north out of the large lowland complex (stand 52). This stand moves water, seasonally, when conditions are excessively wet. Course was dry but 'well defined' during my visit (OFS w/pic available). Stand itself is a mixture of willow, alder, JP (sap through log) and other species listed above. Extreme southern/narrow tail was quite wet/thick w/lowland shrubs. Mentioned this in Stand 5 comments, some eroding slope on east against Stand 67. Appears animal usage up/down those slopes has contributed to the sandy soils eroding in areas.
70	6124 - Lowla				er Poo			51-80	N/A	C:	Poor quality stand on very wet ground. The only areas of better quality and stocking are along the north edge which is on the upland/lowland
	Canopy Species Red Pine	% Cove		16	Age		opy Species sam Fir	Density Medium	Avg. Height Variable	Size	transitional zone. There is a small upland inclusion at the northeast part
	White Pine	2	Log/XLog	16				Trace	Variable	Sapling	of the stand, west of the road, which has some large diameter red and white pine. Average ba/acre from 6 plots = 77 square feet. A small
	Balsam Poplar	3	Log/XLog Pole	7			c Spruce er Birch	Trace	>20 feet	Sapling Sapling	stream crosses Road 5 and does not have a proper culvert, it is currently
	Red Maple	4	Pole	7					Variable	Tall Shrub	flowing across the road.
	Paper Birch	2	Pole	7			g Alder	High Low	5 - 10 feet	Tall Shrub	1
N.I.~	<u>'</u>					ivan	nyberry	LOW	o - To reet	Tall Stilut	
INO	rthern White Cedar	17	Pole/Log	8							
	Black Spruce	25	Pole/Log		67						
	Balsam Fir	45	Pole	6	67						



Stand	l Level 4 C	over Type	· s	ize De	ensity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments
71	42220 - Nat	tural Jack I	Pine	Saplin	g Well	5.9	27	1-50	N/A		11: OI Stand Year Origin was 1994
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	'21: Jack pine regen is quite dense, pole sizes emerging across most species. Perimeter areas generally feature the non-JP species.
	Jack Pine	82	Sapling/Pole	4	27	Bla	ck Cherry	Medium	10 - 20 feet	Sapling	Transitional ground (softer/seasonally wet) along southern boundary.
	White Pine	3	Sapling/Pole	4		Ва	ılsam Fir	Medium	5 - 10 feet	Sapling	
	Red Maple	3	Sapling	3		Blac	ck Spruce	Low	5 - 10 feet	Sapling	
	Red Oak	3	Sapling	3							_
	Bigtooth Aspen	3	Sapling/Pole	4							
	Quaking Aspen	3	Sapling/Pole	4							
	Balsam Fir	3	Sapling/Pole	4							
72	4311 - Pin	e, Aspen M	Mix Po	oletimb	er Wel	47.2	35	51-80	N/A		'11: OI Stand Year Origin was 1986'21: Majority of stand is teetering on
	Canopy Species	% Cove	r Size Class	DBH	l Age						'true' conversion to pole sizes. Inconsistent/patchy stocking, open in areas, ~75% overall can-closure. Many pine/conifer stems are the
	Bigtooth Aspen	40	Pole/Sap/Log	5	35						same/similar DBH as aspen (good soils here for pine/conifer).
	Quaking Aspen	3	Pole/Sapling	5							Pine/conifer regen is very dominant in areas. Scattered 2nd age class of
	Jack Pine	18	Pole/Sap/Log	5							residual RO, RP and some WP/JP (tough to feature those stems separately in MiFI). Small inclusion of un-harvested/mature stems in
	White Pine	12	Sapling/Pole/Lo	g 4							north. Trace BlkSprc/PB poles near Grass Lake.
	Red Pine	12	Pole/Sap/Log	5	78						
	Balsam Fir	4	Sapling/Pole	4							
	Red Maple	5	Sapling/Pole	4							
	Red Oak	6	Sapling/Pole/Lo	g 3							
73	4311 - Pin	e, Aspen N	Vlix :	Saplin	g Well	20.9	27	1-50	N/A		Strong pine component in the regen layer (mainly RP), especially in
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	southern portions of the stand. Scattered/consistent 2nd age class of residual red oak present, RO stems I observed appeared happy/healthy.
	Bigtooth Aspen	38	Sapling/Pole	3	27		Beech	Low	5 - 10 feet	Sapling	McDonald noted browse pressure from deer/elk during visit in '11. Seem
	Red Maple	5	Sapling	2							like the stems that were going to 'make it', have made it. Didn't see muc
	Red Pine	22	Sapling/Pole	3							in the way of new browse pressure during '21 visit.
	White Pine	14	Sapling/Pole/Lo	g 3							
	Jack Pine	12	Sapling/Pole	3							
	Red Oak	9	Log/Pole/Sap	12	68						
74	500	- Water		Nonsto	ocked	10.7	U	nspecified	No		Grass Lake. Previously listed as a 'Marsh' in Operations Inventory (OI). When I observed in Feb'21 there wasn't any ice and/or water. So this feature likely holds water seasonally
75	42290 - Nati	ural Mixed	Pine Sa	awtimb	er Wel	8.3	86	111-140	N/A		Multiple lower stocked/wet leatherleaf pockets mixed in throughout. Jack
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pine has fallen out/expired in areas. Slopes (most gradual) lead down in this stand.
	Jack Pine	18	Pole/Log	8			ck Spruce	Medium	10 - 20 feet	Sapling	uno otana.
	Red Pine	55	Log/Pole/XLog	12	86	Ва	ılsam Fir	Medium	Variable	Sapling	
	White Pine	10	Log/Pole/XLog			W	hite Pine	Medium	Variable	Sapling	
	Black Spruce	6	Pole/Log	8		R	ed Oak	Low	Variable	Sapling	
	Balsam Fir	3	Pole	7			ed Pine	Medium	>20 feet	Sapling	
	Red Maple	5	Pole/Sapling	6		Le	atherleaf	High	< 5 feet	Tall Shruk	
	Bigtooth Aspen	3	Log	14							•

