

Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72065
Entry Year 2026
Acreage: 2,755
County: Alcona

Management Area: High Sand Plains

Stand Examiner: Joan Charlebois

Legal Description:

T25N R08E Sections 15, 19, 20, 29, 30, 31, 32

Identified Planning Goals:

To maintain riparian and forest health, structural and species diversity, and overall productivity while providing for sustainable multiple uses. A large part of the compartment is also dedicated habitat for the Eastern massasauga rattlesnake (EMR).

Soil and topography:

The compartment's considerable lowland acreage occurs primarily on the somewhat poorly-drained mucky sand soils of the Tacoda-Wakeley complex. The uplands occur mainly on the somewhat excessivley drained Graycalm sand series, dissected by steep valleys. Permanent streams flow through most of those valleys.

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

Only the south edge of the compartment borders other state land. The west side is adjacent to U.S. Forest Service lands managed for Kirtland's warbler. The rest of the compartment adjoins private property, with two private in-holdings. Both year-round and seasonal residential use occurs on the adjacent private property. Section 31 is within the Wurtsmith FUDS boundary.

Unique Natural Features:

There is the potential for rare plants and animals to be associated with the large cedar swamp and stream corridors.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features have been recorded within the compartment.

Special Management Designations or Considerations:

Duval Creek is listed as a high priority trout stream. EMR management guidelines apply within the dedicated habitat.

Watershed and Fisheries Considerations:

The compartment is within the Pine River watershed and contains several tributaries, including Roy, Grey & Duval Creeks. While those tributaries are classified as warm transitional streams, Duval Creek is classified as a high priority trout stream and they are all considered important for the production of young trout.

Wildlife Habitat Considerations:

During severe winters, deer yard in the large cedar swamp and associated stream corridor cedar stands. The compartment's mix of upland oak and pine and lowland aspen and conifers provide habitat for a variety of game and nongame wildlife. There is a long history of beaver activity along the streams.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. An active sand/gravel pit exists in Sec 26. Potential for sand & gravel development within the compartment appears to be limited due to wetlands and distance to commercial markets for aggregate resources. There might be potential for some small borrow pits for internal department use. Some sparse Antrim Shale gas wells have been drilled in the region, but the compartment is well outside the main Antrim play, and the nearest oil & gas production, past or present, is two miles away. No recent well permits have been issued in the area, and there is no current leasing activity involving State-owned mineral rights. Potential for hydrocarbons from known producing formations beneath the compartment is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Direct county road access from the east is by way of Andrews, Goddard and Vandercook roads. Several U.S. Forest Service and seasonal county roads provide access from the west. There are some interior trail roads, but the steep

drainage valleys and lack of stream crossings limit access.

Survey Needs:

Missing survey corners were set in 2023 through a DNR-contracted survey project.

Recreational Facilities and Opportunities:

The Vandercook Road Snowmobile Trail Head in located in the northwest of section 19. Snowmobile trail #962 starts there and heads south through the compartment and the adjacent U.S. Forest Service land. Dispersed recreational opportunities include hunting, fishing, trapping, camping and wildlife viewing.

Fire Protection:

The wide cleared powerline corridor along the compartment's west edge acts as a fuelbreak for the adjacent Kirtland's warbler management area. The U.S.F.S. stream crossing in the NENE Section 24 is a potential water source. Steep sideslopes limit access to other streams within the compartment.

Additional Compartment Information:

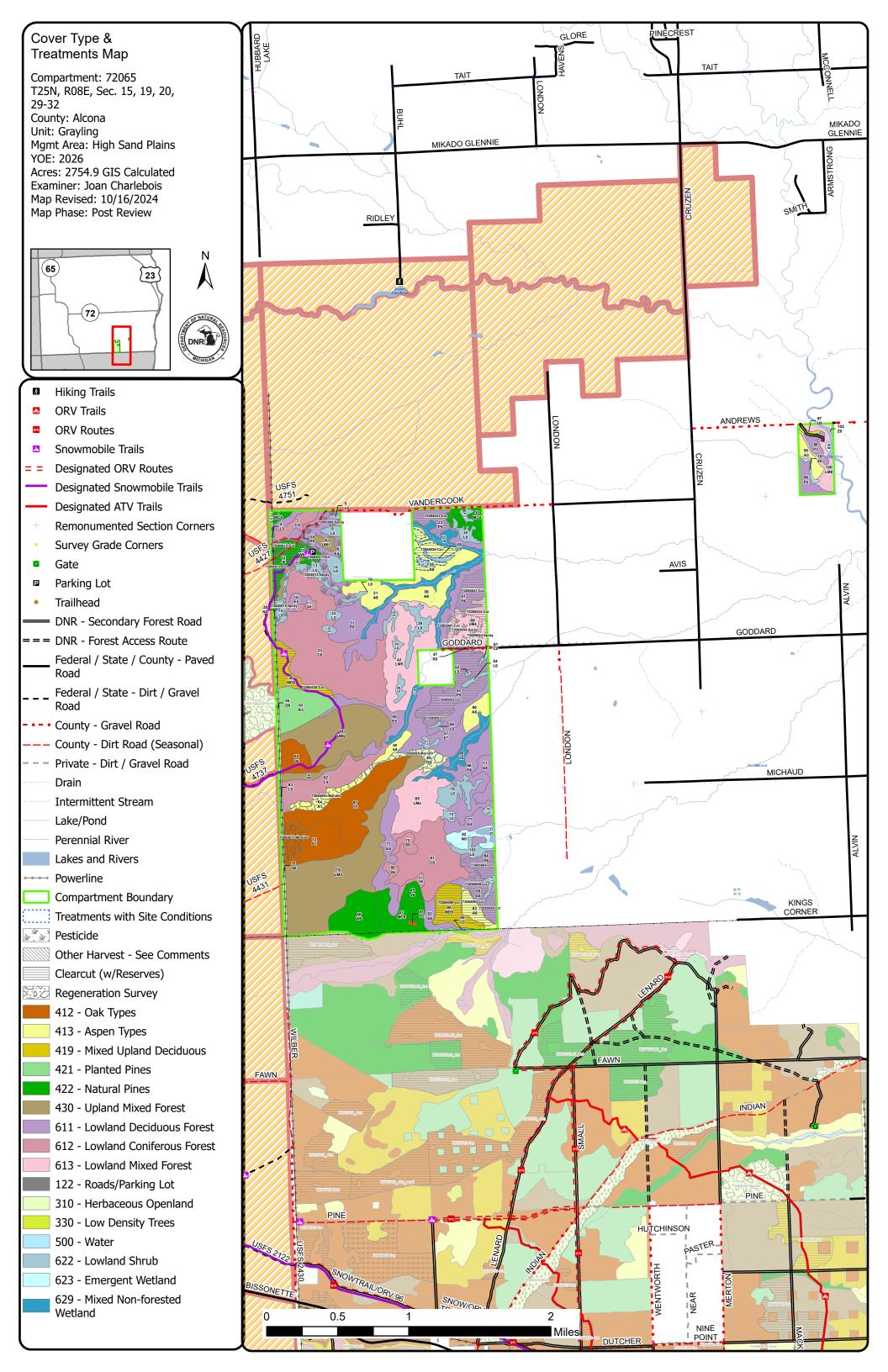
The following reports from the Inventory are attached:

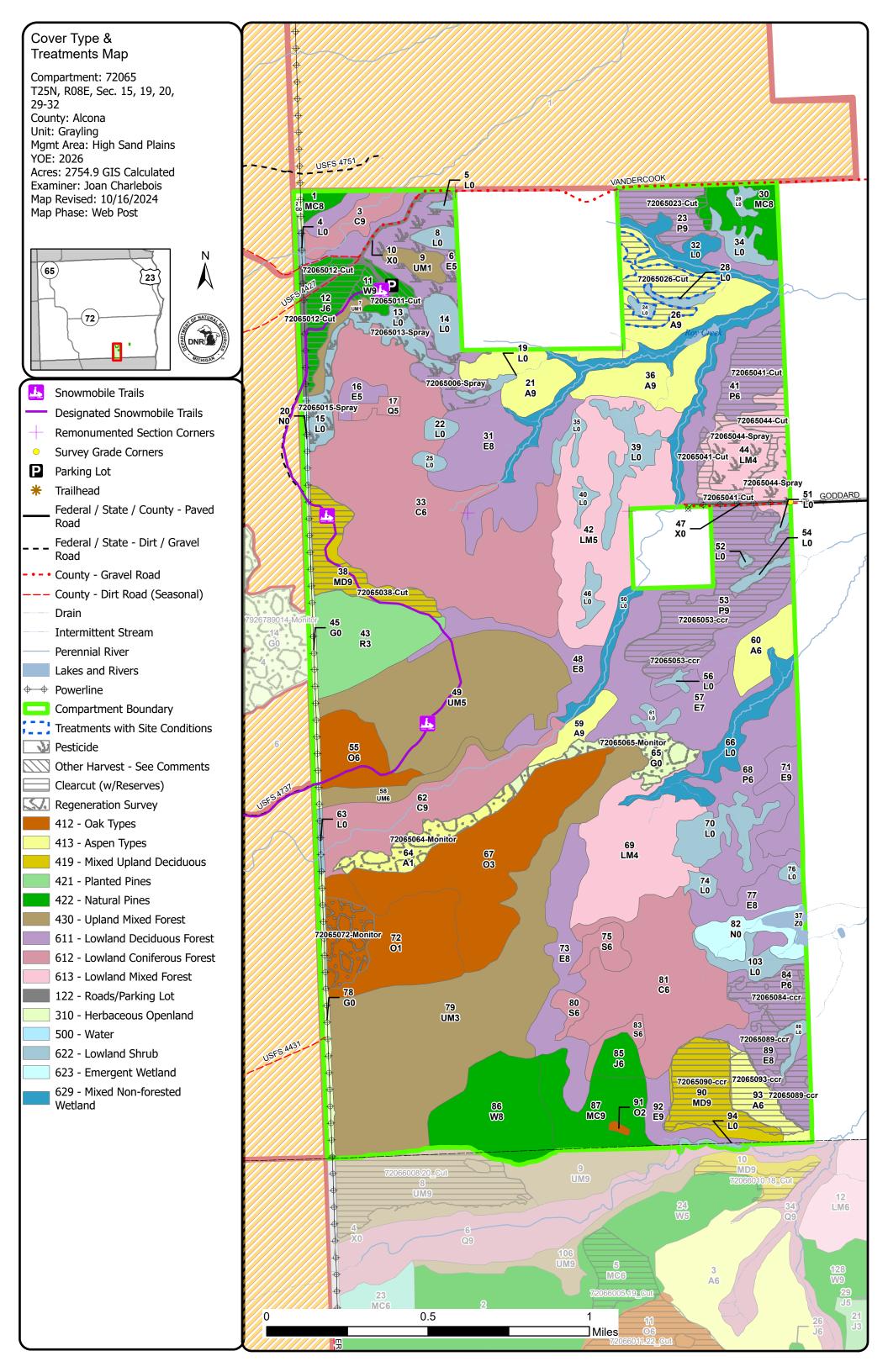
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

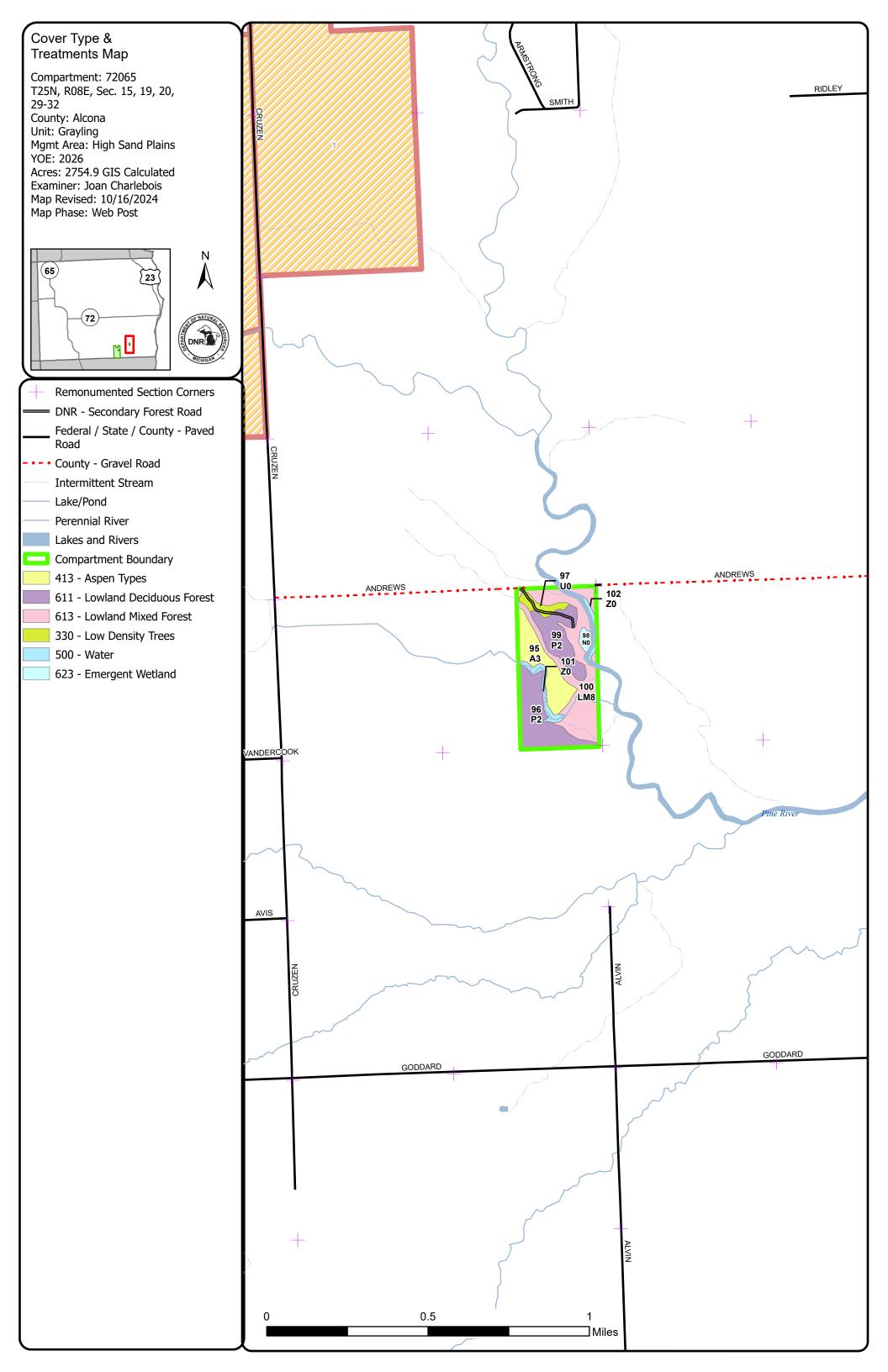
The following information is displayed, where pertinent, on the attached compartment maps:

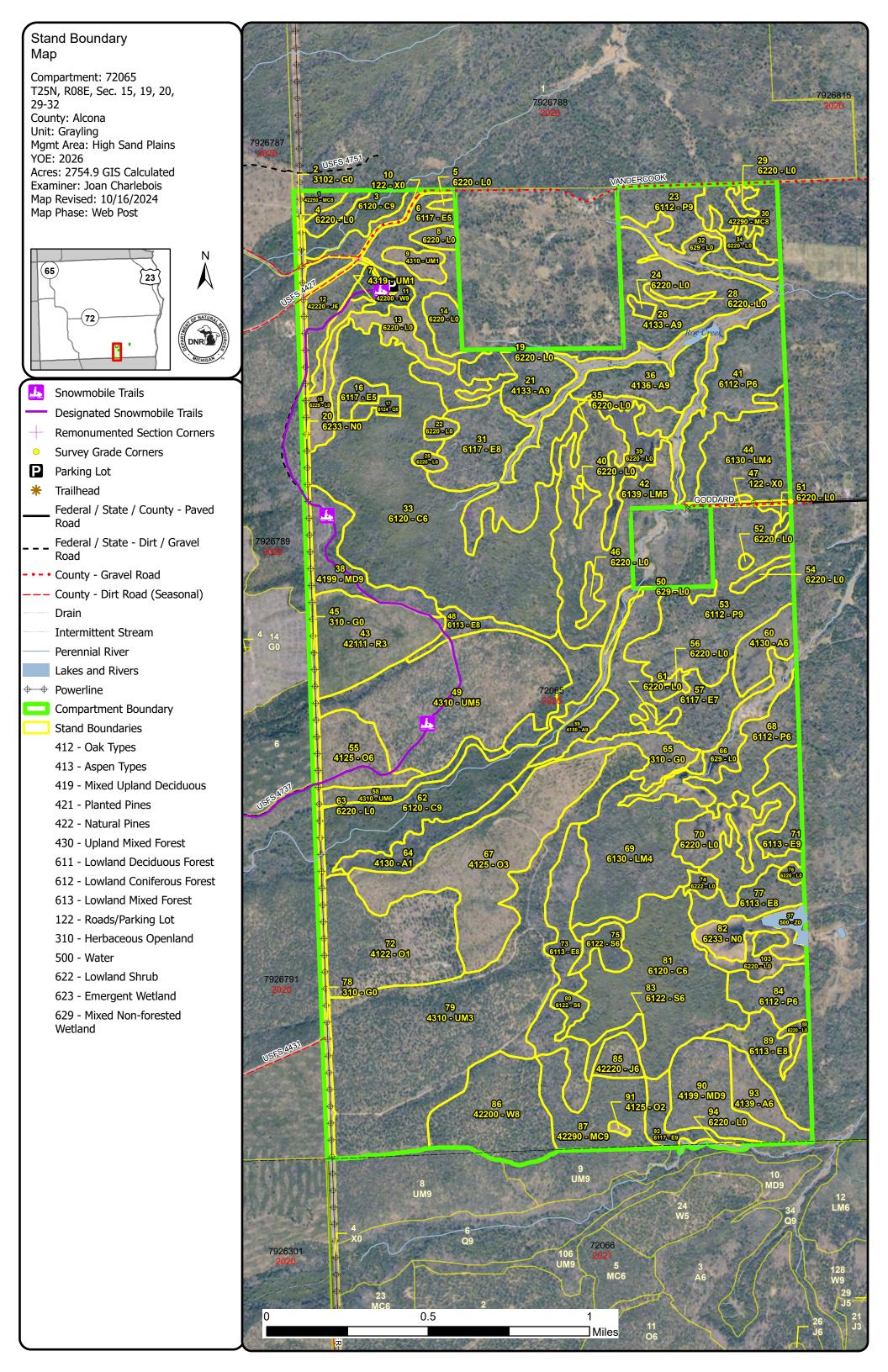
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries

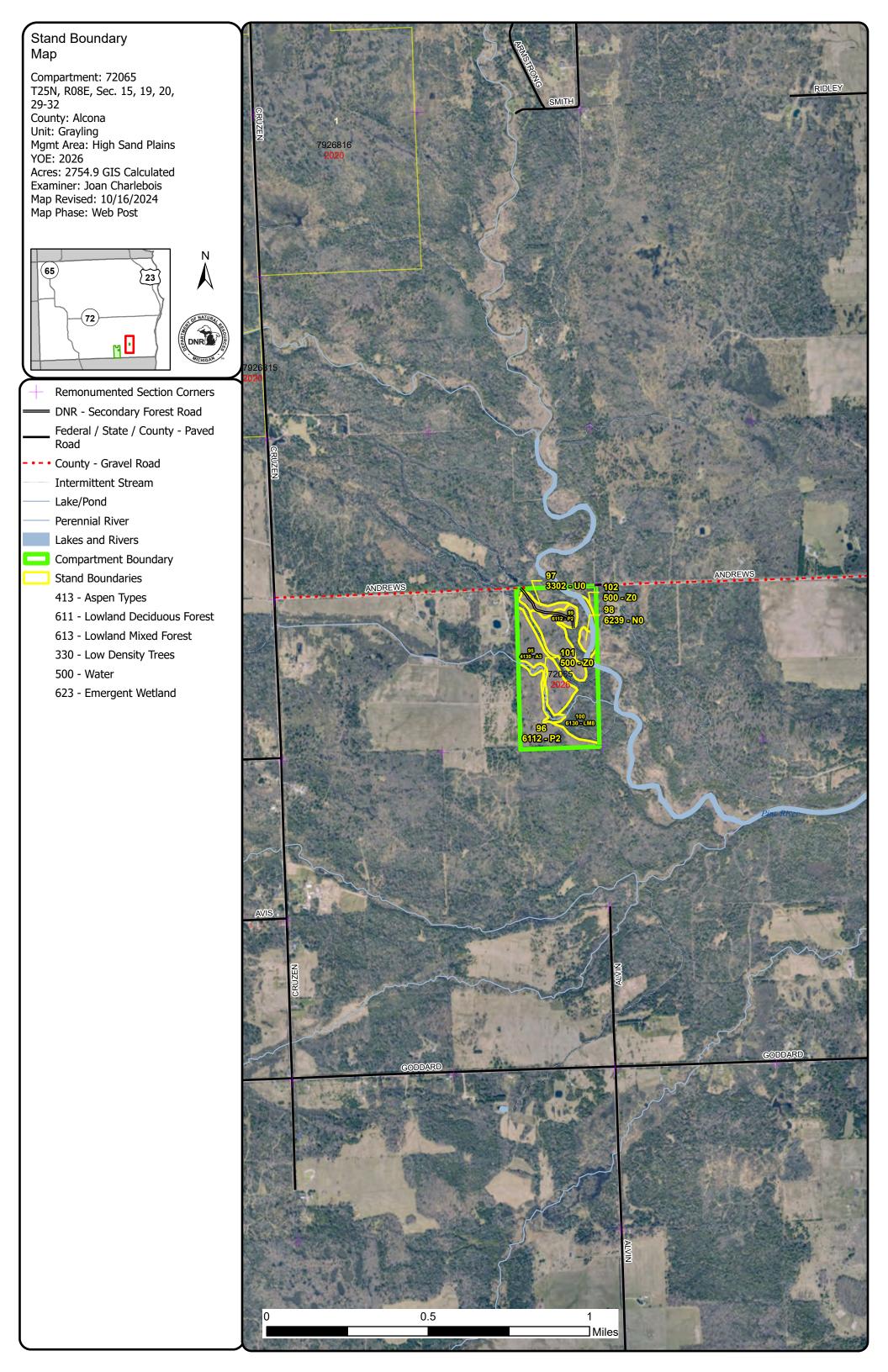
Details on the road access system

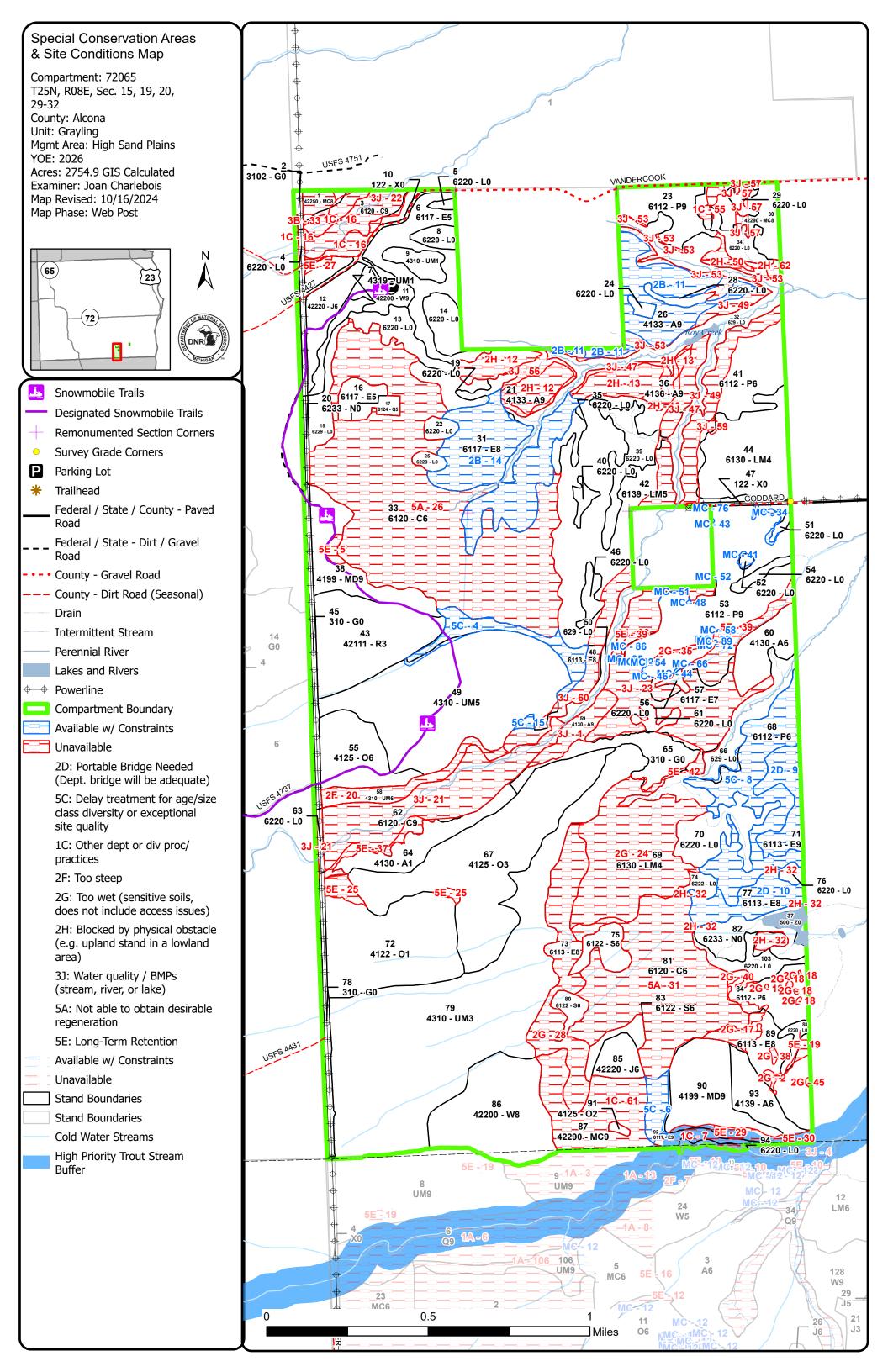


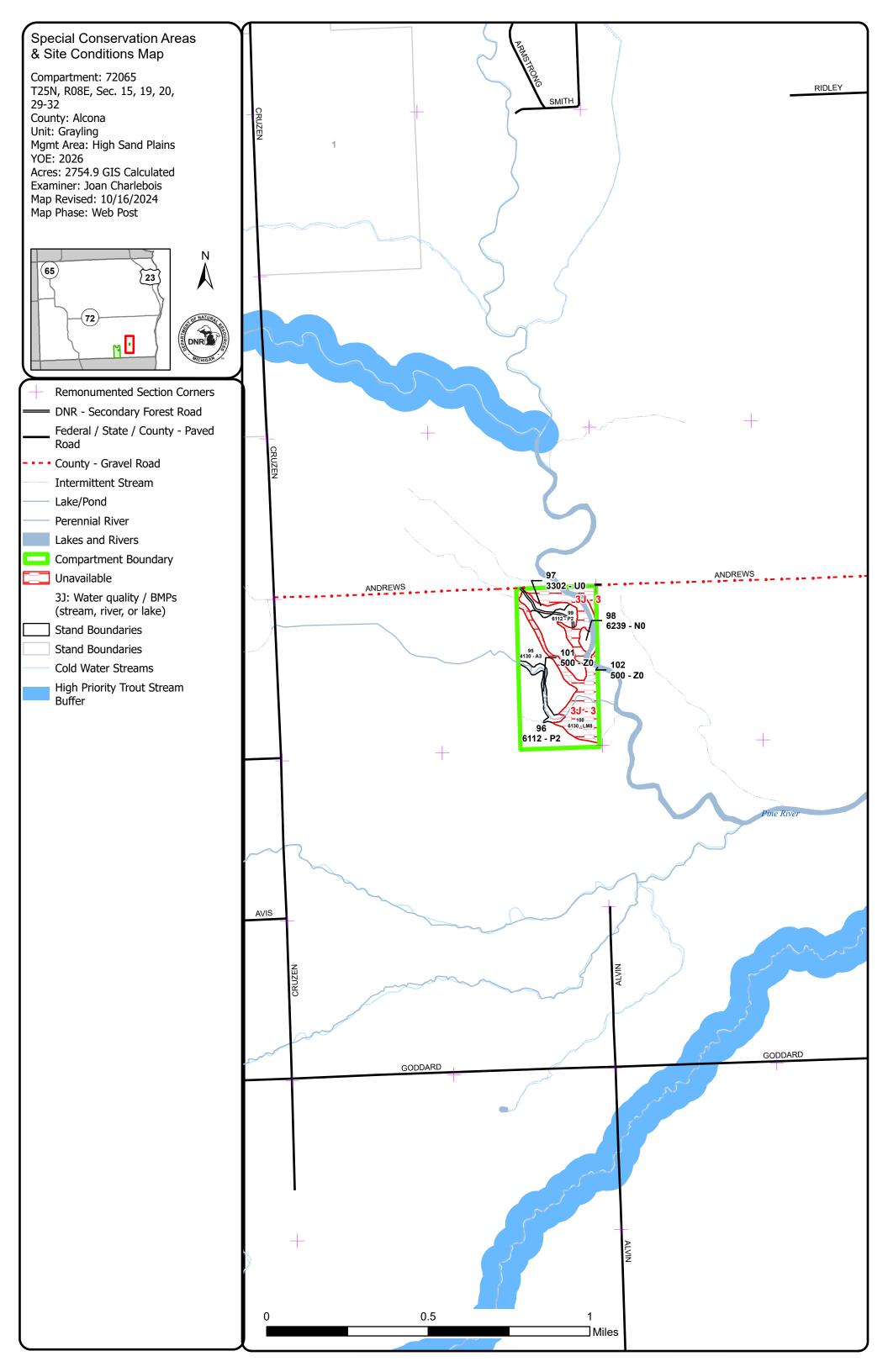












Grayling Mgt. Unit

Compartment 65 Year of Entry 2026



Joan Charlebois: Examiner

Age Class

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	* Age		3 / 2										"" "" " " " " " " " " " " " " " " " "		\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			S Jres	No. No.
Aspen	0	22	13	19	0	0	0	132	0	11	0	0	0	0	0	0	0	0	197
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	221	183	0	0	0	0	404
Herbaceous Openland	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Jack Pine	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	34
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	28	0	0	52	29	169	0	0	0	0	0	0	0	0	0	0	278
Lowland Conifers	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Deciduous	0	0	0	0	0	0	67	132	0	0	42	89	0	32	0	0	0	0	361
Lowland Mixed Forest	0	0	0	99	0	49	0	0	0	74	28	0	0	0	0	0	0	0	250
Lowland Shrub	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259
Lowland Spruce/Fir	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	22
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	34	0	41	0	0	0	0	75
Natural Mixed Pines	0	0	0	0	0	0	0	0	65	5	0	0	0	0	0	0	0	0	70
Oak	0	79	106	1	32	0	0	0	0	0	0	0	0	0	0	0	0	0	218
Red Pine	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Upland Mixed Forest	0	0	15	214	128	0	0	0	0	0	0	15	0	0	0	0	0	0	370
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	0	60	0	0	11	0	0	0	0	0	0	0	0	71
Total	349	101	216	333	165	101	190	455	65	101	70	138	221	256	0	0	0	0	2757