Log/XLog/Pole

Log/Pole

17 12

3

3

Compartment: 19 Year of Entry: 2023



Stand	d Level 4 C	over Type	e Si	ze De	ensity	Acres	Stand Age B	A Range	Managed S	iite	General Comments
76	4311 - Pin	e, Aspen I	Mix S	aplin	g Well	38.5	26	1-50	N/A		Sigh, MiFI won't allow correct species representation of this 2-aged
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand. Saplings (now some poles) are the featured/dominant layer, then a 2nd age class of residual (in order of prevalence) RP (L/XL), RO (L), WP
	Bigtooth Aspen	46	Sapling/Pole	4	26		Beech	Low	5 - 10 feet	Sapling	(L) and JP (L/P) . A very broad mixture of species in the featured
	Red Pine	12	Log/Pole/Sap	14	78	Pa	per Birch	Medium	>20 feet	Sapling	sap/pole layer, almost all desirable. Stocking throughout is
	Red Maple	5	Sapling/Pole	4	<u> </u>						¹ variable/patchy: swathes of JP regen, consistent BTA in most areas, decent presence of RP/WP and lesser stocking of PB/RO/RM. Residuals
	Balsam Fir	4	Sapling/Pole	3							appeared healthy and providing/provided a good seed source for
	Red Oak	5	Log/Pole/Sap	14							volunteer establishment. Regen south of Rd.5 appeared older (more
	Jack Pine	20	Sapling/Pole/Log	3							poles) and with a higher stocking of residual pine stems (think this area has a different treatment history).
	White Pine	8	Sapling/Pole/Log	3							nas a umerent neatment history).
77	4311 - Pin				g Well	14.1		mmature	N/A		Mainly aspen regen with a good component of conifer throughout. JP saps make up the bulk of the conifer regen. Southern and eastern areas
	Canopy Species		r Size Class	_	l Age		nopy Species	Density	Avg. Height	Size	where conifer/pine saps dominate. Scattered residual red oak and a few
	Bigtooth Aspen	50	Sapling	2	17	Blad	ck Spruce	Low	< 5 feet	Sapling	
	Quaking Aspen	5	Sapling	2							species 'influence' Stand 78.
	Jack Pine	18	Sapling	3							
	White Pine	8	Sapling/Pole	3							
	Red Pine	8	Sapling/Pole	3							
	Balsam Fir	5	Sapling	2							
	Red Oak	2	Sapling	2							
	Red Oak	4	Log	12							
78	6129 - Mixed Conif	erous Low	land Forest Pol	letimb	er Well	22.7	102 Ui	nspecified	N/A		Intermittent creek runs east/west through the northern block of this stand.
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Slopes lead quickly down to the stream bed. Didn't see all of the northern area, portions I did see had a broader mix of species than the narrow
No	orthern White Cedar	45	Pole/Log	8	102	Ва	ılsam Fir	Medium	5 - 10 feet	Sapling	southern 'tail'. Southern tail was pretty darn wet, areas of significant ash
	Balsam Fir	15	Pole/Sapling	5		Northern	n White Cedar	Medium	>20 feet	Sapling	mortality that is being reclaimed by a mix of conifer (some deciduous)
	Quaking Aspen	4	Log/XLog/Pole	16				,			saps. Then areas of cedar dominance (generally small pole) in south. Cedar saps listed in sub-can are suppressed stems, generally same
	Red Maple	6	Log/Pole	10							height/age as the 'true' NWC in canopy.
	Black Spruce	15	Pole/Sap/Log	7							
	Paper Birch	3	Pole/Log	7							
	Balsam Poplar	3	Log/Pole	14							
	White Pine	3	Log/XLog/Pole	17							
		_									

Red Pine

Tamarack

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Stand	d Level 4 C	over Type	: S	Size De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
79	4134 - Asp	en, Spruce	e/Fir Po	oletimb	er Well	30.5	37	51-80	N/A		'11: OI Stand Year Origin was 1986
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	'21: A fair amount of QA stems have converted to pole sizes. Aspen diameters larger where conifer component was less dense, smaller if
	Quaking Aspen	45	Pole/Sap/Log	6	37		lsam Fir	High	10 - 20 feet	Sapling	more dense. Majority of BF (and remaining species) hovering around
	Balsam Fir	30	Sapling/Pole	4	37						large sap/small pole DBH's. Overall a 'closed-canopy' but not yet 'well
	Red Maple	8	Sapling/Pole	4	37						stocked' w/pole sizes. Scattered 2nd age class of large red oak residuals from harvest. Trace clumps of P/L NWC and scattered pole RP.
	Paper Birch	5	Sapling/Pole	4							non harvest. Trace clumps of 172 NWO and scattered pole IVI.
	Red Oak	3	Log/XLog	17							
	White Spruce	3	Sapling/Pole	4							
	White Pine	3	Pole/Sapling	5							
	Balsam Poplar	3	Pole/Sapling	6							
80	4191 - Mixed Upl Co Canopy Species	onifer	uous with Sa		er Well	9.4	90	51-80	N/A Avg. Height	Size	Small mixed stand, RO tended to be most common. Appears that some kind of removal Rx went through the stand, likely 50 or more years ago. RM was the obvious 'off-the-stump' regen, and some of the aspen are
		18		10	Age		d Maple	Medium	>20 feet		likely regen stems. Some adjacent stands were cut in the mid-60's
	Bigtooth Aspen Red Maple	4	Log/Pole Pole/Sapling	5			nite Pine	Medium	10 - 20 feet	Sapling Sapling	timeframe. Remainder of stand is rare in the sense that it appears lightly managed. Variable/reduced canopy closure, mostly in west a top a
	Red Oak	57	Log/Pole	12	90		ck Pine	Low	10 - 20 feet	Sapling	knob/high-point populated by wider-crowned RO. BTA/JP mixing in
	White Pine	5	Pole/Log	8	90		Isam Fir	Low	10 - 20 feet	Sapling	throughout, east end and NW a bit more JP dominant. S/P and P/S RM
	Jack Pine	8	Pole/Log	8			oth Aspen	Low	>20 feet	Sapling	experiencing mortality, appears to be the result of repetitive browse damage/being in a suppressed canopy position for quite some time.
	Red Pine	5	Log/Pole	11	67		ed Oak	Medium	10 - 20 feet	Sapling	Canopy closure averages low-end of 75-100%. Minor components of
	White Oak	1	Log/Pole	16	107		nite Oak	Trace	10 - 20 feet	Sapling	generally scattered WP/RP and trace WO (log/1-pole) and BF (pole).
	Balsam Fir	2	Pole	7	107		ed Pine	Low	10 - 20 feet	Sapling	Stand 47, to the NW, was recently harvested, nearly all regen has been consumed/eaten. Unsure what the previous covertype was,
	Daisaili Fii		FOIE	1		IX.	eu Fille	LOW	10 - 20 leet	Sapility	residuals/proximity suggest it was similar to this stand BA swings= 50,100,50,40,90,40,50 (60avg)
81	4139 - Aspen,	Mixed Dec	ciduous Po	oletimb	er Well	5.8	50	51-80	N/A		McDonald '11: Stand Year Origin was 1966 JSP '21: Aged a 4.4" BTA at 50yrs, 5yr difference from McDonald's age
	Canopy Species	% Cove	r Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	above. This stand has the ~same Rx history and dominant/second age
	Bigtooth Aspen	52	Pole/Sapling	6	50	Wh	nite Pine	Low	10 - 20 feet	Sapling	as Stand 19, but aspen stems noticeable smaller and still moving from
	Red Maple	18	Sapling/Pole	4		Re	d Maple	Medium	>20 feet	Sapling	large sap into small pole sizes. RM is 'off-the-stump' regen, majority of which are still sap size. Scattered but consistent 2nd/older age class of
	Red Oak	12	Log/XLog/Pole				ed Oak	Low	10 - 20 feet	Sapling	RO/WO, all those I observed appeared healthy. As mentioned in Stand
	White Pine	3	Pole	7		WI	nite Oak	Low	10 - 20 feet	Sapling	19 comments, from what I observed during inventory, these two stands
	Jack Pine	6	Pole	7		Re	ed Pine	Low	5 - 10 feet	Sapling	hold the majority of the white oak component found within the
	Red Pine	3	Log/Pole	11		Ва	lsam Fir	Trace	10 - 20 feet	Sapling	compartment. Some natural and a few planted RP (from Std.2) present, as are a few pole sized WP stems. RM saps 'high' in areas. WO saps
	White Oak	6	Log/XLog/Pole	16	107	Blac	k Spruce	Trace	10 - 20 feet	Sapling	ranged 5-20ft tall. BA swings= 40,90,50,20 (50avg)
						Strip	ed Maple	Trace	10 - 20 feet	Sapling	·
						Wh	nite Pine	Low	< 5 feet	Seeding	
						_					I and the second

Low

< 5 feet

Red Pine

Seeding

7

Pole

Report 7 - Stands

Compartment: 19 Year of Entry: 2023



Stand I	Level 4 Cove	r Type	s	ize Deı	nsity	Acres	Stand Age E	A Range	Managed S	ite	General Comments	
82 6129 - Mi	xed Coniferou	us Lowl	and Forest Po	oletimbe	er Well	3.7	108	141-170	N/A		Could call Log or Pole dominant. Hem/NWC mix w/scattered but	
Canopy S	Species %	Cover	Size Class	DBH	Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	consistent component of XL/L (some Legacy) WP super-can trees. Didn't have room for the following species in the canopy: QA (~2%, XL/L), trace	
Hemloo	ck	38	Pole/Log/Sap	9	108	Bal	Balsam Fir Medium Variable Sapling AmEIm (L/P) and RO (Pole). S		AmElm (L/P) and RO (Pole). Site seemingly had 'upland' areas when			
Northern Whit	te Cedar	30	Pole/Log	8		Re	d Maple	Low	>20 feet	Sapling	visited/was quite walkable. Other areas wet w/blowdown. Heavy ungu	
Red Ma	ple	6	Log/Pole	10		He	emlock	Medium	>20 feet	Sapling	usage observed.	
White Pi	ine	14	XLog/Log	22		Northern	White Cedar	Low	>20 feet	Sapling		
Paper Bi	rch	2	Log/Pole	10								
Red Pir	ne	2	XLog/Log	20								
Balsam	Fir	8	Pole/Sapling	7								
83 4191 - N	Mixed Upland Conife		ious with Sa	awtimbe	er Well	22.0	77	81-110	N/A		Fairly diverse/little bit of everything. East 5ac was formally Std81, features isolated wet/low areas and holds more BF/QA in canopy.	
Canopy S	Species %	Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Species dominance 'toggles', ~center area(s) held more pine/conifer, increased deciduous outside those areas. Nearly all perimeter locations	
Bigtooth A	spen	22	Log/XLog/Pole	15		Bal	sam Fir	High	>20 feet	Sapling	gently slope down (into wet on north & east), north more prominent slope	
Sugar Ma	aple	3	Pole	8		Re	d Maple	Low	>20 feet	Sapling	into the intermittent creek bed. Very consistent sub-can BF, most 20ft or	
Red Ma	ple	24	Pole/Log	9	77	Sug	ar Maple	Low	>20 feet	Sapling	greater. Legacy WP present, didn't have room to include BlkSprc in canopy (P, 2-3%), trace BAM (P/L) and YB is likely present.	
Red Oa	ak	2	Log/Pole	15		Wh	ite Pine	Medium	Variable	Sapling	- carlopy (1 , 2-370), trace BAIN (1 /L) and 1 B is likely present.	
Red Pir	ne	8	Log/XLog/Pole	15		Whit	e Spruce	Low	>20 feet	Sapling		
White Pi	ine	10	Log/Pole/XLog	13		Pap	er Birch	Low	>20 feet	Sapling		
Quaking A	spen	8	Log/XLog/Pole	14		Bal	sam Fir	Medium	< 5 feet	Seeding		
Northern Whit	te Cedar	2	Pole/Log/XLog	9		Re	ed Pine	Trace	< 5 feet	Seeding		
Paper Bi	rch	8	Pole	8							-	
Balsam	Fir	10	Pole/Sap/Log	7								
White Spi	ruce	2	Log/Pole	14								
84 429	- Mixed Upla	ınd Con	nifers Po	oletimbe	er Well	4.4	51	51-80	N/A		'11: OI Stand Year Origin was 1970.	
Canopy S	Species %	Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	21: May of been an old seed-tree type harvest, scattered and clumps of RP in areas, some quite large/xlog. Remainder of stems anywhere from	
Red Pir	ne	15	Log/Pole/XLog	15	88	Bal	sam Fir	High	Variable	Sapling	sap/pole, pole/sap and pole/log. Canopy closure variable, lower end of 75	
Balsam	Fir	18	Pole/Log	8		Wh	ite Pine	Medium	10 - 20 feet	Sapling	100% appeared average. Lowland influence along western/northern	
Jack Pi	ne	20	Pole	8	51	Re	ed Pine	Low	10 - 20 feet	Sapling	boundary. Intermittent drainage/creek shortly beyond northern boundary of this stand.	
White Pi	ine	8	Log/Pole	11		Blac	k Spruce	Medium	10 - 20 feet	Sapling	or this stand.	
Red Ma	ple	12	Pole	9							_	
Paper Bi	rch	6	Pole	8								
Quaking A	spen	9	Log/Pole	14								