Report 2 – Treatment Summary

Grayling Mgt. Unit Year of Entry: 2026

Acres of Harvest

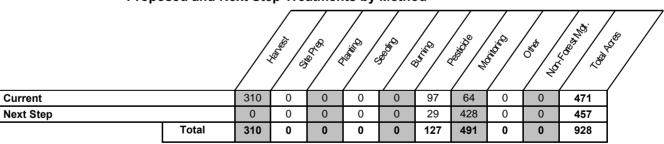
Compartment 65
Total Compartment Acres: 2,755

Commercial Harvest - 287 Harvests with Site Condition - 23 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method

		/ (**************************************		Sound L	O. L. C.	ROW O	\$ 1 St. 10 St. 1	F. A.	/ \$
Aspen		40	0	0	0	0	0	0	0	0	40	
Jack Pine		21	0	0	0	0	0	0	0	0	21	
Lowland Aspen/Balsam Poplar		139	0	0	0	0	0	0	0	0	139	
Lowland Deciduous		21	0	0	0	0	0	0	0	0	21	
Lowland Mixed Forest		18	0	0	0	0	0	0	0	0	18	
Mixed Upland Deciduous		63	0	0	0	0	0	0	0	0	63	
White Pine		0	0	0	0	0	0	0	0	9	9	
	Total	301	0	0	0	0	0	0	0	9	310	

Proposed and Next Step Treatments by Method



Grayling Mgt. Unit Report 3 -- Treatments Compartment: 65 s Year of Entry: 2026 t а **Treatment** Stand Size Stand BA **Treatment Treatment** Cover Type Acres Age Habitat n Method Objective Name CoverType Density Age Range Type Structure Cut d **Proposed Treatments:** 6 72065006-44.3 6117 - Lowland Poletimber 59 51-80 Pesticide Hand Application 611 - Lowland Two-Aged No Deciduous, Mixed Medium Deciduous Spray Coniferous Forest Prescription Control invasive plants such as phragmites, narrowleaf cattail and glossy buckthorn. Specs: Next Step Monitoring, Herbicide Use **Treatments: Acceptable** Regen: Other Comment: Site Condition: Proposed Start Date: 10/1 /2025 72065011-Cut 83 81-110 9.2 42200 - Natural Sawtimber Harvest Other - Specify 4220 - Natural Two-Aged No White Pine White Pine Well Prescription Remove the JP, spruce, fir, RM, BC & aspen concurrent with stand 12. Exclude the south poly that is heavy to xlog pine & NWC. The proposed exclusion has been removed from the Rx boundary. Add snowmobile trail and parking lot protection specs. Shortwood only in Specs: order to increase DWD for habitat. Follow EMR CCAA management guidance. Next Step **Treatments:** <u>Acceptable</u> Regen: Other Comment: Site Condition: Proposed Start Date: 10/1 /2025 12 72065012-Cut 20.5 42220 - Natural Poletimber 51 81-110 Harvest Clearcut with 4129 - Mixed Even-Aged No Jack Pine Well Retention Oak Prescription Final harvest that portion east of the powerline corridor. Leave all WP. Exclude for retention the steep hill on the north edge. Apply snowmobile trail protection specs. Shortwood only in order to increase DWD for habitat. Follow EMR CCAA management guidance. The Specs: proposed area-based exclusions have been removed from the draft Rx boundary. Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** Acceptable Moderate stocking in oak with pine & RM. Regen: Other Comment: Site Condition: Proposed Start Date: 10/1 /2025

Grayling Mgt. Unit Report 3 -- Treatments Compartment: 65 S Year of Entry: 2026 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment** Cover Type Age Habitat n Method Objective Name CoverType Density Age Range Type Structure Cut d 13 72065013-13.4 6220 - Alder/willow Nonstocked Unspec Pesticide Hand Application 613 - Lowland Even-Aged No Mixed Forest Spray ified Prescription Control invasive plants such as phragmites, narrowleaf cattail and glossy buckthorn. Specs: Monitoring, Herbicide Use Next Step Treatments: **Acceptable** Regen: Other Comment: Site Condition: Proposed Start Date: 10/1 /2025 72065015-6229 - Mixed Hand Application 622 - Lowland 15 Nonstocked Pesticide No 11.1 Unspec lowland shrub ified Spray Prescription Control invasive plants such as phragmites, narrowleaf cattail and glossy buckthorn. Specs: Next Step Monitorina, Herbicide Use **Treatments:** Acceptable Regen: Other Comment: Site Condition: Proposed Start Date: 10/1 /2025 23 72065023-Cut 22.2 6112 - Lowland Sawtimber 53 81-110 Harvest Clearcut with 6112 - Lowland Even-Aged No Well Retention Aspen Aspen Prescription Final harvest except legacy pine and standard area-based retention. Exclude the creek RMZ, sparse ground, and narrow SE peninsula cut off by low ground and an intermittent stream. Apply drumming log spec. No chipping due to low ground & EMR managed lands. Follow Specs: EMR CCAA management guidance. The treatment boundary has been edited to approximate the intended exclusions, only a subset of which will be designated as retention. Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** Acceptable Moderate stocking in aspen, lowland hardwoods and conifers, with non-stocked lowland shrub inclusions. Regen: Other Comment: Site Condition:

Proposed Start Date: 10/1 /2033

s t		Grayling	g Mgt. Unit		Repo	rt 3 1	Freatments		Compartmen Year of Entry	/	DNR DNR
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
26	72065026-C	ut 23.3	4133 - Aspen, Mixed Pine	Sawtimbe Well	er 63	111- 140	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
Pres Spec	swale EMR	es. Protect le CCAA guide	be obtained to accepacy pine. Excluded in	de the 300-featment bo	t RMZ a	along Roy has been	Creek and 100- edited to approx	-ft RMZs along the	tributaries. Apply	drumming log	g spec &
	Step Moni tments:	toring, Natura	al Regen (Re-Inver	ntory)							
Acce Rege	e <u>ptable</u> Aspe en:	n with RM, V	VP & fir.								
Othe Com	e <u>r</u> nment:										
<u>Site</u>	Condition: U	nknown Acc	ess								
Prop	osed Start Da	<u>te:</u> 10/1 /20	25								
38	72065038-C		1199 - Other Mixed Upland Deciduous	Sawtimbe Well	er 102	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
Pres Spec	cs: snow	mobile trail a	ept protect the lega and the swamp. Th Shortwood only in	ne treatmen	t bound	lary has b	een edited to ap	proximate that pro	posed exclusion.		
	: Step Moni utments:	toring, Natur	al Regen (Re-Inver	ntory)							
Acce Rege		derately stoo	cked mix of aspen,	maple, oak	and co	nifers.					
Othe Com	<u>er</u> nment:										
Site	Condition:										
Prop	osed Start Da	<u>te:</u> 10/1 /20	25								
41	72065041-C	ut 29.4	6112 - Lowland Aspen	Poletimbe Well	er 48	111- 140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
Pres Spec			ave all WP. Exclud					•	•	nage. Apply d	rumming

<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Pesticide, Hand Application; Monitoring, Herbicide Use <u>Treatments:</u>

Acceptable Moderate stocking in aspen, fir & WP. Lowland shrub inclusions are expected and accepted. Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

Grayling Mgt. Unit Report 3 -- Treatments Compartment: 65 s Year of Entry: 2026 t а **Treatment** Stand Size Stand BA **Treatment Treatment** Cover Type Acres Age Habitat n Name CoverType Density Age Range Type Method Objective Structure Cut d 44 72065044-Cut 18.3 6130 - Fir, Aspen, Poletimber 48 1-50 Harvest Clearcut with 613 - Lowland Even-Aged No Maple Poor Retention Mixed Forest Prescription Harvest operable portions adjacent to stand 41 concurrent with that stand. The east peninsula of the harvest was designed for the purpose of allowing the existing road to be cleared for stand 41 harvest access. No chipping due to low ground & EMR managed lands. Follow EMR Specs: CCAA management guidance. Monitoring, Natural Regen (Re-Inventory) Next Step Treatments: Acceptable Moderate to poor stocking in fir, spruce, pine, aspen & lowland hardwoods. Regen: Other Comment: Site Condition: Proposed Start Date: 10/1 /2025 28.6 6130 - Fir, Aspen, Poletimber 1-50 Pesticide Hand Application 613 - Lowland No 44 72065044-48 Even-Aged Maple Poor Mixed Forest Spray Prescription Control the invasive glossy buckthorn within the stand. Specs: Next Step Monitoring, Herbicide Use Treatments: **Acceptable** Regen: <u>Other</u> Comment: Site Condition: Proposed Start Date: 10/1 /2025 72065064-22.3 4130 - Aspen Sapling Immatu Monitoring Natural Regen 4139 - Aspen, Even-Aged No Monitor Poor (Re-Inventory) Mixed Deciduous Prescription Check regen Specs: Next Step **Treatments:** Acceptable Moderate stocking in aspen, oak, RM & mixed conifers, with poorly-stocked inclusions acceptable for EMR habitat. Regen: Other Comment: Site Condition: Proposed Start Date: 10/1 /2033 65 72065065-20.2 310 - Herbaceous Nonstocked 0 Unspec Monitoring Natural Regen 4139 - Aspen, Even-Aged No Mixed Deciduous Monitor Openland ified (Re-Inventory) Prescription check regen Specs: Next Step **Treatments:** Acceptable Moderate stocking in aspen, oak, RM & mixed conifers, with poorly-stocked inclusions acceptable for EMR habitat. Regen: Other Comment: Site Condition: Proposed Start Date: 10/1 /2033

Grayling Mgt. Unit Report 3 -- Treatments Compartment: 65 s Year of Entry: 2026 t а **Treatment** Stand Size Stand BA **Treatment Treatment** Cover Type Acres Age Habitat n Method Name CoverType Density Age Range Type Objective Structure Cut d 72 72065072-21.2 4122 - Oak, Pine Sapling 1-50 Monitoring Natural Regen 4122 - Oak, Pine Even-Aged No Monitor Poor (Re-Inventory) Prescription check regen Specs: Next Step Treatments: Acceptable A moderately stocked mix of oak, WP, JP & RP. Regen: Other Given how light the deer browse has been and how reliably oak recruits in the area, this survey can be conducted at re-inventory. Comment:

Site Condition:

Proposed Start Date: 10/1 /2033

Approved Treatments:

72065053-ccr 70.6 6112 - Lowland Sawtimber 60 81-110 Harvest Clearcut with 6112 - Lowland Even-Aged No Aspen Well Retention Aspen Prescription Final harvest 2" DBH & up. Apply area-based retention: first priority is adequate RMZ protection, then consider retention along linear tag alder swales. Small amounts of individual leave-trees (ie: WP saw) may also be designated. Per Fisheries Division, a 300 ft buffer is Specs: recommended along Roy Creek. A 100 ft buffer was excluded along the trib to Grey Creek. The treatment boundary has been edited to approximate the intended RMZ exclusions. Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** <u>Acceptable</u> Includes a mix of aspen, lowland deciduous, conifer, and lowland shrub cover. Regen: The stand contains a mosaic of lowland and upland ground and is dissected with linear tag alder swales. Old next step comments: Natural Other regen survey. Acceptable regen includes a mix of aspen, lowland deciduous, conifer, and lowland shrub cover. Comment: Site Condition: Proposed Start Date: 10/1 /2022 16.5 6112 - Lowland Poletimber 60 111-Harvest Clearcut with 6112 - Lowland No 72065084-ccr Even-Aged Aspen Well 140 Retention Aspen Prescription Final harvest except leave cedar. Spec the minimum cutting diameter to remove enough of the conifer understory to ensure vigorous regeneration. Apply standard area-based retention. Small amounts of individual leave-trees (ie: oak saw) may be designated in addition to Specs: Next Step Monitoring, Natural Regen (Re-Inventory) **Treatments:** Acceptable Includes a mix of aspen, red maple, conifers and lowland shrubs. Regen: Other Old next step comments: Natural regen survey. Acceptable regen includes a mix of aspen, red maple, conifers and lowland shrubs. Comment: Site Condition: Proposed Start Date: 10/1 /2022

Grayling Mgt. Unit Report 3 -- Treatments Compartment: 65 s Year of Entry: 2026 t а **Treatment** Stand Stand BA **Treatment Treatment** Cover Type Acres Size Age Habitat n Objective Name CoverType Density Age Range Type Method Structure Cut Ч 89 72065089-ccr 20.8 6113 - Lowland Sawtimber 126 81-110 Harvest Clearcut with 6117 - Lowland Even-Aged No Maple Medium Retention Deciduous. Mixed Coniferous Prescription Final harvest except leave cedar & hemlock. Spec the minimum cutting diameter so that enough of the conifer understory is removed to facilitate operations and regeneration, but enough is retained to regulate the water table. Apply standard area-based retention, which may Specs: include individual leave-trees (ie: white pine saw) in addition to the hemlock & cedar. Sparse or majority-immature cover bordering the swamp conifer stands may be excluded (see Stage 1 stand comments). Monitoring, Natural Regen (Re-Inventory) Next Step Treatments: Acceptable Includes a mix of lowland deciduous, conifers and shrub cover. Regen: Other Old next step comments: Natural regen survey. Acceptable regen includes a mix of lowland deciduous, conifers and shrub cover. Comment: Site Condition: Proposed Start Date: 10/1 /2022 72065090-ccr 33.7 4199 - Other Mixed Sawtimber 127 81-110 Harvest Clearcut with 4121 - Oak. Even-Aged Nο Upland Deciduous Well Retention Aspen Prescription Final harvest 2" DBH & up except leave white pine & red pine. Apply standard area-based retention, which may include individual leave-Specs: trees (ie: oak saw). Leave an adequate RMZ along Duval Creek. Extend the north & west harvest boundary down into the adjacent lowland stands to incorporate the denser transition ground cover. Per Fisheries Division, a 300 ft buffer is recommended along Duval Creek. A 100 ft buffer was excluded along the trib to Duval Creek. The treatment boundary has been edited to approximate the intended RMZ exclusions. Next Step Monitoring, Natural Regen (Intermediate) Treatments: Acceptable Includes a mix of oak, aspen, red maple and conifers. If regen fails, conduct necessary site prep and supplemental plant red pine. Regen: Old next step comments: Natural regen survey. Acceptable regen includes a mix of oak, aspen, red maple and confiers. If regen fails, Other Comment: conduct necessary site prep and supplemental plant red pine. Site Condition: Proposed Start Date: 10/1 /2015 72065093-ccr 16.3 4139 - Aspen, Poletimber 60 111-Clearcut with 413 - Aspen Harvest Even-Aged Nο Mixed Deciduous Well 140 Retention Prescription Final harvest. Spec the minimum cutting diameter so that enough of the conifer understory is removed to facilitate operations and regeneration. Apply standard area-based retention, which may include individual leave-trees (ie: red pine, oak saw). Per Fisheries Division, Specs: a 300 ft buffer is recommended along Duval Creek. The treatment boundary has been edited to approximate the intended RMZ exclusions. Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** Acceptable Includes aspen, red maple, oak and mixed conifers. Regen:

Other Old next step comments: Natural regen survey. Acceptable regen includes aspen, red maple, oak and mixed conifers.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2015

Total Treatment 471 Acreage Proposed:

Grayling Mgt. Unit

Joan Charlebois: Examiner Year of Entry: 2026



Compartment: 65

Availa	ability for	Managemer	nt													
Total	Acres	Acres Avail	Acres	De	omina	nt Site	Con	ditions	S							
Acres	Available	With Condition	Not Available		2B	2D	5C	MC	1C	2F	2G	2H	3B	3J	5A	5E
197	71	40	86	Aspen	40				0		0	36		48		2
403	1	0	402	Cedar	0	0	0			0	0			72	324	6
43	42	0	0	Herbaceous Openland							0			0		
34	33	0	1	Jack Pine			0									1
3	3	0	0	Low-Density Trees												
278	169	57	52	Lowland Aspen/Balsam Poplar		0	55	2	0		5	4		41		1
5	5	0	0	Lowland Conifers												
361	81	132	148	Lowland Deciduous	68	39	25	0	18	0	52	3	1	70		4
249	129	0	121	Lowland Mixed Forest				0			73			47		1
259	254	2	3	Lowland Shrub	0	0	1	1	0		0			2		1
22	22	0	0	Lowland Spruce/Fir												
22	22	0	0	Marsh								0				
74	67	0	7	Mixed Upland Deciduous					4		0					4
70	18	0	52	Natural Mixed Pines			0		46				4	2		
218	213	0	6	Oak										0		6
54	54	0	0	Red Pine												
371	354	1	16	Upland Mixed Forest			1			15	0			1		
12	12	0	0	Urban												
10	10	0	0	Water												
71	71	0	0	White Pine												
2,755	1,628	233	894	Total Forested Acres	109	39	82	3	68	15	130	43	5	284	324	25
-	59%	8%	32%	Relative Percent												

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

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
(Comments:						

300 foot uncut strip along Roy Creek, left at Fisheries Division request to discourage beaver activity on a stream important for trout production. Standard RMZ width otherwise would have been 100 feet. Also retention for stand 59's harvest. The harvested portion of stand 59 was merged with stand 65.