Black Spruce

12



Stand Level 4 Co		over Type	e Si	ze De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments		
85	42210 - Nat	ural Red I	Pine Sa	wtimb	er Well	6.7	92	141-170	N/A		Natural (likely fire origin) R/MC9 stand. Stocking is variable upon location		
Ca	nopy Species	% Cove	r Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	BA swings from south to north: 300,160,170,90 (180-avg). Stocking tended to remain higher in west 1/2 and in the southern 'squiggly' area.		
	Red Pine	62	Log/XLog/Pole	16	92	Ва	lsam Fir	High	Variable	Sapling	Squiggly south area holds a higher amount of NWC w/RP&WP mixed (300BA swing from there). Most of the natural RP/WP present were of		
V	Vhite Pine	16	Log/Pole/XLog	14		Northern	White Cedar	Low	>20 feet	Sapling			
Northe	ern White Cedar	5	Pole/Log/Sap	9		Wh	nite Pine	Low	Variable	Sapling	the quite tall/fairly well self-pruned variety. Deciduous increases in eas along Std83. Legacy WP present and Trace RO logs. Decent		
Qu	aking Aspen	3	Log/XLog	17		Blac	k Spruce	Medium	10 - 20 feet	Sapling	Blk/WhtSprc advanced regen observed.		
Р	aper Birch	3	Pole/Log	9		R	ed Pine	Low	Variable	Sapling			
F	Red Maple	5	Log/Pole	11						•	•		
BI	ack Spruce	3	Pole/Sapling	7									
Big	tooth Aspen	3	Log/Pole/XLog	15									
86	4136 - Aspen	, Mixed C	onifer S	Sapling	g Well	24.0	24	1-50	N/A		Perimeter areas held higher amounts of conifer. Aspen (mainly QA)		
Ca	nopy Species	% Cove	r Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	shares remainder of stand w/clumpy components of conifer. Majority of aspen stems running 3-4", some larger in areas w/less competition. Sem		
	aking Aspen	50	Sapling/Pole	4	24		Beech	Low	5 - 10 feet	Sapling	open/lightly stocked areas common and raspberry still present/miserable		
	hite Spruce	5	Sapling	3		Blackbe	rry/Raspberry	Medium	< 5 feet	Tall Shrub	in spots (but <5'). A very scattered second age class of residual Hem,		
	tooth Aspen	8	Sapling/Pole	4			ck Spruce	Low	< 5 feet	Seeding	NWC, RO (some looked like XO) and WP remain (most healthy).		
	Red Oak	3	Sapling/Pole/Log	3		Whi	te Spruce	Low	< 5 feet	Seeding	McDonald observed heavy browse here in '11 (I didn't see ~much, stems now mostly above browse ht).		
V	Vhite Pine	10	Sapling/Pole/Log	3		WI	nite Oak	Trace	5 - 10 feet	Sapling	,		
Е	Balsam Fir	14	Sapling/Pole	3		Iro	onwood	Low	10 - 20 feet	Sapling			
F	Red Maple	5	Sapling	3									
Р	aper Birch	3	Sapling	3									
	Red Pine	2	Sapling	3									
87	42340 - Upla	and Spruc	e/Fir Pol	letimb	er Poor	0.5	62	1-50	N/A		McDonald's OI inventory stated "High spot in swamp" and coded as an F4. Green sheet data (from '01) had 20BA of BF and grass in the open areas.		
88	42340 - Upla	and Spruc	e/Fir Pol	letimb	er Poor	0.8	62	1-50	N/A		McDonald's OI inventory stated "High spot in swamp" and coded as an F4. Green sheet data (from '01) had 10BA of BF and grass in the open areas.		
89	6128 - Lowland (Deci	Coniferous iduous	s, Mixed Po	letimb	er Well	5.4	104	111-140	N/A		'11: OI Stand Year Origin was 1917 '21: Variable size classes depending on location. Western areas more		
Ca	nopy Species	% Cove	r Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	P/S, then some eastern and northern areas more P/L. Scattered but consistent XL/L/Legacy super-canopy WP present. Clumpy/pockets of		
Northe	ern White Cedar	32	Pole/Log	9	104	Ва	lsam Fir	High	Variable	Sapling	NWC and/or spruce. Wet pockets, tip-ups and alder present. North and		
BI	ack Spruce	16	Pole/Log	8		Blac	k Spruce	Medium	>20 feet	Sapling	northwest areas featured the ~upland transitional/drier ground. BA		
	Balsam Fir	6	Pole/Sapling	7		Re	d Maple	Low	>20 feet	Sapling	swings= 100,120,130 (116avg).		
E				_		_	A I al a	Low	5 - 10 feet	Tall Shrub			
	Vhite Pine	6	XLog/Log	22		1 a	ng Alder	Low	3 - 10 leet	Tall Stilluk			
V		6 12	XLog/Log Log/Pole	10			ck Spruce	Low	< 5 feet	Seeding			
V	Vhite Pine												

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DNR MICHIGAN	100

Stand	Level 4 C	over Type	s	ize De	nsity	Acres	Stand Age B	A Range	Managed 9	Site	General Comments
90	42290 - Natu	ural Mixed	Pine Saw	timber	Mediun	n 2.4	71	51-80	N/A		'11: Stand Year Origin was 1950
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	'21: Mixed conifer, semi-open/low-canopy closure in areas (varies on location). Similar to Stand 91, this stand appears 2-aged, scattered
	Jack Pine	26	Log/Pole	10	71	Ва	lsam Fir	High	10 - 20 feet	Sapling	component of Log/Xlog RP/WP present. At least on legacy WP on east
	White Pine	18	Log/Pole/XLog	12		W	nite Pine	Medium	>20 feet	Sapling	boundary, large/likely legacy RP there too. BA swings= 50,100,40
	Red Pine	22	Log/XLog/Pole	15		R	ed Pine	Low	10 - 20 feet	Sapling	(63avg).
	Balsam Fir	12	Pole/Sap/Log	7		Re	ed Maple	Low	Variable	Sapling	
	Black Spruce	8	Pole	8		Blad	ck Spruce	Low	5 - 10 feet	Sapling	
	Red Maple	10	Pole/Log	9							•
	Quaking Aspen	4	Log	14							
91	42290 - Natu	ural Mixed	Pine Sa	wtimb	er Well	11.6	65	81-110	N/A		Variable Stocking/can-closure is lumpy/clumpy, ranges ~50-100%. Low end of 75-100% seemed average. Wide range of sizes/DBH's present, at
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	least 2-aged (a few scat older legacy's too). Log sizes overall more
	Red Pine	35	Log/Pole/XLog	12	65	W	nite Pine	Medium	>20 feet	Sapling	common yet not fully stocked, a lot of pole/saps throughout. Variable sap
	White Pine	35	Log/Pole/XLog	11			llsam Fir	Medium	>20 feet	Sapling	heights, majority were 20ft or greater. Some wolfy WP present in the semi-open areas in south and far east. Surrounding lowland conifer
	Balsam Fir	4	Pole/Log	8		Blad	ck Spruce	Low	Variable	Sapling	species 'creep' into this stand along most perimeter locations. A few
	Red Maple	4	Pole	7		R	ed Pine	Low	>20 feet	Sapling	legacy WP/RP (27" RP). Trace Red Oak (log). BA swings=
	Black Spruce	6	Pole/Log	8		Re	ed Maple	Low	>20 feet	Sapling	20,80,100,170,180 (110avg).
	Quaking Aspen	5	Pole/Log	9		Ja	ick Pine	Low	>20 feet	Sapling	
	Bigtooth Aspen	3	Pole/Log	9							
	Jack Pine	5	Pole	8							
	Paper Birch	3	Pole/Log	9							
92	6126 - Lowl	and Jack F	Pine Po	letimb	er Well	16.1	49	51-80	N/A		McDonald '11: Stand is a bog-type dominated by leatherleaf and other
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	wetland shrubs.JSP '21: Formally part of Stand 22. Interesting stand and ground that it's growing on. Leatherleaf and lab tea carpet most of
	Jack Pine	52	Pole/Sap/Log	7	49	Ta	amarack	Low	10 - 20 feet	Sapling	the ground, yet at least the N1/2 appears to primarily 'upland'. S1/2 was
	White Pine	5	Pole/Log/XLog	9		Spha	gnum Moss	Medium	Unspecified	Non-Wood	still mostly dry (low/no-snow in 'winter 20/'21) but obvious low spots/alder
	Red Pine	14	Log/Pole/XLog	14	110	R	ed Pine	Low	10 - 20 feet	Sapling	patches/moss/wet and spongy areas. JP consistent throughout, is running large sap/small pole and dominance increases in north (canopy
	Black Spruce	24	Pole/Sap/Log	6		Ja	ick Pine	Medium	>20 feet	Sapling	on low-end of 75-100% in north). S1/2 a broader mixture of JP, spruce,
	Tamarack	3	Pole/Log/Sap	7		Wi	ld Raisin	Low	5 - 10 feet	Tall Shrub	
No	rthern White Cedar	2	Pole/Log	8		Ta	ag Alder	Medium	5 - 10 feet	Tall Shrub	deciding on 'Low w/up' or 'Up w/low'. The lowland indicator species landed me on 'Low w/up'. Cored a JP (7.8") and RP (14.1"). RP showed
						W	nite Pine	Medium	10 - 20 feet	Sapling	huge growth gains starting at ~about year 50, the same time the JP
						Blac	ck Spruce	High	10 - 20 feet	Sapling	established. Either fire, harvested, something else happened here 50yrs
						Bla	ck Cherry	High	5 - 10 feet	Sapling	ago. BA swings= 80,40,40,30,70 (52avg)
							llsam Fir	Low	10 - 20 feet	Sapling	
							ed Maple	Low	>20 feet	Sapling	
							ck Spruce	Medium	< 5 feet	Seeding	
						Lab	rador Tea	Full	< 5 feet	Tall Shrub	
						Le	atherleaf	Full	< 5 feet	Tall Shrub	