Grayling Mgt. Unit

Joan Charlebois: Examiner



2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Saturated ground e	excluded from stand 89's harves	st bound	dary.			
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments: Floodplain and first	terrace of the Pine River and the	nree trik	outaries.			
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
		s with stand 43 (to be planted in cand 38 that has the same gree			a buffer out of this already	narrow stand. Consider tre	eating next YOE along
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Potential retention	for stand 38's proposed harvest	·-				
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Small portion of the prescribed.	e lowland stand outside of the D	uval Cr	reek RMZ. Consider treating	g denser transition ground	edges when adjacent upla	nd stands are
7	Unavailable	1C: Other dept or div proc/practices	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: 300 foot uncut strip small tributary.	along Duval Creek, left at Fish	eries D	ivision request to discourag	e beaver activity on a strea	m important for trout produ	uction. Also includes a

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8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	56	2D: Portable Bridge Needed (Dept. bridge will be adequate)	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
		nis stand in order to meet the M. y streams, beaver floodings and					ne time. This block of
9	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	18	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
		til the adjacent aspen stand 68 odings and private property. Tr				he same time. This bloc	k of stands is isolated by
10	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	20	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
		til the adjacent aspen stand 68 odings and private property. Tr				he same time. This bloc	k of stands is isolated by
11	Available	2B: Unknown if access through adjacent landowner(s) is possible	40	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Isolated by Roy Cre	eek, tributaries and private prop	erty.				
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	21	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Isolated by streams	s and lowland ground.					

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13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Isolated by Roy Cre	eek, tributaries and low ground.					
14	Available	2B: Unknown if access through adjacent landowner(s) is possible	68	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
	Comments: Isolated by Roy Cre	ek, tributaries, lowland stands	and pri	vate property. Will need to i	nstall a stream crossing or	obtain permission to cros	s private property.
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
		with stand 43 (to be planted in and 38 that has the same gree			a buffer out of this already n	arrow stand. Consider tr	eating next YOE along
16	Unavailable	1C: Other dept or div proc/practices	13	3J: Water quality / BMPs (stream, river, or lake)	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified
		within 300 feet of Vandercook h otherwise would have been 1			uest to discourage beaver a	activity on a stream impor	tant for trout production.
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Excluded from stan	d 84 & 89 harvest boundary du	ie to sa	turated ground, sparse cove	r, &/or immature cover.		

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18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	5E: Long-Term Retention	n Unspecified	Unspecified	Unspecified
	Comments: Small wetlands bou	ndary-excluded from stand 84's	s harve	st			
19	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Immature cover exc	cluded from stand 89's harvest	bounda	ary.			
20	Unavailable	2F: Too steep	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Steep south aspect	above Roy Creek swamp.					
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	58	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
	Comments: Cedar stand on Roy	/ Creek floodplain. The stream	meand	ders through the stand. He	eavy deer use in the winter o	f 2013/2014.	
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
	Comments: Cedar swamp with	a perennial stream meandering	throug	h it.			
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	74	2G: Too wet (sensitive soils, does not include access issues)	5F: Evaluated for Forest Health Considerations	2I: Survey needed	Unspecified
	Comments: Stand 57 was flagg- ground, and RMZ's	ed in 2015 query as being at hi (300' for Roy Creek, 100' for tr	gh risk b to Gr	for Spruce Budworm impa ey Creek). JC	ct. Salvage Rx not recommo	ended due to the marginal l	BF component, low

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24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	73	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
	Comments: Stand was flagged seeps.	in a 2015 query as being at higl	n risk fo	or Spruce Budworm impact.	Salvage Rx not recomme	ended due to the low groun	d dissected with mucky
25	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
26	Unavailable	5A: Not able to obtain desirable regeneration	221	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Past cedar harvests	s in this stand have converted t	he cove	er to spruce, fir, aspen, or lo	wland hardwoods (see sta	ands 16 & 17).	
27	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Proposed retention	for stand 12, excluding the stee	ep hillsi	de.			
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stand was prescrib areas throughout th	ed for 2016 YOE treatment. Ts	ale pre	p staff requested variance a	approval to drop treatmen	t due to significant loss of a	creage due to low/wet
29	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	1C: Other dept or div proc/practices	Unspecified	Unspecified
	Comments: Long term retention	n for stand 90.					
	300 foot uncut strip small tributary.	along Duval Creek, left at Fish	eries D	ivision request to discourag	e beaver activity on a stre	am important for trout prod	uction. Also includes a

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30	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	1C: Other dept or div proc/practices	Unspecified	Unspecified
		n for stand 93.300 foot uncut st Also includes a small tributary		ng Duval Creek, left at Fishe	ries Division request to dis	courage beaver activity or	n a stream important
31	Unavailable	5A: Not able to obtain desirable regeneration	104	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Past cedar harvests	in this stand have converted th	ne cove	er to spruce, fir, aspen, or lo	wland hardwoods (see stai	nds 75, 80, 83).	
32	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
33	Unavailable	3B: Threatened, endangered, and special concern species	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
34	Available	Minor Change in Acreage	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Tag alder swale						

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36	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	2G: Too wet (sensitive soils, does not include access issues)	5F: Evaluated for Forest Health Considerations	2I: Survey needed	Unspecified
	Comments: Stand 57 was flagg ground, and RMZ's	ed in 2015 query as being at hi (300' for Roy Creek, 100' for tr	gh risk b to G	for Spruce Budworm impac rey Creek). JC	ct. Salvage Rx not recom	mended due to the marginal	BF component, low
37	Unavailable	5E: Long-Term Retention	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Retention for stand	64's harvest that boundary-exc	luded	the Roy Creek RMZ and ad	ditional low ground.		
38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Saturated ground e	xcluded from stand 89's harves	t boun	ndary.			
39	Unavailable	5E: Long-Term Retention	3	2G: Too wet (sensitive soils, does not include access issues)	2I: Survey needed	Unspecified	Unspecified
	Comments: Retention for stand	53's harvest.					
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments: Excluded from stan harvest.	d 84 & 89 harvest boundary du	e to sa	aturated ground, sparse cov	er, &/or immature cover.	This portion also designated	retention for stand 84's
41	Available	Minor Change in Acreage	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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42	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Stand 65's boundar	ry-excluded RMZ for the adjacer	nt tribu	utary to Grey Creek.			
43	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
44	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Saturated ground e	excluded from stand 89's harvest	t boun	ndary.			
46	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
•	Comments:						
47	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 100-ft RMZs						
48	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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49	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	45	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 300 ft RMZ recomn	nended by Fisheries Division ald	ong Roy	Creek			
50	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Narrow bottleneck	crosses low ground to reach the	drier ri	dge along the creek.			
51	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
52	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
53	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 100-ft RMZ						
54	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
55	Unavailable	1C: Other dept or div proc/practices	3	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
	004 4:40:50 DM . D						TONELLOM

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56	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 100-ft RMZs						
57	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 100-ft RMZ						
58	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
59	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 100-ft RMZ						
60	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 300-ft RMZ along F	Roy Creek					
61	Unavailable	1C: Other dept or div proc/practices	43	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Hold pending relea	se of Natural Pine managemen	guideline	es.			

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62	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified							
	Comments: This far SE end of stand 23 is cut off by an intermittent stream and low ground. Available Minor Change in Acreage 0 Unspecified Unspecified Unspecified Unspecified													
66	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified							
(Comments:													
72	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified							
(Comments:													
76	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified							
(Comments:													
77	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified							
(Comments:													
85	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified							
(Comments:													
86	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified							
(Comments:													

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89	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Co	omments:						
		Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
92	Available	Willion Change in Acreage	U	Orispecified	Onopcomea	Orispedified	Orispedified
	omments:	Willor Change in Acreage		Onspecified	Onspeamed	Onspecifica	Onspecifica

Mgt. Unit

Compartment: #Type! Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Grayling Mgt. Unit Compartment: 65
Year of Entry 2026



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.

Conservati 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 conditions stocked trout populations and those of other coldwater fish spec 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	ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by						
SCA	Cold Water Stream	· · · · · · · · · · · · · · · · · ·							
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 communities are ecologically and socially significant in their effe as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well						



Stand	d Level 4 Co	over Type	S	ize De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments		
1	42250 -	Pine, Oak	Sav	vtimber	Medium	n 5.2	83	51-80	N/A		Feb 2014 field comments: Stand is on a hilltop and dry south aspect		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	s Density	Avg. Height	Size	down to the swamp. The hilltop has most of the overmature JP, with short, poor-quality NPO. The JP cover decreases and the oak, WP & increases on the hillside. RM picks up as the ground flattens out near		
	Red Maple	5	Pole/Sap/Log	7		Black/Red	d (Hybrid) Oa	ık Medium	Variable	Sapling			
	White Pine	5	Pole/Log	8		Wh	hite Pine	Low	Variable	Sapling	swamp. The understory has oak, WP, and to a lesser extent RP & JP		
	Jack Pine	55	Pole/Log	9	83						Ifilling in. The mature oak likely represents an older age class than the JP, and the WP/RP appears to have recruited much later than either of		
	Red Pine	5	Pole/Log	8							them. 2024 update: JP & NPO are dropping out of the canopy. Most of the SE on the flats was shifted to stand 6.		
Bla	ck/Red (Hybrid) Oak	30	Log/Pole	11									
2	3102	- Grass		Nonsto	cked	1.8		Unspecified	No		Cleared powerline corridor and a strip of state land on the corridor's west side. That strip (approx. a chain wide) on the off side of the corridor was cut, roller-chopped & burned by the USFS concurrent with their adjacent lands; NPO regen there is re-sprouting.		
3	6120 - Lov	vland Ceda			er Well	15.7	125	141-170	N/A		Feb 2014 field comments: Cedar swamp bordering Vandercook Creek. NWC health is good overall, but size & vigor decreases at the west end		
	Canopy Species	% Cover	Size Class	DBH	Age		nopy Species		Avg. Height	Size	near the powerline corridor. No visible NWC regen. Black spruce has		
	Paper Birch	2	Pole/Log	7			ck Spruce	Medium	Variable	Sapling	filled in densely and recruited to fill gaps in the cedar canopy. WP is a		
	Balsam Fir	2	Pole	6		Bal	ılsam Fir	Low	Variable	Sapling	minor canopy associate, along with lesser amounts of RM, PB & balsam fir. Balsam fir regen cover is locally high, but averages out to low.		
No	orthern White Cedar	65	Log/Pole	12	125						iii. Daisaiii iii legeli covel is locally flight, but averages out to low.		
	Red Maple	3	Pole/Log	8									
	White Pine	8	XLog/Log	20									
	Black Spruce	20	Pole/Sapling	5									
4	6220 - A	lder/willow		Nonsto	cked	1.3	l	Unspecified	No		Willow and tag alder within the cleared powerline corridor. Vandercook Creek crosses through.		
5	6220 - A	lder/willow		Nonsto	cked	1.4	-	Unspecified	No		Feb 2014 edge comments: Within an area of manual habitat cutting in 1965 (FTP G-41), spec's not noted. Tag alder, willow & ilex with increasing cover in large sapling E/Q.		