Report 7 – Stands

Compartment: 19
Year of Entry: 2023

											Teal of Liftiy. 2023
Stand	Level 4 C	over Type	s Si	ize De	ensity	Acres	Stand Age I	BA Range	Managed	Site	General Comments
93	4311 - Pin	e, Aspen N	⁄lix Sa	awtimb	er Well	6.0	65	111-140	N/A		Small stand but fairly well mixed. South ~1/2 more aspen dominant.
	Canopy Species	% Cove	r Size Class	DBH	l Age	Sub-Ca	nopy Species	Densit	y Avg. Height	Size	North 1/2 holds a higher component of RP in the canopy. WP poles (some logs) common throughout. West boundary has more spruce/fir
	Bigtooth Aspen	45	Log/Pole/XLog	12	65	White Pine		Mediu	m 10 - 20 feet	Sapling	creeping in from Stand 94. Scattered xlog/super-canopy RP present. A
	Quaking Aspen	3	Log/Pole	11		Red Pine		Mediu	m >20 feet	Sapling	few log sized red oak observed.
	Red Maple	5	Pole	7		Re	ed Maple	Mediu	m >20 feet	Sapling	
	Red Pine	20	Log/Pole/XLog	12		Blac	ck Spruce	Low	Variable	Sapling	
	White Pine	12	Pole/Log	9		Ва	ılsam Fir	Mediu	m Variable	Sapling	
	Balsam Fir	5	Pole/Sap/Log	7							
	Red Oak	2	Log/Pole	12							
	Paper Birch	4	Pole/Log	8							
	Jack Pine	2	Log/Pole	10							
	Black Spruce	2	Pole	7							
94	6129 - Mixed Conif					73.8	89	111-140	N/A		'11: OI Stand Year Origin was 1932'21: Variable species dominance, drier/less wet areas were typically spruce dominant. These locations were
	Canopy Species		r Size Class	_	I Age		nopy Species		, , ,	Size	closer to adjacent upland stands. Interior and/or excessively wet locations
No	rthern White Cedar	35	Pole/Log/Sap	8	89		ed Maple	Low		Sapling	(that I saw) moved into heavier or complete NWC dominance w/scat
	Red Maple	5	Pole/Log	8		Ва	ılsam Fir	High	Variable	Sapling	spruce (smaller DBH's & heavier saps in some of those 'really' wet areas). Xlog/Legacy WP common on/near the drier areas heavier to
	Black Spruce	32	Pole/Log	8		Blac	ck Spruce	Low	10 - 20 feet	Sapling	spruce, xlog RP common there too. Bottleneck area along the Admin Rd
	Balsam Fir	4	Pole/Sapling	7		WI	hite Pine	Low	Variable	Sapling	had areas of 'true' upland, some JP present there
	Red Pine	3	XLog/Log/Pole	21		Н	lemlock	Trace	>20 feet	Sapling	
	Jack Pine	3	Pole/Log	9		Northerr	n White Cedar	Mediu	m >20 feet	Sapling	
	Paper Birch	3	Pole	7		Blad	ck Spruce	Low	< 5 feet	Seeding	
	Quaking Aspen	5	Log	15		Lab	rador Tea	Low	< 5 feet	Tall Shrul	
	Tamarack	3	Log/Pole	11		Ta	ag Alder	Mediu	m 5 - 10 feet	Tall Shrul	
	White Pine	4	XLog/Log/Pole	22				'	'	,	-
					-						

95	42290 - Natu	ral Mixed	Pine P	oletimb	er Wel	11.3	56	81-110	N/A	
	Canopy Species	% Cove	Size Class	DBH	Age	Sub-Cand	opy Species	Density	Avg. Height	Size
	Jack Pine	55	Pole/Log	9	56	Whit	e Pine	Medium	10 - 20 feet	Sapling
	White Pine	11	Pole/Log/XLog	9		Black	Spruce	Medium	10 - 20 feet	Sapling
	Red Pine	15	Log/XLog/Pole	15	52	Bals	am Fir	Medium	Variable	Sapling
	Black Spruce	4	Pole/Sapling	7		Red	Maple	Low	>20 feet	Sapling
	Red Maple	4	Pole/Sapling	6		Red	d Pine	Low	10 - 20 feet	Sapling
	Paper Birch	3	Log/Pole	10		Jack	k Pine	Low	10 - 20 feet	Sapling
	Quaking Aspen	4	Pole/Log	9		Common Low	bush Blueber	ry Medium	< 5 feet	Tall Shrub
	Bigtooth Aspen	4	Log/Pole	11		Bals	am Fir	Medium	< 5 feet	Seeding
						Whit	e Pine	Medium	< 5 feet	Seeding

^{&#}x27;11: OI Stand Year Origin was 1960

Hemlock

3

Log/Pole

12

^{&#}x27;21: Variable DBH sizes, somewhat dependent on location, could get away w/calling a 'log' sized stand. Stocking/can-closure varies as well, low-end of 75-100% seemed average. JP stems a mix of P/L and L/P, WP stems too. RP fairly reliable log/larger log and xlog. Favorable component of WP/Spruce advanced regen present. Some JP losing vigor. Aspen appears 'offsite', WP/RP looking healthy. Small area in north was lower stocked w/RP, looks like it may of been thinned in past (provide access to get into Stand 96?). Transitional/seasonally wet ground in northwest, west and northeast. BA swings= 150,60,110,80,40 (88avg).



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed 9	Site	General Comments
96	42290 - Natu	ıral Mixed F	Pine	Sapling	y Well	7.9	36	1-50	N/A		'11: OI Stand Year Origin was 1985
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	poles), mainly WP, RP and some spruce. Lowland tendencies/species in
	White Pine	38	Sapling/Pole	4	36	Ba	lsam Fir	Medium	< 5 feet	Seeding	east too. Things begin to 'open-up'/become patchy in western location stems larger there too (more poles). Looks like the harvest in '85 left a scattered 2nd age class of WP, those range L/P (MiFI wouldn't allow S/P/L in above canopy list). As a whole, the stand should move into 'p
	Red Pine	20	Pole/Sapling	6		Blac	ck Spruce	Low	< 5 feet	Sapling	
C	Quaking Aspen	16	Sapling/Pole	4		Ta	ag Alder	Low	10 - 20 feet	Tall Shrub	
	Red Maple	5	Sapling	3							sized' before too long.
	Black Spruce	6	Sapling/Pole	4							
	Balsam Fir	5	Sapling/Pole	3							
	Jack Pine	7	Sapling/Pole	4							
	Black Cherry	3	Sapling	3							
97	42290 - Natu	ıral Mixed F	Pine F	Poletimb	er We	ell 20.1	36	51-80	N/A		'11: OI Stand Year Origin was 1985
	Canopy Species	% Cover	Size Class		Age	1	nopy Species	Density	Avg. Height	Size	spruce/BF. Aspen common throughout w/more prominence in east.
	Jack Pine	35	Pole/Sapling		36	Bla	ck Spruce	Low	< 5 feet	Seeding	Some lighter stocked areas ranging 50-75% closure. Stand as a whole
	Red Pine	20	Pole/Sap/Log	j 7		Ва	lsam Fir	Medium	< 5 feet	Seeding	fits into 75-100%. Scattered, likely 2nd age class of WP/RP logs (not ver many though). BA swings= 60,90,100 (83avg).
	White Pine	15	Pole/Sap/Log	j 7		Common Lo	owbush Blueber	ry Medium	< 5 feet	Tall Shrub	Thany though). BA Swings= 60,90,100 (65avg).
C	Quaking Aspen	10	Pole/Sapling			Bra	cken Fern	Medium	Unspecified	Non-Wood	
	Black Spruce	5	Sapling/Pole	4							
Е	Bigtooth Aspen	10	Pole/Sapling	6							
	Balsam Fir	3	Sapling	3							
	Red Maple	2	Sapling	3							
98	42220 - Nati	ural Jack P	ine F	Poletimb	er We	ell 16.2	36	51-80	N/A		'11: Stand Year Origin was 1985
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	1'21: JP primarily dominant, ranging in size from larger sap to smaller pole sizes. RP is sprinkled throughout except in some areas where it's
	Jack Pine	65	Pole/Sapling	6	36	l — — — — — — — — — — — — — — — — — — —	owbush Blueber	ry High	< 5 feet	Tall Shrub	dominant (mainly in SW). Some other conifer species and a bit of
	White Pine	3	Log/Pole/Sap	10				-			aspen/RM present. Imagery ('98's) suggests equipment entered the stan
	Red Pine	16	Pole/Sap/Log	9 6							from the north end (wondered how they got into this stand, surrounded b lowland). That area is now briefly low/wet/alder/spruce before moving
	Black Spruce	4	Sapling/Pole	4							onto high ground. Impressive/nice natural pine stand. BA swings=
	Balsam Fir	3	Sapling	3							70,50,110 (76avg)
	Red Maple	3	Sapling	3							
Е	Bigtooth Aspen	6	Pole/Sapling	5							
99		42221 - Natural Jack Pine, Mixed Deciduous		Sapling Medium		m 23.0	7 lı	mmature	N/A		Stand was classified as a J6 prior to harvest. Cut late summer/fall of '14 Regeneration assessed Feb '21, natural JP regen is looking good/filling
(Canopy Species	% Cover	Size Class	DBH	Age						in, though not fully stocked decided current regen is acceptable. JP volunteers present in larger patches of dominance, were generally at 3ft
	Jack Pine	62	Sapling	1	7						(+- a few inches) and could expand their extent further given more time.
Е	Bigtooth Aspen	25	Sapling	1							Aspen filling in other areas (and mixing w/the JP) but were suffering
	Quaking Aspen	6	Sapling	1							some browse damage. Snow present during survey (1.5ft) may of obscured additional JP saps/seeds. A few scattered residual RP/RO I
C	0 1										obscured additional IP sans/seeds. A few scattered residual RP/RO log-