	Level 4 Co	over Type	Si	ze De	nsity	Acres \$	Stand Age B	A Range	Managed S	Site	General Comments
6	6117 - Lowland I Coni	Deciduous, iferous	, Mixed Pole	timbe	Mediur	m 60.4	59	51-80	N/A		Feb 2014 field comments: Lowland hardwoods stand on the gradient between the uplands, cedar swamps & flooded shrub wetlands. Mostly
(Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	RM, with WP, paper birch, and minor JP, QA, fir & spruce associates. Also trace amounts of NWC, tamarack, NPO, RP & BTA. The lowest
(Quaking Aspen	5	Pole	7		Red	Maple	Low	10 - 20 feet	Sapling	ground bordering L3-types has mostly sapling cover. Holes in the canon
	Balsam Fir	5	Pole	6		Bals	am Fir	Medium	Variable	Sapling	have locally high understory cover in ilex, tag alder, WP & BF. Two-third
	White Pine	15	Log/Pole/XLog	14	81	Whit	te Pine	Medium	Variable	Sapling	of the stand (that part SE of Vandercook Rd) was within the 1965 manual habitat cutting FTP G-41. While the spec's were not noted, they likely
	Jack Pine	3	Log/Pole	12		Michig	an Holly	Medium	5 - 10 feet	Tall Shrub	involved chainsaw felling some of the RM, PB & aspen. The partial
	Red Maple	47	Pole/Sap/Log	8	59	Tag	Alder	Low	5 - 10 feet	Tall Shrub	cutting specs applied across part of the stand created two broad age
	Paper Birch	10	Pole/Sapling	6	_			'		·	classes in the deciduous species. The RM 1st age is based on the 1969
Nort	thern White Cedar	5	Log	13							FTP record. The RM 2nd age was on the residual small saw. The previous inventory RM age of 98 years is likely representative of part of
	Black Spruce	10	Pole/Sapling	7							the saw class in untreated portions of the stand. Stand includes cedar
											the roads & bordering stand 1) and becomes increasingly sparse on the saturated ground. Phragmites was found scattered along the skid route
7	4319 - Mixed	Upland Fo	prest S	apling	ı Poor	6.3	12 l	mmature	N/A		the roads & bordering stand 1) and becomes increasingly sparse on the saturated ground. Phragmites was found scattered along the skid route that crosses through from stand 9 to stand 11. Merch stems were harvested in 2012 (#026-07). Split off from previous
	4319 - Mixed Canopy Species		orest S		Poor Age		12 li	mmature Density	N/A Avg. Height	Size	the roads & bordering stand 1) and becomes increasingly sparse on the saturated ground. Phragmites was found scattered along the skid route that crosses through from stand 9 to stand 11. Merch stems were harvested in 2012 (#026-07). Split off from previous YOE stand 15 at re-inventory; regen on this drier ground has crossed in
•						Sub-Can				Size Tall Shrub	the roads & bordering stand 1) and becomes increasingly sparse on the saturated ground. Phragmites was found scattered along the skid route that crosses through from stand 9 to stand 11. Merch stems were harvested in 2012 (#026-07). Split off from previous YOE stand 15 at re-inventory; regen on this drier ground has crossed in the Forested benchmark and passed to an upland mixed forest objective.
•	Canopy Species	% Cover	Size Class	DBH		Sub-Can	opy Species	Density	Avg. Height		the roads & bordering stand 1) and becomes increasingly sparse on the saturated ground. Phragmites was found scattered along the skid route that crosses through from stand 9 to stand 11. Merch stems were harvested in 2012 (#026-07). Split off from previous YOE stand 15 at re-inventory; regen on this drier ground has crossed into the Forested benchmark and passed to an upland mixed forest objective.
•	Canopy Species Black Cherry	% Cover	Size Class Pole	DB H		Sub-Cand Black Chok	opy Species Cherry	Density Medium	Avg. Height Variable	Tall Shrub	the roads & bordering stand 1) and becomes increasingly sparse on the saturated ground. Phragmites was found scattered along the skid route that crosses through from stand 9 to stand 11. Merch stems were harvested in 2012 (#026-07). Split off from previous YOE stand 15 at re-inventory; regen on this drier ground has crossed into the Forested benchmark and passed to an upland mixed forest objective.
•	Canopy Species Black Cherry White Pine	% Cover 2 20	Size Class Pole Sapling	DBH 8	I Age	Sub-Cane Black Chol Tag	opy Species Cherry keberry	Density Medium Medium	Avg. Height Variable < 5 feet	Tall Shrub	Merch stems were harvested in 2012 (#026-07). Split off from previous YOE stand 15 at re-inventory; regen on this drier ground has crossed int the Forested benchmark and passed to an upland mixed forest objective
•	Canopy Species Black Cherry White Pine Jack Pine	% Cover 2 20 20	Size Class Pole Sapling Sapling	DBH 8 1	I Age	Sub-Cane Black Chol Tag	opy Species Cherry Keberry	Medium Medium Trace	Avg. Height Variable < 5 feet 5 - 10 feet	Tall Shrub Tall Shrub Tall Shrub	the roads & bordering stand 1) and becomes increasingly sparse on the saturated ground. Phragmites was found scattered along the skid route that crosses through from stand 9 to stand 11. Merch stems were harvested in 2012 (#026-07). Split off from previous YOE stand 15 at re-inventory; regen on this drier ground has crossed into the Forested benchmark and passed to an upland mixed forest objective.
•	Canopy Species Black Cherry White Pine Jack Pine White Pine	% Cover 2 20 20 3	Size Class Pole Sapling Sapling Log	8 1 1 16	12	Sub-Cane Black Chol Tag	opy Species Cherry Keberry	Medium Medium Trace	Avg. Height Variable < 5 feet 5 - 10 feet	Tall Shrub Tall Shrub Tall Shrub	the roads & bordering stand 1) and becomes increasingly sparse on the saturated ground. Phragmites was found scattered along the skid route that crosses through from stand 9 to stand 11. Merch stems were harvested in 2012 (#026-07). Split off from previous YOE stand 15 at re-inventory; regen on this drier ground has crossed into the Forested benchmark and passed to an upland mixed forest objective.
•	Canopy Species Black Cherry White Pine Jack Pine White Pine Red Maple	% Cover 2 20 20 3 25	Pole Sapling Sapling Log Sapling	8 1 1 16 16 1	12	Sub-Cane Black Chol Tag	opy Species Cherry Keberry	Medium Medium Trace	Avg. Height Variable < 5 feet 5 - 10 feet	Tall Shrub Tall Shrub Tall Shrub	the roads & bordering stand 1) and becomes increasingly sparse on the saturated ground. Phragmites was found scattered along the skid route that crosses through from stand 9 to stand 11. Merch stems were harvested in 2012 (#026-07). Split off from previous YOE stand 15 at re-inventory; regen on this drier ground has crossed into the Forested benchmark and passed to an upland mixed forest objective.
N	Canopy Species Black Cherry White Pine Jack Pine White Pine Red Maple orthern Pin Oak	% Cover 2 20 20 3 25 15	Size Class Pole Sapling Sapling Log Sapling Sapling Sapling	8 1 1 16 1 1	12	Sub-Cane Black Chol Tag	opy Species Cherry Keberry	Medium Medium Trace	Avg. Height Variable < 5 feet 5 - 10 feet	Tall Shrub Tall Shrub Tall Shrub	the roads & bordering stand 1) and becomes increasingly sparse on the saturated ground. Phragmites was found scattered along the skid route that crosses through from stand 9 to stand 11. Merch stems were harvested in 2012 (#026-07). Split off from previous YOE stand 15 at re-inventory; regen on this drier ground has crossed in the Forested benchmark and passed to an upland mixed forest objective

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Stand	Level 4 Co	over Type	Si	ize De	nsity	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments
9	4310 - Pir	ne, Oak Mix	x S	apling	Poor	8.2	12	Immature	N/A		Merch stems were cut in 2012 (#026-07). Site is continuing to fill in with
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	a patchy, diverse mix of pine, oak, aspen, spruce & fir. Most of the now-pole residual was WP-RP. Passed at re-inventory with 587 TPA secure
	Bigtooth Aspen	10	Sapling	1	12	Та	ıg Alder	Trace	5 - 10 feet	Tall Shrub	regen & 660 TPA deciduous <6 ft tall that have good potential to recruit
	Quaking Aspen	5	Sapling	1		Blac	ck Cherry	Medium	5 - 10 feet	Tall Shrub	(deer browse currently very light). In addition, there was 293 TPA BC.
	Balsam Fir	5	Sapling	1		Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	The M.O. also accepted a shrub component. Ground is upland overall, with transition ground on the margins and a lowland swale through the
	Red Pine	5	Sapling/Pole	1		Ва	lsam Fir	Low	< 5 feet	Seeding	middle. Two small illegal food plots were created in the E1/2; looks like
	Jack Pine	20	Sapling	1	12	Cho	okeberry	Trace	< 5 feet	Tall Shrub	they were burned and then seeded with forage cover.
	White Pine	20	Sapling/Pole	2		Northe	ern Pin Oak	Trace	< 5 feet	Seeding	
	Red Maple	5	Sapling	1							-
	Black Spruce	5	Sapling/Pole	1							
ı	Northern Pin Oak	25	Sapling	1	12						
10	122 - Road	d/Parking L	ot N	Nonsto	cked	9.8	ι	Jnspecified	No		Vandercook Road, the snowmobile trailhead parking lot, and a portion of the powerline corridor with sandy two-tracks.
11	42200 - Natu	ıral White F	Pine Sa	wtimb	er Wel	l 10.7	83	81-110	N/A		Natural mixed pine stand stand wraps around the snowmobile trail
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	parking lot and access road. The stand is upland overall, with transition ground on all margins except against stand 12. Cover is majority WP,
No	rthern White Cedar	1	Log	13		Ва	lsam Fir	Low	Variable	Sapling	with JP, RM, RP & black spruce, and trace amounts of oak, black cherry,
	Red Maple	10	Pole/Log	8		Hazeln	ut (Beaked)	Low	5 - 10 feet	Tall Shrub	cedar & aspen. The JP is largely overmature. A few xlog WP rim the
	Black Spruce	6	Pole	8		Servicebe	rry (Juneberry) Trace	10 - 20 feet	Tall Shrub	south edge.
	Jack Pine	15	Log/Pole	10		Wh	nite Pine	Medium	Variable	Sapling	
	Black Cherry	1	Pole	7		Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	
	White Pine	60	Log/XLog/Pole	16	83						-
	Balsam Fir	2	Pole	7							
	Red Pine	5	Log/Pole/XLog	16	105						
12	42220 - Nat	ural Jack P	ine Pol	letimb	er Wel	1 23.7	51	81-110	N/A		Most of the stand was harvested in 1973 (#019-73), cutting JP two sticks+ and merch RM-O. Excluded from the harvest area were a narrow
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	strip of state land on the west side of the powerline corridor, a narrow
	Jack Pine	60	Pole/Log	8	51	Northe	ern Pin Oak	Medium	< 5 feet	Seeding	strip of mature oak & JP along the stand's SE edge, & the poly N of
	Red Maple	2	Pole/Sap/Log	7		Re	d Maple	Low	Variable	Sapling	Vandercook Rd. The stand's 1st age was set to the harvest but the
	Balsam Fir	1	Pole/Log	7		Northe	ern Pin Oak	Medium	Variable	Sapling	partial cutting specs left a 2nd age class of now overmature JP & oak that couldn't be reflected in the canopy data due to a MiFI limitation. RP was
	Bigtooth Aspen	2	Log/Pole	16		Wh	nite Pine	Low	Variable	Sapling	interplanted in the stand's NW. WP increases moving downhill to the
	Red Pine	10	Log/Pole	10	61						east. Well-developed NPO understory gives way to more RM in the
	White Pine	5	Log/Pole	14							south end. There are a few JP with Sirex woodwasp trap tree signs in the NE.
ı	Northern Pin Oak	20	Pole/Sap/Log	7							IVE.



Stand	Stand Level 4 Cover Type		Acres Stand Age	BA Range	Managed	Site	General Comments
13	6220 - Alder/willow	Nonstocked	13.4	Unspecified	6139 - Mixed Fores		Merch stems were harvested in 2012 (#026-07). Harvesting was suspended due to rutting and the rest of the unit on inoperable low
			Sub-Canopy Specie	s Density	Avg. Height	Size	ground was removed from the contract. The contract was extended 5x's to allow for harvest completion or at least rut rehab, but ground conditions
			White Pine	Low	< 5 feet	Sapling	did not improve enough to allow for either. Regen passed at re-inventory
			Willow spp.	Medium	5 - 10 feet	Tall Shrub	with 1408 TPA of secure regen & an additional 990 TPA that didn't meet
			Red Maple	Trace		Seeding	minimum height standards but are likely to recruit (current deer browse is very low). Recordable tree cover (>3 ft tall) hasn't reached 25% yet so
			Black Spruce	Low		Sapling	the stand still types out as lowland shrub. Ground gets drier in the SW
			Balsam Poplar	Trace	< 5 feet	Sapling	peninsula. A small illegal food plot was created down there; looks like it
			Quaking Aspen	Low	< 5 feet	Sapling	was burned, then seeded with forage cover. Phragmites was found scattered along the main skid route in the W1/2 and there is a dense,
			Tag Alder	Medium	5 - 10 feet	Tall Shrub	long-established patch on the center-S edge that extends into stand 33.
			Balsam Fir	Trace	< 5 feet	Sapling	
			Red Maple	Low	< 5 feet	Sapling	
			Paper Birch	Low	5 - 10 feet	Sapling	
14	6220 - Alder/willow	Nonstocked	11.2	Unspecified	No		Feb 2014 edge comments: Tag alder, willow and ilex with encroaching large sapling/small pole RM, PB & BF (as seen from the edge) and what appears on the aerial imagery to be small patches of E/Q interior.
15	6229 - Mixed lowland shrub	Nonstocked	11.1	Unspecified	No		Merch stems were harvested in 2012 (#026-07). A portion of the harvest
			Sub-Canopy Specie	s Density	Avg. Height	Size	unit was left incut due to inoperable ground; that narrow strip was included in the adjacent swamp stand. Tree cover is slowly filling in but
			Tag Alder	Medium	5 - 10 feet	Tall Shrub	the stand is dominated by lowland shrub cover. Phragmites was found
			Serviceberry (Juneberr	ry) Low		Tall Shrub	scattered along the main skid route.
			Northern Pin Oak	Trace		Seeding	
			Black Spruce	Trace		Sapling	
			Serviceberry (Juneberr	ry) Low		Tall Shrub	
			White Pine	Low		Sapling	
			Paper Birch	Trace		Pole	
			Serviceberry (Juneberr	ry) Low		Tall Shrub	
			Chokeberry	Trace		Tall Shrub	
			Michigan Holly	Low	5 - 10 feet	Tall Shrub	
			Balsam Fir	Low		Sapling	
			Serviceberry (Juneberr			Tall Shrub	
			Serviceberry (Juneberr	ry) Low		Tall Shrub	
			Red Maple	Trace		Pole	
			Serviceberry (Juneberr	v) Low		Tall Shrub	

Grayling Mgt. Unit



Stand	d Level 4 C	over Type	s	ize De	nsity	Acres	Stand Age	BA Range	Managed 9	Site	General Comments
16	6117 - Lowland Con	Deciduous, iferous	, Mixed Pole	etimbe	Medium	7.3	7.3 59 51-80		N/A		Feb 2014 field comments: This stand was part of a manual habitat cut in 1965 (FTP G-40). The cutting specs were not noted, but appear to have
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	involved felling RM, paper birch and aspen. The stand has small pole-large sapling cover in those species, along with a mixed conifer
	Quaking Aspen	20	Pole	7		Ва	ılsam Fir	Medium	Variable	Sapling	component (black spruce, balsam fir, WP & cedar). Stand age was set to
	Balsam Fir	10	Pole	6		Blac	ck Spruce	Low	Variable	Sapling	the cut, but there is a minority component of older stems that were
	Balsam Poplar	10	Pole	7		WI	hite Pine	Low	Variable	Sapling	residual from the cut.
	Red Maple	40	Pole/Sapling	6	59	Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	
	White Pine	3	Log/Pole/XLog	12		Mich	nigan Holly	Low	5 - 10 feet	Tall Shrub	
	Paper Birch	5	Pole	6							
No	orthern White Cedar	2	Log	13							
17	6124 - Lowla	and Spruce	-Fir Pole	etimbe	r Medium	4.7	34	51-80	N/A		Feb 2014 field comments: Small blocks of cedar were final harvested
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	between 1986-1990 (#024-86, #009-89 & #059-89). Regenerated to Q/P/E with no observed cedar regen. Balsam fir and black spruce regen
	Red Maple	2	Sapling	3		Ta	ag Alder	Low	10 - 20 feet	Tall Shrub	is heaviest in the west, giving way to more balsam poplar in the east.
	Paper Birch	3	Sapling/Pole	3		Wi	llow spp.	Low	5 - 10 feet	Tall Shrub	
	Balsam Fir	30	Sapling	3		Ва	lsam Fir	Medium	5 - 10 feet	Sapling	
	White Pine	3	Pole/Sapling	6				-	1	'	•
	Black Spruce	20	Pole/Sapling	5							
	Balsam Poplar	35	Pole/Sapling	6	34						
	Tamarack	7	Sapling/Pole	3							
19	6220 - A	.lder/willow	ı	Nonsto	ocked	3.2		Unspecified	No		Feb 2014 edge comments: Tag alder with RM, fir & WP filling in. Was part of a manual habitat cut in1965 (FTP G-41).
20	6233 - W	et Meadow	ı	Nonsto	ocked	2.5		Unspecified	No		Lowland stretch of cleared powerline corridor.
21	4133 - Aspe	en, Mixed P	rine Sa	awtimb	er Well	28.2	63	81-110	N/A		Merch aspen, RM & paper birch were cut across most of the stand
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	by1961 (#082-59A). The partial cutting spec's applied across parts of the stand resulted in two main age classes in the deciduous species. The
	Balsam Fir	10	Pole/Log/Sap	7		Mich	nigan Holly	Trace	5 - 10 feet	Tall Shrub	stand's first age was set to the cutting record, and the second age was
	Black Spruce	4	Pole/Log	8		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	
	Paper Birch	1	Log/Pole	11		WI	hite Pine	Low	Variable	Sapling	stands that were part of the same harvest. The stand is upland overall but there is low ground in the SE, on the stand margins, along the
	Bigtooth Aspen	35	Log/Pole	11	63	Ва	lsam Fir	High	Variable	Sapling	intermittent stream that crosses through, and the stand is dotted with
	Quaking Aspen	15	Pole/Log	9							vernal pools. Beaver had reduced the aspen on the stand's margins; the
	Red Maple	15	Log/XLog/Pole	12	85						canopy is more open there and heavier to WP, fir & spruce. BTA occupies the high ground. The QA has been dropping out of the canopy,
	White Pine	20	Log/Pole/XLog	14							with fir & WP filling in from below. Traces of NPO & RP occur with the aspen on the higher ground & there are traces of NWC on the lower ground.
22	6220 - A	.lder/willow	I	Nonsto	ocked	3.9		Unspecified	No		Feb 2014 edge comments: Tag alder & ilex with E/Q colonizing. Not enough cover in the large sapling RM, balsam fir, PB & tamarack to call Forested overall, but close.



Stand	and Level 4 Cover Type		Si	ze De	nsity	Acres Stand Age I	Managed 9	Site	General Comments		
23	6112 - Lov	vland Aspe	en Sa	wtimb	er Well	29.3 53	81-110	N/A		A manual habitat cut (FTP G-61) was carried out in 1971 across the	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	stand's W1/2, spec'd to drop RM, PB & A, except for RM & PB w/in 5 chains of the county road. Merch RM-A in the stand's SE were cut	
	Paper Birch	2	Log/Pole	11		Balsam Fir	Low	Variable	Sapling	commercially in 1970 (#048-68). The partial cutting specs resulted in two	
	Balsam Poplar	2	Pole	7		White Pine	Medium	Variable	Sapling	main age classes across the A-RM-PB: mid-50's regen from the cut and	
	Quaking Aspen	50	Log/Pole	10	53	Tag Alder	Low	10 - 20 feet	Tall Shrub	now overmature residual. The residual RM is heaviest within 5 chains of Vandercook Rd. The proportion in aspen increases south of that zone.	
	Jack Pine	3	Pole/Log	9	59	Michigan Holly	Low	5 - 10 feet	Tall Shrub	The ground is a lowland-upland mosaic with cradle knoll topo & flooded	
	Bigtooth Aspen	5	Log/Pole	12		Black Cherry	Low	Variable	Tall Shrub	tag alder/ilex swales. The overmature aspen component occupies marshy	
	Red Pine	2	XLog/Log/Pole	20						ground by stand 32's stream corridor and is breaking up. The few rows o JP that extend into this stand were part of stand 30's 1965 plantation.	
	White Pine	12	Pole/Log/XLog	9						There are traces of legacy RP and oak on the drier ground and traces of	
	Red Maple	20	Log/Pole/XLog	12	93					balsam poplar, tamarack & spruce on the lower ground. WP increases	
	Black Cherry	1	Pole	8						moving SE. An intermittent stream crosses the SE end.	
	Balsam Fir	3	Pole/Log	8							
24	6220 - A	lder/willow	١	Nonsto	cked	2.1	Jnspecified	No		Jan 2014 edge comments: Tag alder, willow, leatherleaf & ilex, with sparse E/Q to the west.	
25	6220 - A	lder/willow	١	Nonsto	cked	3.0 l	Jnspecified	No		Feb 2014 edge comments: Tag alder & ilex with E/Q colonizing. Not yet enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall.	
26	4133 - Aspe	n, Mixed F	ine Sa	wtimb	er Well	56.1 63	111-140	N/A		A manual habitat cut (FTP G-61) was carried out in 1971 across the stand's NW 7 acres, spec'd to drop RM, PB & A. Merch RM-A in the	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Stations NVV 7 acres, specia to drop Kivi, FB & A. Werch Kivi-A in the	
No	orthern White Cedar	1			9-				Size	stand's East 13 acres were cut commercially in 1970 (#048-68). The	
	Red Maple	'	Log	15		Black Cherry	Trace	Variable	Tall Shrub	partial cutting specs applied across parts of the stand resulted in 3 main	
		20	Log Log/Pole/XLog		88	Black Cherry Balsam Fir	Trace Medium	Variable Variable		partial cutting specs applied across parts of the stand resulted in 3 main age classes across the deciduous species: mid-50's regen from the cut,	
	Black Cherry	-		15					Tall Shrub	partial cutting specs applied across parts of the stand resulted in 3 main age classes across the deciduous species: mid-50's regen from the cut, residual aspen in its early 60's, and residual RM around 90 years old.	
	Black Cherry Paper Birch	20	Log/Pole/XLog	15 12		Balsam Fir	Medium	Variable	Tall Shrub Sapling	partial cutting specs applied across parts of the stand resulted in 3 main age classes across the deciduous species: mid-50's regen from the cut, residual aspen in its early 60's, and residual RM around 90 years old. Note that the QA, BTA & RM have components landing in each age class, so the single age assigned to each canopy record only represents	
		20	Log/Pole/XLog Pole	15 12 7		Balsam Fir White Pine	Medium Medium	Variable Variable	Tall Shrub Sapling Sapling	partial cutting specs applied across parts of the stand resulted in 3 main age classes across the deciduous species: mid-50's regen from the cut, residual aspen in its early 60's, and residual RM around 90 years old. Note that the QA, BTA & RM have components landing in each age class, so the single age assigned to each canopy record only represents part of that species. The ages assigned were based on: the cutting	
	Paper Birch	20	Log/Pole/XLog Pole Log/Pole	15 12 7 12	88	Balsam Fir White Pine Michigan Holly	Medium Medium Trace	Variable Variable 5 - 10 feet	Tall Shrub Sapling Sapling Tall Shrub	partial cutting specs applied across parts of the stand resulted in 3 main age classes across the deciduous species: mid-50's regen from the cut, residual aspen in its early 60's, and residual RM around 90 years old. Note that the QA, BTA & RM have components landing in each age class, so the single age assigned to each canopy record only represents part of that species. The ages assigned were based on: the cutting record for the QA, cored BTA outside of the two recorded treatment	
	Paper Birch Quaking Aspen	20 1 1 10	Log/Pole/XLog Pole Log/Pole Log/Pole	15 12 7 12 10	88	Balsam Fir White Pine Michigan Holly Witch Hazel	Medium Medium Trace Trace	Variable Variable 5 - 10 feet 5 - 10 feet	Tall Shrub Sapling Sapling Tall Shrub Tall Shrub	partial cutting specs applied across parts of the stand resulted in 3 main age classes across the deciduous species: mid-50's regen from the cut, residual aspen in its early 60's, and residual RM around 90 years old. Note that the QA, BTA & RM have components landing in each age class, so the single age assigned to each canopy record only represents part of that species. The ages assigned were based on: the cutting	
	Paper Birch Quaking Aspen Red Pine	20 1 1 1 10 2	Log/Pole/XLog Pole Log/Pole Log/Pole Log/Pole/XLog	15 12 7 12 10 14	88	Balsam Fir White Pine Michigan Holly Witch Hazel	Medium Medium Trace Trace	Variable Variable 5 - 10 feet 5 - 10 feet	Tall Shrub Sapling Sapling Tall Shrub Tall Shrub	partial cutting specs applied across parts of the stand resulted in 3 main age classes across the deciduous species: mid-50's regen from the cut, residual aspen in its early 60's, and residual RM around 90 years old. Note that the QA, BTA & RM have components landing in each age class, so the single age assigned to each canopy record only represents part of that species. The ages assigned were based on: the cutting record for the QA, cored BTA outside of the two recorded treatment areas, and older saw residual for the RM. Most of the WP is	
	Paper Birch Quaking Aspen Red Pine Balsam Fir	20 1 1 10 2 5 40	Log/Pole/XLog Pole Log/Pole Log/Pole Log/Pole/XLog Pole/Log	15 12 7 12 10 14 8	54	Balsam Fir White Pine Michigan Holly Witch Hazel	Medium Medium Trace Trace	Variable Variable 5 - 10 feet 5 - 10 feet	Tall Shrub Sapling Sapling Tall Shrub Tall Shrub	partial cutting specs applied across parts of the stand resulted in 3 main age classes across the deciduous species: mid-50's regen from the cut, residual aspen in its early 60's, and residual RM around 90 years old. Note that the QA, BTA & RM have components landing in each age class, so the single age assigned to each canopy record only represents part of that species. The ages assigned were based on: the cutting record for the QA, cored BTA outside of the two recorded treatment areas, and older saw residual for the RM. Most of the WP is concentrated on the stand's S & E edges by the creek floodplain where	
28	Paper Birch Quaking Aspen Red Pine Balsam Fir Bigtooth Aspen White Pine	20 1 1 10 2 5 40	Log/Pole/XLog Pole Log/Pole Log/Pole Log/Pole/XLog Pole/Log Log/Pole Log/Pole	15 12 7 12 10 14 8 11	54	Balsam Fir White Pine Michigan Holly Witch Hazel Tag Alder	Medium Medium Trace Trace	Variable Variable 5 - 10 feet 5 - 10 feet	Tall Shrub Sapling Sapling Tall Shrub Tall Shrub	partial cutting specs applied across parts of the stand resulted in 3 main age classes across the deciduous species: mid-50's regen from the cut, residual aspen in its early 60's, and residual RM around 90 years old. Note that the QA, BTA & RM have components landing in each age class, so the single age assigned to each canopy record only represents part of that species. The ages assigned were based on: the cutting record for the QA, cored BTA outside of the two recorded treatment areas, and older saw residual for the RM. Most of the WP is concentrated on the stand's S & E edges by the creek floodplain where	



Stand	Level 4 Co	ver Type	s	ize De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
30	42290 - Natu	ral Mixed	Pine Saw	timbei	Medium	21.6	71	51-80	N/A		Cultivated fields visible on the 1938 photos, tax reverted in 1939. WP had
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	been seeding in when most of the stand was trenched & planted to JP in 1965. The field became increasingly saturated after drain maintenance
	Balsam Poplar	1	Pole/Sapling	6		W	hite Pine	Medium	Variable	Sapling	ended. Ground gets mucky in the stand's S1/2 & adjacent to the L3
	Paper Birch	1	Pole	7		Bla	ck Cherry	Low	5 - 10 feet	Tall Shrub	stands. Increasing mortality in the planted JP has shifted the stand out of
	Tamarack	1	Log/Pole	10		Re	ed Maple	High	Variable	Sapling	the "planted" category. The lower ground has majority WP cover; elsewhere WP is mixed into the JP plantation. Heavy RM-WP underston
	Black Cherry	1	Pole	7		Ta	ag Alder	Medium	10 - 20 feet	Tall Shrub	makes the canopy appear fuller and is recruiting as the JP drops out.
	Jack Pine	45	Pole/Log	9	59						Open-grown form is common in the WP.
	Quaking Aspen	1	Log/Pole	12							
	White Pine	45	Log/Pole/XLog	15	71						
	Red Maple	5	Pole/Log	8							
31	6117 - Lowland D Conit	Deciduous ferous	, Mixed Saw		Medium	68.6	63	51-80	N/A		Feb 2014 field comments: Merch aspen, RM & PB were cut across most of the stand by 1961 (#082-59A). The stand is PArVCo overall, with drien and wetter inclusions, cut by drainage swales. The stand has pole/cull
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	saw RM with mixed conifer, aspen & PB associates. Species distribution
	Quaking Aspen	10	Pole	7	63		nigan Holly	Low	5 - 10 feet	Tall Shrub	& canopy closure vary widely with the ground conditions. The driest
	Paper Birch	5	Pole/Sap/Log	7		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	
	Bigtooth Aspen	10	Pole/Log	8	63	W	hite Pine	Medium	Variable	Sapling	majority intermediate ground has 50-75% canopy cover and a higher proportion in RM, WP, balsam fir, black spruce & PB. The lowest ground
	Balsam Fir	10	Pole/Sap/Log	6		Ва	alsam Fir	Medium	Variable	Sapling	adjacent to L-types and the cedar swamp tends to have sparser cover &
	Jack Pine	3	Log	12		Blac	ck Spruce	Low	Variable	Sapling	more lowland brush. JP & a trace of hybridized oak also occur within the
	Red Maple	40	Pole/Log/Sap	8	63						stand. The partial cutting spec's applied across parts of the stand resulted in two main age classes across the deciduous species. The
	White Pine	12	Log/Pole/XLog	14	84						stand's first age was set to the cutting record, but there is a significant
	Black Spruce	10	Pole/Log/Sap	8							portion of the stand that is older (second age was on the post-harvest
											residual RM saw). 2024 update: because a MiFI limitation prevents the RM 2nd age from being recorded separately, it was applied to the WP canopy record as a surrogate.
											Changed Balsam Fir Age to 84 for second age as placeholder.
32	629 - Mixed non	-forested v	wetland I	Nonsto	ocked	57.7	l	Jnspecified	No		January 2014 edge comments: Floodplain of Roy Creek & associated tribs. Terraced with beaver dams. Cover alternates between alder-willow, wet meadow and open water, depending on proximity to each dar and the level of dam maintenance. Cedar snags and stumps common. Cedar was salvaged in beaver floodings in 1981 & 1982 under several small negotiated sales. Scattered E/Q encroaching along margins. OFS



tand Level 4 Cover Type	S	ize De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments		
33	6120 - Lowla	and Ceda	ır Po	oletimb	er Well	220.6	114	141-170	N/A		Jan 2014 field comments: Cedar-dominated conifer swamp that had a
	Canopy Species %	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	series of small-scale treatments recorded within it: manual habitat cut patches in 1965 (FTPs G-40 & G-41), several small "deeryard"
	Black Spruce	10	Pole/Sapling	7		Ва	Isam Fir	Medium	Variable	Sapling	commercial cuttings in the 1950's, 60's & late1980's, & ~12 acres cut i
Nor	thern White Cedar	70	Pole/Log/Sap	8	114	Blac	ck Spruce	Low	< 5 feet	Sapling	2012 (#026-07, split off as stand 13). Operations on #026-07 were
	Tamarack	3	Pole/Sap/Log	7		Та	ag Alder	Medium	10 - 20 feet	Tall Shrub	suspended due to excessive rutting. The contract was extended 5x's allow for harvest completion or at least rehab of the ruts, but ground
	White Pine	2	XLog/Log	20						,	conditions did not improve enough to allow either. Sale was closed
	Paper Birch	3	Pole	6							incomplete in 2016. The harvests that were large enough to meet
	Red Maple	7	Log/Pole/Sap	10							minimum stand mapping rules & that resulted in covertype conversion were separated out as unique stands. Cuts that did not meet those
	Balsam Fir	5	Pole/Sapling	6							criteria remain as inclusions & tend to be occupied with balsam fir, bla
											health & vigor is best on that transition ground & poorest on the stand most saturated ground. Between those extremes, the typical cover is dense cedar poles with black spruce, balsam fir & scattered WP. The understory ranges from open to full balsam fir cover.
34	6220 - Alde	er/willow		Nonsto	cked	8.2		Unspecified	No		Jan 2014 edge comments: Part of a cultivated field on the 1938 phot tax reverted in1939. Trenched & planted to JP in 1965 but the plantir largely failed on this low ground. Tag alder & salix with scattered WP saw and small clumps of quaking aspen, balsam poplar & RM.
35	6220 - Alde	er/willow		Nonsto	cked	5.1		Unspecified	No		Feb 2014 edge comments: Willow and tag alder with some cattail. Balsam fir, paper birch and RM encroaching.
36	4136 - Aspen, M	Mixed Co	nifer Sa	awtimb	er Well	29.4	63	111-140	N/A		Merch aspen, RM & paper birch were cut across most of the stand by
	Canopy Species %	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	1961 (#082-59A). The stand is upland overall, but transitions to low ground all along its margins and bordering the intermittent streams the
	Balsam Fir	15	Pole/Log/Sap	7		Ва	Isam Fir	High	Variable	Sapling	cuts across. Beaver had reduced the aspen along the creeks; those
	Paper Birch	2	Log	12		Wh	nite Pine	Medium	Variable	Sapling	RMZs have more fir & WP. The partial cutting spec's applied across
	Bigtooth Aspen	13	Log/Pole	14	63	Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	parts of the stand resulted in two main age classes in the deciduous species. The stand's first age was set to the cutting record and the
(Quaking Aspen	45	Log/Pole	11	63	Blac	ck Cherry	Trace	Variable	Tall Shrub	second age was on the post-harvest residual RM (saw-sized now).
	White Pine	5	Log/XLog	15				1		1	Combined full fir-WP understory has been recruiting into the canopy
	Red Maple	20	Log/XLog/Pole	12	84						the QA drops out.
37	500 - W	Vater		Nonsto	cked	4.5		Unspecified	No		Beaver pond with fluctuating water levels.