Stand	Level 4 C	over Type	S	ize De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
100	4130	- Aspen	5	Sapling	y Well	22.6	7	Immature	N/A		McDonald '18: Stand was cut in late summer and fall of 2014. Aspen
	Canopy Species	% Cover	Size Class	DBH	l Age						coming back well but with some browse damage. JSP '21: Browse pressure still occurring, but regen is fairing well. Some
	Bigtooth Aspen	75	Sapling	1	7						JP volunteers seeding in. Some residual RO scattered around and appeared healthy.
	Red Maple	20	Sapling	1	7						
	Jack Pine	5	Sapling	1							
101	6129 - Mixed Conife	erous Lowla	and Forest Po	letimb	er Well	17.2	115	111-140	N/A		'11: OI Stand Year Origin was 1906'21: 'Toggles' between conifer specie dominance. Northern areas heavier to spruce w/RP, JP, some
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	xlog/Legacy WP mixing in. Begins to shift into NWC as you move south,
	Black Spruce	32	Pole/Sap/Log	8		Blad	ck Spruce	Medium	10 - 20 feet	Sapling	still mixed w/spruce though. Southern narrow 'tail' is a spruce/pine mix
No	rthern White Cedar	40	Pole/Log/Sap	7	115	Re	ed Maple	Low	5 - 10 feet	Sapling	along the edges, then NWC occupying the center 'vein' of the 'tail'.
	Red Pine	8	Log/XLog/Pole	14		Ва	alsam Fir	Medium	5 - 10 feet	Sapling	Northern areas are likely dry at certain times of the year. In general, perimeter of stand holds most of the pine species. BA swings=
	Balsam Fir	3	Pole/Sapling	5		Pa	per Birch	Medium	>20 feet	Sapling	120,130,100,160 (127avg).
	Paper Birch	3	Pole	8		Northerr	n White Cedar	Low	10 - 20 feet	Sapling	,
	Red Maple	3	Log/Pole	10		Lab	rador Tea	Medium	< 5 feet	Tall Shrub	
	Jack Pine	5	Pole/Log	8		Ta	ag Alder	High	5 - 10 feet	Tall Shrub	
				_							
	White Pine	4	XLog/Log	22							
	Tamarack	2	Pole/Log	8		04.0		54.00	A1/A		
102	Tamarack 42260 - Natural Pin Canopy Species	ne, Mixed D	Pole/Log Deciduous Po	8 oletimb	er Well		38 nopy Species		N/A Avg. Height	Size	'11: OI Stand Year Origin was 1983 '21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and
102	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen	ne, Mixed D Cover	Pole/Log Deciduous Poleciduous Pole/Sapling	8 DBH	38	Sub-Ca	nopy Species ed Pine	Density Medium	Avg. Height 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual'
102	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine	2 ne, Mixed E % Cover 28 25	Pole/Log Deciduous Pole/Sapling Pole/Sap/Log	DBH 5 5	l Age	Sub-Ca	nopy Species	Density	Avg. Height		'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more
102	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple	2 ne, Mixed E 28 25 3	Pole/Log Deciduous Pole/Sapling Pole/Sap/Log Sapling	8	38	Sub-Ca	nopy Species ed Pine	Density Medium	Avg. Height 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on
102	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine	2 ne, Mixed E % Cover 28 25 3 10	Pole/Log Deciduous Pole/Sap/Log Pole/Sap/Log Pole/Sap/Log Pole/Sap/Log	8	38	Sub-Ca	nopy Species ed Pine	Density Medium	Avg. Height 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but
102	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir	2 ne, Mixed E % Cover 28 25 3 10 3	Pole/Log Deciduous Pole/Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Sapling Sapling	8 DBH 5 5 5 4	38	Sub-Ca	nopy Species ed Pine	Density Medium	Avg. Height 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but isn't yet 'well stocked', even though canopy closure is generally low-end
102	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir Jack Pine	2 ne, Mixed E % Cover 28 25 3 10 3 28	Pole/Log Deciduous Pole/Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log	8 Detimb 5 5 3 5 4 5	38 58	Sub-Ca	nopy Species ed Pine	Density Medium	Avg. Height 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but
102	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir	2 ne, Mixed E % Cover 28 25 3 10 3	Pole/Log Deciduous Pole/Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Sapling Sapling	8 DBH 5 5 5 4	38	Sub-Ca	nopy Species ed Pine	Density Medium	Avg. Height 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but isn't yet 'well stocked', even though canopy closure is generally low-end of 75-100%. A bit more open/patchy in southern areas. Nice mix of pine
102	Tamarack 42260 - Natural Pir Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir Jack Pine Red Oak	2 ne, Mixed D	Pole/Log Deciduous Pole/Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sapling Log/Pole/XLog	8 Detimb 5 5 3 5 4 5	38 58 58	Sub-Ca	nopy Species ed Pine	Density Medium	Avg. Height 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but isn't yet 'well stocked', even though canopy closure is generally low-end of 75-100%. A bit more open/patchy in southern areas. Nice mix of pine species plus clumpy/clonal aspen. BA swings= 60,50,60,40,110 (64avg).
	Tamarack 42260 - Natural Pir Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir Jack Pine Red Oak	2 ne, Mixed E % Cover 28 25 3 10 3 28 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Pole/Log Deciduous Pole/Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sapling Log/Pole/XLog	8 DBH 5 5 3 5 4 5 14 Sapling	38 58 58	Sub-Ca R WI	ed Pine hite Pine	Medium Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but isn't yet 'well stocked', even though canopy closure is generally low-end of 75-100%. A bit more open/patchy in southern areas. Nice mix of pine species plus clumpy/clonal aspen. BA swings= 60,50,60,40,110 (64avg). End of the day, running late special Didn't see interior, did see from northern boundary (while in Std102) and from forest road. Regen sapling
	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir Jack Pine Red Oak 42290 - Natural	2 ne, Mixed E % Cover 28 25 3 10 3 28 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Pole/Log Deciduous Pole/Sap Class Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sapling Pole/Sapling Pole/Sapling	8 DBH 5 5 3 5 4 5 14 Sapling	38 58 58 83 9 Well 1 Age 27	Sub-Ca R WI	ed Pine hite Pine	Medium Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but isn't yet 'well stocked', even though canopy closure is generally low-end of 75-100%. A bit more open/patchy in southern areas. Nice mix of pine species plus clumpy/clonal aspen. BA swings= 60,50,60,40,110 (64avg). End of the day, running late special Didn't see interior, did see from northern boundary (while in Std102) and from forest road. Regen sapling layer observed was heavy to JP and RP with WP mixing in. MiFI won't allow correct representation of the second age class of scattered, then
	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir Jack Pine Red Oak 42290 - Natural Canopy Species	2 ne, Mixed E % Cover 28 25 3 10 3 28 3 ural Mixed F	Pole/Log Deciduous Pole/Sap Class Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Sapling Pole/Sapling Pole/Sapling Sapling Pole/Sapling Pole/Sapling Sapling Pole/Sapling Sapling Pole/Sapling Sapling Pole/Sapling Sapling Pole/Sapling Sapling Sapling Pole/Sapling Sapling Sapling Pole/Sapling Sapling Sapling Pole/Sapling Sapling Saplin	8	38 58 58 83 9 Well	Sub-Ca R WI	ed Pine hite Pine	Medium Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but isn't yet 'well stocked', even though canopy closure is generally low-end of 75-100%. A bit more open/patchy in southern areas. Nice mix of pine species plus clumpy/clonal aspen. BA swings= 60,50,60,40,110 (64avg). End of the day, running late special Didn't see interior, did see from northern boundary (while in Std102) and from forest road. Regen sapling layer observed was heavy to JP and RP with WP mixing in. MiFI won't allow correct representation of the second age class of scattered, then clumpy RP (L/P) and JP (mostly pole/some logs). Spruce regen likely
	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir Jack Pine Red Oak 42290 - Natu Canopy Species Jack Pine	2 ne, Mixed E % Cover 28 25 3 10 3 28 3 ural Mixed F % Cover 42	Pole/Log Deciduous Pole/Sap Class Pole/Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sapling Log/Pole/XLog Size Class Sapling	8 DBH 5 5 5 3 5 4 5 14 Sapling DBH 3	38 58 58 83 9 Well 1 Age 27	Sub-Ca R WI	ed Pine hite Pine	Medium Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but isn't yet 'well stocked', even though canopy closure is generally low-end of 75-100%. A bit more open/patchy in southern areas. Nice mix of pine species plus clumpy/clonal aspen. BA swings= 60,50,60,40,110 (64avg). End of the day, running late special Didn't see interior, did see from northern boundary (while in Std102) and from forest road. Regen sapling layer observed was heavy to JP and RP with WP mixing in. MiFI won't allow correct representation of the second age class of scattered, then clumpy RP (L/P) and JP (mostly pole/some logs). Spruce regen likely present, especially near interface with Stands 44/58. Some saps nearing
103	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir Jack Pine Red Oak 42290 - Natu Canopy Species Jack Pine Red Pine	2 ne, Mixed E % Cover 28 25 3 10 3 28 3 ural Mixed F % Cover 42 25	Pole/Log Deciduous Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sapling Log/Pole/XLog Size Class Sapling Sapling	8 DBH 5 5 5 4 5 14 Sapling DBH 3 3	38 58 58 83 9 Well 1 Age 27	Sub-Ca R WI	ed Pine hite Pine	Medium Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but isn't yet 'well stocked', even though canopy closure is generally low-end of 75-100%. A bit more open/patchy in southern areas. Nice mix of pine species plus clumpy/clonal aspen. BA swings= 60,50,60,40,110 (64avg). End of the day, running late special Didn't see interior, did see from northern boundary (while in Std102) and from forest road. Regen sapling layer observed was heavy to JP and RP with WP mixing in. MiFI won't allow correct representation of the second age class of scattered, then clumpy RP (L/P) and JP (mostly pole/some logs). Spruce regen likely
103	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir Jack Pine Red Oak 42290 - Natu Canopy Species Jack Pine Red Pine White Pine	2 ne, Mixed E % Cover 28 25 3 10 3 28 3 ural Mixed F % Cover 42 25 10	Pole/Log Deciduous Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sapling Pole/Sapling Pole/Sapling Sapling Log/Pole/XLog Size Class Sapling Sapling Sapling Sapling	8	38 58 58 83 9 Well 1 Age 27	Sub-Ca R WI	ed Pine hite Pine	Medium Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but isn't yet 'well stocked', even though canopy closure is generally low-end of 75-100%. A bit more open/patchy in southern areas. Nice mix of pine species plus clumpy/clonal aspen. BA swings= 60,50,60,40,110 (64avg). End of the day, running late special Didn't see interior, did see from northern boundary (while in Std102) and from forest road. Regen sapling layer observed was heavy to JP and RP with WP mixing in. MiFI won't allow correct representation of the second age class of scattered, then clumpy RP (L/P) and JP (mostly pole/some logs). Spruce regen likely present, especially near interface with Stands 44/58. Some saps nearing
103	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir Jack Pine Red Oak 42290 - Natu Canopy Species Jack Pine Red Pine White Pine Bigtooth Aspen	2 ne, Mixed E	Pole/Log Deciduous Pole/Sap/Log Size Class Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sapling Log/Pole/XLog Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling/Pole Sapling/Pole	8	38 58 58 83 9 Well 1 Age 27	Sub-Ca R WI	ed Pine hite Pine	Medium Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but isn't yet 'well stocked', even though canopy closure is generally low-end of 75-100%. A bit more open/patchy in southern areas. Nice mix of pine species plus clumpy/clonal aspen. BA swings= 60,50,60,40,110 (64avg). End of the day, running late special Didn't see interior, did see from northern boundary (while in Std102) and from forest road. Regen sapling layer observed was heavy to JP and RP with WP mixing in. MiFI won't allow correct representation of the second age class of scattered, then clumpy RP (L/P) and JP (mostly pole/some logs). Spruce regen likely present, especially near interface with Stands 44/58. Some saps nearing
103	Tamarack 42260 - Natural Pin Canopy Species Bigtooth Aspen Red Pine Red Maple White Pine Balsam Fir Jack Pine Red Oak 42290 - Natu Canopy Species Jack Pine Red Pine White Pine Bigtooth Aspen Red Maple	2 ne, Mixed E	Pole/Log Deciduous Pole/Size Class Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sap/Log Sapling Pole/Sapling Pole/Sapling Log/Pole/XLog Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling/Pole Sapling/Pole Sapling	8	38 58 58 83 9 Well 1 Age 27	Sub-Ca R WI	ed Pine hite Pine	Medium Low	Avg. Height 5 - 10 feet 5 - 10 feet	Sapling	'21: At least 2-age classes present, likely 3 (perhaps more). Previous harvest left RO (not many and scattered) and likely some merch and sapling sized pine species (mainly RP/WP). Some of those 'residual' merch and/or sapling pine stems from the harvest are now a few or more inches larger than the featured 'regen' layer from '83 harvest. Most of the '83 regen is running larger sap to smaller pole size depending on surrounding competition/available sunlight. Overall size is 'small pole' but isn't yet 'well stocked', even though canopy closure is generally low-end of 75-100%. A bit more open/patchy in southern areas. Nice mix of pine species plus clumpy/clonal aspen. BA swings= 60,50,60,40,110 (64avg). End of the day, running late special Didn't see interior, did see from northern boundary (while in Std102) and from forest road. Regen sapling layer observed was heavy to JP and RP with WP mixing in. MiFI won't allow correct representation of the second age class of scattered, then clumpy RP (L/P) and JP (mostly pole/some logs). Spruce regen likely present, especially near interface with Stands 44/58. Some saps nearing