Stand	d Level 4 Co	over Type	s	ize De	nsity	Acres	Stand Age I	BA Range	Managed S	Site	General Comments
38	4199 - Other Mixed	d Upland E	Deciduous Sa	awtimb	er Well	33.6	102	81-110	N/A		Stand is upland overall, with the highest elevation along the powerline corridor, then grades down onto intermediate ground by the cedar
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	swamp. Most of the BTA (overmature) and oak is concentrated on the
	White Oak	5	Log/Pole/XLog	14		Ва	alsam Fir	Medium	Variable	Sapling	higher ground west of the snowmobile trail. On the flats east of the
	Paper Birch	2	Pole/Log	8		Hazelı	nut (Beaked)	Trace	5 - 10 feet	Tall Shrub	snowmobile trail, canopy dominance shifts from oak to more RM & paper birch. Occasional legacy WP & RP. The oak & paper birch have been
	Bigtooth Aspen	20	Log/XLog	16		Wi	tch Hazel	Low	5 - 10 feet	Tall Shrub	dropping out of the canopy. The RM is starting to top-die. WP-fir
Bla	ck/Red (Hybrid) Oak	20	Log/Pole/XLog	14	106	W	hite Oak	Low	Variable	Sapling	understory increases to full cover moving toward the swamp. This stand
	Balsam Fir	3	Pole	7		W	hite Pine	Medium	Variable	Sapling	includes a narrow strip of forested state land on the west side of the
	Red Maple	45	Pole/Log	8	102						powerline corridor; cover in that strip was not factored into the stand data
	White Pine	5	Pole/Log/XLog	8							
39	6220 - A	lder/willow	,	Nonsto	cked	18.5	l	Jnspecified	No		Feb 2014 edge comments: Part of the stand was cut merch in 1997 (#026-96). Filled in with salix, tag alder, ilex, aronia and patches of cattail. Balsam fir & paper birch are colonizing the margins. A small stream drains out of that end; there is marsh and periodic ponding when beaver activity picks up.
40	6220 - A	lder/willow		Nonsto	cked	3.4	ι	Jnspecified	No		Feb 2014 edge comments: Willow and tag alder, with ilex & wild raisin. Balsam fir, tamarack, RM & paper birch saplings encroaching.
41	6112 - Lov	vland Aspe	en Po	oletimb	er Well	51.5	48	111-140	N/A		Merch stems were harvested across most of the stand in 1976 (#016-
	Canopy Species	% Cover	Size Class	DBH	Δαε	Sub-Ca	nopy Species	Density	Avg. Height	Size	75A), then some low-density residual was chainsaw felled in 1979 (FTP
	Balsam Fir	20	Pole	6	Age		alsam Fir	High	Variable	Sapling	W-178). A narrow buffer was left uncut along Roy Creek. Stand age was set to the commercial harvest. Regenerated to guaking aspen and
	Jack Pine	1	Pole	8			ag Alder	Low	5 - 10 feet	Tall Shrub	
	White Pine	4	Log/XLog/Pole				ck Cherry	Trace	Variable	Tall Shrub	NWC, tamarack). The heaviest fir canopy cover is within the Roy Creek
	Quaking Aspen	65	Pole/Log	9	48		hite Pine	Low	5 - 10 feet	Sapling	RMZ; moving interior, the fir is overtopped by the aspen so little is seen from above. Breakage & root-tip common in the fir. The ground is
	Balsam Poplar	2	Pole/Log/Sap	7		• • • • • • • • • • • • • • • • • • • •			0 .0.000	oupg	intermediate to low, with a dry ridge in the middle where the BTA is. A
	Red Maple	5	Pole/Sap/Log	6							square clearing in the stand's north-center wasn't big enough to delineate
	Bigtooth Aspen	3	Pole/Log	8							out as a separate non-forested stand. Traces of invasive glossy buckthorn where encountered in the SW end.
42	6139 - Mixed	Lowland F	orest Pole	etimber	Mediur	n 98.7	27	1-50	N/A		Feb 2014 field commetns: Aspen-fir cover was final harvested except for
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	oak in 1997 (#026-96) and regenerated to a wide mix of P/E/Q. Lowland overall, with shallow dry ridges. JP occurs on the driest ground flanking a
	Bigtooth Aspen	15	Sapling/Pole	3	27	Mich	nigan Holly	Medium	5 - 10 feet	Tall Shrub	skid route that laps the stand, along with a few acres in the SW. Most of
	Quaking Aspen	15	Sapling/Pole	4	27		ag Alder	Medium	5 - 10 feet	Tall Shrub	the aspen clones are scattered along the stand's east side; birch picks up
	Jack Pine	17	Pole/Sapling	5	27	Wi	llow spp.	Low	5 - 10 feet	Tall Shrub	there also. The more saturated interior has sparse fir, spruce & WP
	Northern Pin Oak	2	Pole/Sap/Log	7			ld Raisin	Trace	5 - 10 feet	Tall Shrub	cover. Roughly a chain-wide strip was left uncut along Roy Creek, with mature RM, NPO, RP, NWC, etc. Canopy closure drifts off either end of
	Red Maple	10	Sapling/Pole	2			ck Cherry	Trace	Variable		50-75%, typically where the ground is wettest and driest, respectively.
	White Pine	5	Sapling/Pole	2					<u> </u>		The stand is dissected with linear flooded L3 swales (see 1998 DOQs).
	Black Spruce	10	Sapling/Pole	4							2024 update: Cover has edged past the 30% pole benchmark to be called Pole overall, mostly due to open-grown conditions. Beaver are
	Tamarack		Sapling/Pole/Log								continuing to reduce the aspen around stand 39.
	Balsam Fir	15	Pole/Sapling	5							-
	Paper Birch	6	Sapling	3							
	Red Pine	2	Pole/Sap/Log	5							



											Year of Entry: 2026
Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
43	42111 - Planted Dec	d Red Pine, ciduous	Mixed	Sapling	Well	53.8	10	Immature	N/A		JP-O stand was final harvested in 2009 (#015-06). FTP C72-623 was submitted for planting JP. Variance approved in 2013 to change M.O. to
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	RP. Was roller-chopped & trenched in 2013 except for an island of oak regen in the middle. RP was planted in 2014. Yr 1 survey found 935 RP
	Red Pine	70	Sapling	2	10	Re	d Maple	Trace	< 5 feet	Seeding	& 1,455 O-C TPA. Was release sprayed in 2015. Yr 3 regen survey
	Jack Pine	10	Sapling	2		Blac	k Cherry	Trace	10 - 20 feet	Tall Shrub	
١	Northern Pin Oak	20	Sapling	1	9	Northe	rn Pin Oak	Low	< 5 feet	Seeding	2022 found it wasn't needed (good component of oak, but the site looks great). FTP is completed. 2024 field inventory found that the RP is
44	6130 - Fir,	Aspen. Ma	ole P	oletimb	er Poor	48.7	48	1-50	N/A		vigorous and largely making it past the most common competitor (oak). The JP is a stronger competitor against the RP but it is far less common, concentrated at the landing and main skid routes. Merch stems were cut across most of the stand north of Goddard Road in
	Canopy Species	. , ,	Size Class		Age		nopy Species		Avg. Height	Size	1976 (#016-75A), then low-density residual was chainsaw felled in 1979
	Jack Pine	4	Log/Pole	10	Age		therleaf	Trace	< 5 feet		(FTP W-178). Stand age set to the commercial harvest. The terrain is pock-marked with dozens of sub-acre lowland brush inclusions (see 1998)
	Paper Birch	3	Sapling/Pole	4			sam Fir	Medium	Variable	Sapling	DOQs). Wrapping around those wetland potholes is a mosaic of
	Black Spruce	5	Pole/Sapling	6			g Alder	Medium	5 - 10 feet	Tall Shrub	intermediate to low ground. A sketchy trail road runs up the stand's east
	Red Maple	30	Pole/Sapling	5	48		Buckthorn	Trace	10 - 20 feet		side on the drier ground. Most of the aspen is concentrated there, along with traces of oak & RP. Cover in balsam fir, WP, tamarack, PB & JP
N	Northern Pin Oak	1	Pole/Sapling	6			igan Holly	Medium	5 - 10 feet	Tall Shrub	increases on the lower ground. Marginal RM occurs throughout. The
	Quaking Aspen	10	Pole/Sapling	7	48	Wil	low spp.	Low	5 - 10 feet	Tall Shrub	wettest ground has dense lowland shrub cover with colonizing E/Q.
	Red Pine	1	Log/Pole	11		Wil	d Raisin	Trace	5 - 10 feet	Tall Shrub	Invasive glossy buckthorn was found scattered mainly in the south end of the stand. Canopy closure is >50% in places, but the many non-forested
	Bigtooth Aspen	6	Pole	7	48	Wh	ite Pine	Low	Variable	Sapling	wetland inclusions drag the stand average down into the 25-50%
	White Pine	10	Log/XLog/Pole	16		Mour	ntain Holly	Medium	5 - 10 feet	Tall Shrub	category.
	Balsam Fir	25	Pole/Sapling	5	48						
	Tamarack	5	Pole/Sap/Log	5							
45	310 - Herbac	ceous Open	lland	Nonsto	cked	10.6	L	Jnspecified	No		Cleared powerline corridor.
46	6220 - A	Alder/willow		Nonsto	cked	5.3	L	Jnspecified	No		Jan 2014 edge comments: Tag alder with ilex, some aronia. Being colonized by paper birch, balsam fir, WP & RM saplings.

Unspecified

No

122 - Road/Parking Lot

Nonstocked

2.4

47

ground beneath powerline.

Cleared corridor of Goddard Road and overhead powerline. Lowland



Stand Level 4 Cover Type	S	Size De	ensity	Acres Stand Age BA Range			Managed \$	Site	General Comments	
48 6113 - Lo	owland Map	le Sav	vtimbe	r Medium	29.3	102	81-110	N/A		Feb 2014 field comments: RM-dominated stand on the narrow band of
Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Can	nopy Species	Density	Avg. Height	Size	transition ground between the uplands and the cedar swamp. Associated include paper birch, WP, JP, fir, and small amounts of oak, BTA, RP &
White Pine	10	Log/Pole/XLog	14		Tag	g Alder	Low	5 - 10 feet	Tall Shrub	cedar. The understory is heavy to balsam fir, with tag alder & ilex near
Red Maple	60	Log/Pole	11	102	Whi	ite Pine	Medium	Variable	Sapling	the cedar swamp edge. 2024 update: Top mortality starting in the RM,
Jack Pine	5	Log	11		Michi	gan Holly	Low	5 - 10 feet	Tall Shrub	JP has been dropping out.
Paper Birch	5	Log/Pole	12		Bals	sam Fir	High	Variable	Sapling	
Bigtooth Aspen	5	Log	14						,	-
Red Pine	2	Log/XLog	14							
Northern Pin Oak	5	Log	15							
Northern White Cedar	3	Log/Pole	10							
Balsam Fir	5	Pole	6							
70	ine, Oak Mi			r Medium		36	1-50	N/A		Feb 2014 field comments: JP-O stand was final harvested in 1988 (#00 g 87). Regen from the cut is mainly JP and oak. Open-grown WP & RP
Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Can	nopy Species	Density	Avg. Height	Size	are scattered across the stand. Species distribution and stocking are
Bigtooth Aspen	2	Pole/Sapling	5	36		rn Pin Oak	Medium	5 - 10 feet	Sapling	variable. On the stand's lower slope perimeter, the proportion in oak, W
Northern Pin Oak	40	Sapling/Pole	4	36	Northe	rn Pin Oak	Low	< 5 feet	Seeding	& RP increases, as does the canopy closure. BTA occurs along that edge too. This stand includes a narrow strip of state land on the west
White Pine	7	Pole/Log/Sap	7							side of the powerline corridor that was not within the state harvest; this
Red Pine	1	Pole/Log	8							roughly 1-acre strip has older JP, oak & RP that was not factored into the
Jack Pine	50	Pole/Sapling	5	36						parent stand's data. 2024 update: enough of the JP has shifted into the pole class to call the stand Pole overall (>30% cover in poles). Single-
										stem NPO continues to recruit into the canopy
50 629 - Mixed no	on-forested v	wetland	Nonst	ocked	11.2	U	Inspecified	No		Feb 2014 edge comments: Floodplain of Roy Creek. Cover alternates between alder-willow, wet meadow and water, depending on the level of beaver activity. Flood-killed cedar snags common in the north end. E/Q is encroaching along the margins, and the south end is filling in with WP fir & tamarack.
51 6220 -	Alder/willow	,	Nonst	ocked	1.4	U	Inspecified	No		Feb 2014 edge comments: Tag alder with grey dogwood and colonizing balsam fir.
52 6220 -	Alder/willow	,	Nonst	ocked	1.0	U	Inspecified	No		Feb 2014 edge comments: Tag alder & salix with colonizing E/Q.