Stand	Level 4 Cover Type	Size Density	Acres Stand Age I	BA Range	Managed	Site	General Comments
400	3302 - Low Density Conifer Trees	Nonstocked	2.9 l	Unspecified	No		Where conifer is established, generally along/near perimeter, it has a 'high' density. Interior clumps of conifer present too. Mature scotch pine windrow on east along PVT. Most scotch in this opening found in east, saps/some poles, 'high' where present. Jack pine present in clumps, sap/poles, 'high' where present. Black cherry scattered throughout, pole/one small log, 'medium' density. Invasive honeysuckle observed in south, 'low'. Lilac in northwest near PVT, 'low' density. One WP log near Tucker Rd.
404	310 - Herbaceous Openland	Nonstocked	1.0 l	Unspecified	No		Sandy, poor soils in and around this opening. Some scattered conifer/deciduous along perimeter. More or less a turn-around area for vehicles.
405	3102 - Grass	Nonstocked	0.3 U	Unspecified	No		Small opening with little/no seed/sapling establishment. Unofficial horse trail travels through this opening.
406	330 - Low-Density Trees	Nonstocked	1.4 l	Unspecified	No		Grassy island with low-density trees in the middle of the swamp. ORV's
			Sub-Canopy Species	s Density	Avg. Height	Size	are able to reach the island from east.
			Red Pine	Trace	>20 feet	Log	
			White Pine	Trace	>20 feet	Log	
			White Pine	Low	Variable	Sapling	
			Balsam Fir	Low	Variable	Sapling	
			Black Spruce	Low	Variable	Sapling	
			Balsam Fir	Trace	>20 feet	Pole	
			Black Spruce	Trace	>20 feet	Pole	
407	3302 - Low Density Conifer Trees	Nonstocked	2.7	Unspecified	No		Scattered/shrubby jack pine (mainly saps), pole/log WP/RP and BF/some spruce present. Relatively 'open/grassy' with conifer beginning to repopulate areas. Some black cherry observed. Provides a pleasant vista view of the lowland shrub corridor surrounding Milligan Creek and then across to Stand 52.
408	3102 - Grass	Nonstocked	0.7	Unspecified	No		More/less an intersection area of forest rds. Scattered saps and deciduous/conifer encroachment along the perimeter. Raspberry too.
409	6239 - Mixed Emergent Wetland	Nonstocked	5.4 l	Unspecified	No		Essentially a seasonal lowland/watercourse, mixed with lowland shrubs
			Sub-Canopy Species	s Density	Avg. Height	Size	and low-density mixed trees. Open water portion at the north-end. Old railroad grade cuts through the middle of the stand (runs N/S). Not to far
			Willow spp.	Medium	5 - 10 feet	Tall Shrub	north from the grade is an old beaver dam, which is responsible for the
			Tag Alder	Medium	5 - 10 feet	Tall Shrub	open-water area in far north. These two features are strongly influencing local hydrology. Between the old beaver dam and RR grade, it's a bit less
			Balsam Poplar	Medium	10 - 20 feet	Sapling	dense w/lowland shrubs and tree species ranging sap through log size.
			Jack Pine	Medium	10 - 20 feet	Sapling	Stand narrows south of the grade, more tree species line/encroach along
			Quaking Aspen	Low	>20 feet	Pole	perimeter (log WP/RP). Boot shaped, wider area in far south pick-up with more sap/some pole JP and is grassy/seasonally wet. Waterfowl using
			American Elm	Trace	>20 feet	Pole	open-water portion during my visit. Remaining areas were a bit wet but
			White Pine	Medium	Variable	Sapling	beginning to dry out. White pine and red pine listed above are present as
			Red Pine	Medium	>20 feet	Log	sapling through log/xlog sizes.
			Red Oak	Low	>20 feet	Pole	
			Bigtooth Aspen	Low	>20 feet	Log	