Stand	Stand Level 4 Cover Ty	over Type	8	ize De	nsity	Acres	Stand Age I	BA Range	Managed S	Site	General Comments
53	6112 - Lov	wland Aspe	en S	awtimb	er Well	92.6	60	81-110	N/A		The stand was within a large timbersale (#78-60A, est. 390 ac. cut over)
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	that was spec'd to remove merch A, RM, PB & JP, and merch balsam fir & NWC within aspen clones. The harvest was active from 1961-1966
E	Black Spruce	2	Pole/Log	7		Re	ed Maple	Low	10 - 20 feet	Sapling	(vast majority cut by 1964) and was closed with "scattered patches not
В	igtooth Aspen	10	Log/Pole	12	60	Blac	ck Cherry	Low	Variable	Tall Shrub	cut due to inaccessibility (wet conditions)". The ground is PArVCo with
	Paper Birch	2	Log/Pole/Sap	10		Ta	ag Alder	Low	< 5 feet	Tall Shrub	drier and wetter inclusions. The terrain is cut with a series of linear swales containing tag alder, ilex & grey dogwood. The lowland brush
	Jack Pine	3	Log/Pole	10		Mich	nigan Holly	Low	5 - 10 feet	Tall Shrub	
Q	uaking Aspen	45	Log/Pole	11	60	Ва	ılsam Fir	Medium	Variable	Sapling	occurred in the aspen, but the merch cutting specs & incomplete access
	White Pine	5	Log/Pole/XLog	14				'			¹ made for a 2nd older age class across most species (cull common in that residual). 2nd age was on the residual RM; 1st age reflects the post-
	Balsam Fir	15	Pole/Sap/Log	6							harvest regen, including a portion of the RM. In addition to the aspen &
	Red Maple	16	Log/Pole	13	81						RM, there is patchy representation in balsam fir, PB, WP, JP & black
	Tamarack	2	Pole/Log	8							spruce, & traces of balsam poplar, oak, tamarack & RP (by the PVT). 2023 tsale prep volume data was used to inform canopy edits for this
											stand, currently on contract 72-036-23.
54	6220 - A	lder/willow		Nonsto	cked	3.8	ι	Jnspecified	No		Feb 2014 edge comments: Linear swale with tag alder, grey dogwood, dead ash & elm, widely-scattered RM, overmature QA & balsam poplar, and colonizing balsam fir.
55	4125 - Blac	k, N. Pin O	ak P	oletimb	er Well	31.8	36	1-50	N/A		Feb 2014 field comments: JP-O stand was final harvested in 1988 (#006
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	7 87). Regen from the harvest is mostly stump-origin oak, with stocky WP, JP & RP and some RM. There is a single-stem sapling oak component
No	orthern Pin Oak	80	Pole/Sapling	6	36	Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	that has potential to recruit. This stand includes a narrow strip of state
	White Pine	10	Pole/Log/Sap	8		WI	hite Pine	Low	Variable	Sapling	land on the west side of the powerline corridor that was not within the
	Red Maple	3	Sapling	3	36	North	ern Pin Oak	Low	< 5 feet	Seeding	state harvest; the strip includes J3 planted to the KW weave pattern by the USFS and sub-acre portions N & S in pole JP, oak & RP; that cover
	Jack Pine	5	Pole/Sapling	6				'			was not factored into the parent stand's data. 2024 update: enough of
	Red Pine	2	Pole	7							the NPO has shifted into the pole class to call the stand Pole overall
		, ,		·	<u> </u>						(>30% cover in poles). Upper crown mortality starting to occur in the stump-origin oak.
56	6220 - A	.lder/willow		Nonsto	cked	1.9	l	Jnspecified	No		Feb 2014 edge comments: Tag alder, salix & grey dogwood. Patch of open marsh behind the old beaver dam.

9

Pole/Log

Report 7 - Stands

Compartment: 65 Year of Entry: 2026



	d Level 4 Co	over Type	s	ize De	nsity	Acres Stand Age B.	A Range	Managed :	Site	General Comments
57	6117 - Lowland I Coni	Deciduous, ferous	, Mixed Sa	wtimb	er Poor	62.7 60	1-50	N/A		Feb 2014 field comments: The stand was within a 400+ acre harvest (#078-60A), that was spec'd to cut merch A, RM, PB & JP, and merch BF
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	& NWC in aspen clones. The harvest was active from 1961 to 1966 (vas majority cut by 1964) and was closed with "scattered patches not cut due
	Red Maple	40	Pole/Sap/Log	8	60	Red Maple	Low	5 - 10 feet	Sapling	to inaccessibility (wet conditions)". The partial harvest spec's partially
	Jack Pine	5	Log/Pole	12	102	Balsam Fir	Medium	Variable	Sapling	applied made for two broad age classes across the deciduous species.
	Balsam Fir	15	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub	The stand's first age was set to the harvest, but there is a mature component across most species. This ground is lowland overall, with
	Quaking Aspen	13	Log/Pole	10	60	Black Spruce	Low	Variable	Sapling	drier inclusions & non-forested wetland swales. The variable, marginal-
No	orthern White Cedar	2	Log/Pole	11		Michigan Holly	Medium	5 - 10 feet	Tall Shrub	quality E/Q overstory is majority pole, with log-sized residual scattered
	Black Spruce	5	Pole/Sapling	6			'			throughout & concentrated in pockets that the logger couldn't access.
	White Pine	5	Log/Pole/XLog	12						Small aspen clones occupy the drier ground. The understory has diverse lowland shrub cover and patchy E/Q regen. May 2024 update: the
	Tamarack	5	Log/Pole	10						ground is liberally cut with flooded swales (see 1998 DOQs). The
	Paper Birch	10	Pole/Sap/Log	6	60					operable upland patches have marginal cover; the log-sized components there tend to be oversized pulp. Due to a change in the MiFI canopy
58	4310 - Pir	ne. Oak Mi	_							
					er Well	14.5 103	81-110	N/A		Feb 2014 field comments: Mixed oak-pine stand on dry south aspect; steep drop down to cedar swamp and Roy Creek. Short, scrubby oak
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this
	Paper Birch	% Cover	Size Class Pole/Log	DBH	Age	Sub-Canopy Species Northern Pin Oak		Avg. Height Variable	Sapling	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the
1	Paper Birch Northern Pin Oak	% Cover 2 30	Size Class Pole/Log Pole/Log	8 8	Age 103	Sub-Canopy Species Northern Pin Oak Balsam Fir	Density	Avg. Height Variable Variable	Sapling Sapling	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase.
1	Paper Birch Northern Pin Oak White Pine	% Cover 2 30 30	Size Class Pole/Log Pole/Log Pole/Log/Sap	8 8 7	Age	Sub-Canopy Species Northern Pin Oak Balsam Fir Witch Hazel	Density Low Low Low	Avg. Height Variable Variable 5 - 10 feet	Sapling Sapling Tall Shrub	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase.
1	Paper Birch Northern Pin Oak White Pine Red Pine	% Cover 2 30 30 10	Size Class Pole/Log Pole/Log/Sap Pole/Log/Sap	8 8 7 8	Age 103	Sub-Canopy Species Northern Pin Oak Balsam Fir	Density Low Low	Avg. Height Variable Variable	Sapling Sapling	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase.
1	Paper Birch Northern Pin Oak White Pine Red Pine Balsam Fir	% Cover 2 30 30 10 3	Size Class Pole/Log Pole/Log Pole/Log/Sap Pole/Log Pole/Sapling	8 8 7 8 6	Age 103	Sub-Canopy Species Northern Pin Oak Balsam Fir Witch Hazel	Density Low Low Low	Avg. Height Variable Variable 5 - 10 feet	Sapling Sapling Tall Shrub	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase.
1	Paper Birch Northern Pin Oak White Pine Red Pine Balsam Fir Red Maple	% Cover 2 30 30 10 3 15	Size Class Pole/Log Pole/Log/Sap Pole/Log/Sap Pole/Log Pole/Sapling Pole/Sapling	8 8 8 7 8 6 6	Age 103	Sub-Canopy Species Northern Pin Oak Balsam Fir Witch Hazel	Density Low Low Low	Avg. Height Variable Variable 5 - 10 feet	Sapling Sapling Tall Shrub	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase.
1	Paper Birch Northern Pin Oak White Pine Red Pine Balsam Fir	% Cover 2 30 30 10 3	Size Class Pole/Log Pole/Log Pole/Log/Sap Pole/Log Pole/Sapling	8 8 7 8 6	Age 103	Sub-Canopy Species Northern Pin Oak Balsam Fir Witch Hazel	Density Low Low Low	Avg. Height Variable Variable 5 - 10 feet	Sapling Sapling Tall Shrub	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase.
59	Paper Birch Northern Pin Oak White Pine Red Pine Balsam Fir Red Maple White Oak	% Cover 2 30 30 10 3 15	Size Class Pole/Log Pole/Log/Sap Pole/Log/Sap Pole/Sapling Pole/Sapling Log/Pole	8 8 7 8 6 6	Age 103	Sub-Canopy Species Northern Pin Oak Balsam Fir Witch Hazel White Pine	Density Low Low Low	Avg. Height Variable Variable 5 - 10 feet	Sapling Sapling Tall Shrub Sapling	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase. This portion of stand 59 was excluded from harvest; most of it is within
	Paper Birch Northern Pin Oak White Pine Red Pine Balsam Fir Red Maple White Oak	% Cover 2 30 30 10 3 15 10	Size Class Pole/Log Pole/Log Pole/Log/Sap Pole/Log Pole/Sapling Pole/Sapling Log/Pole	8 8 7 8 6 6 12 wtimb	103 59	Sub-Canopy Species Northern Pin Oak Balsam Fir Witch Hazel White Pine	Density Low Low Low Low	Avg. Height Variable Variable 5 - 10 feet Variable	Sapling Sapling Tall Shrub Sapling	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase.
59	Paper Birch Northern Pin Oak White Pine Red Pine Balsam Fir Red Maple White Oak	% Cover 2 30 30 10 3 15 10	Size Class Pole/Log Pole/Log Pole/Log/Sap Pole/Log Pole/Sapling Pole/Sapling Log/Pole	8 8 7 8 6 6 12 wtimb	103 59 er Well	Sub-Canopy Species Northern Pin Oak Balsam Fir Witch Hazel White Pine	Density Low Low Low Low Low 1111-140	Avg. Height Variable Variable 5 - 10 feet Variable	Sapling Sapling Tall Shrub Sapling	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase. This portion of stand 59 was excluded from harvest; most of it is within the Roy Creek RMZ. The harvested portion was merged with stand 65. Carried forward the original parent stand data & comments from Feb 2014 field inventory: Overmature BTA (age from previous inventory) with
59	Paper Birch Northern Pin Oak White Pine Red Pine Balsam Fir Red Maple White Oak 4130 -	% Cover	Size Class Pole/Log Pole/Log/Sap Pole/Log Pole/Sapling Pole/Sapling Log/Pole Sa	DBH 8 8 7 8 6 6 12 wwtimb	103 59 er Well	Sub-Canopy Species Northern Pin Oak Balsam Fir Witch Hazel White Pine 11.1 88 Sub-Canopy Species	Density Low Low Low Low Density	Avg. Height Variable Variable 5 - 10 feet Variable N/A Avg. Height	Sapling Sapling Tall Shrub Sapling	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase. This portion of stand 59 was excluded from harvest; most of it is within the Roy Creek RMZ. The harvested portion was merged with stand 65. Carried forward the original parent stand data & comments from Feb 2014 field inventory: Overmature BTA (age from previous inventory) with RM, small amounts of oak, balsam fir & paper birch, and scattered
59	Paper Birch Northern Pin Oak White Pine Red Pine Balsam Fir Red Maple White Oak 4130 Canopy Species Northern Pin Oak	% Cover	Size Class Pole/Log Pole/Log/Sap Pole/Log Pole/Log Pole/Sapling Pole/Sapling Log/Pole Sa Size Class Log/Pole	DBH 8 8 7 8 6 6 12 wtimb	103 59 er Well	Sub-Canopy Species Northern Pin Oak Balsam Fir Witch Hazel White Pine 11.1 88 Sub-Canopy Species Witch Hazel	Density Low Low Low Low Density Low Low	Avg. Height Variable Variable 5 - 10 feet Variable N/A Avg. Height 5 - 10 feet	Sapling Sapling Tall Shrub Sapling Size Tall Shrub	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase. This portion of stand 59 was excluded from harvest; most of it is within the Roy Creek RMZ. The harvested portion was merged with stand 65. Carried forward the original parent stand data & comments from Feb 2014 field inventory: Overmature BTA (age from previous inventory) with RM, small amounts of oak, balsam fir & paper birch, and scattered supercanopy RP & WP. The understory has moderate to full cover in
59	Paper Birch Northern Pin Oak White Pine Red Pine Balsam Fir Red Maple White Oak 4130 - Canopy Species Northern Pin Oak Paper Birch	% Cover 2 30 30 10 3 15 10 - Aspen % Cover 3 2	Size Class Pole/Log Pole/Log/Sap Pole/Log Pole/Sapling Pole/Sapling Log/Pole Sa Size Class Log/Pole	BH 8 8 7 8 6 6 6 12 wtimb DBH 12 12	103 59 er Well	Sub-Canopy Species Northern Pin Oak Balsam Fir Witch Hazel White Pine 11.1 88 Sub-Canopy Species Witch Hazel Hazelnut (Beaked)	Density Low Low Low Low Density Low Low Low Low	Avg. Height Variable Variable 5 - 10 feet Variable N/A Avg. Height 5 - 10 feet < 5 feet	Sapling Sapling Tall Shrub Sapling Size Tall Shrub Tall Shrub	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase. This portion of stand 59 was excluded from harvest; most of it is within the Roy Creek RMZ. The harvested portion was merged with stand 65. Carried forward the original parent stand data & comments from Feb 2014 field inventory: Overmature BTA (age from previous inventory) with RM, small amounts of oak, balsam fir & paper birch, and scattered
59	Paper Birch Northern Pin Oak White Pine Red Pine Balsam Fir Red Maple White Oak 4130 Canopy Species Northern Pin Oak Paper Birch Red Maple	% Cover 2 30 30 10 3 15 10 - Aspen % Cover 3 2 30	Size Class Pole/Log Pole/Log/Sap Pole/Log Pole/Sapling Pole/Sapling Log/Pole Sa Size Class Log/Pole Log/Pole Pole/Log	DBH 8 8 7 8 6 6 12 wtimb DBH 12 12 9	103 59 er Well	Sub-Canopy Species Northern Pin Oak Balsam Fir Witch Hazel White Pine 11.1 88 Sub-Canopy Species Witch Hazel Hazelnut (Beaked) Balsam Fir	Density Low Low Low Low 111-140 Density Low Low High	Avg. Height Variable Variable 5 - 10 feet Variable N/A Avg. Height 5 - 10 feet < 5 feet Variable	Sapling Sapling Tall Shrub Sapling Size Tall Shrub Tall Shrub Sapling	steep drop down to cedar swamp and Roy Creek. Short, scrubby oak with WP & RP of all size classes. Even large saplings reach into this stand's low canopy. On the south edge, leveling out near the swamp, the oak cover decreases and balsam fir and RM increase. This portion of stand 59 was excluded from harvest; most of it is within the Roy Creek RMZ. The harvested portion was merged with stand 65. Carried forward the original parent stand data & comments from Feb 2014 field inventory: Overmature BTA (age from previous inventory) with RM, small amounts of oak, balsam fir & paper birch, and scattered supercanopy RP & WP. The understory has moderate to full cover in

Balsam Fir

3



Stand	Level 4 Co	over Type	S	Size Density	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
60	4130	- Aspen	Po	oletimber Well	19.1	27	51-80	N/A		Feb 2014 field comments: Aspen stand was final harvested in 1997
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	(#025-96). Regenerated back to aspen with scattered open-grown residual WP, BF, RP, and small amounts of oak and RM. The ground is
1	Northern Pin Oak	3	Pole	8	Blac	k Cherry	Low	Variable	Tall Shrub	upland overall, but the stand's S1/2 is cut with lowland brush swales.
	White Pine	5	Log/Pole/Sap	15	Ta	g Alder	Low	5 - 10 feet	Tall Shrub	Beaver felling has reduced the canopy in the S-center.
	Black Spruce	2	Pole	6	Michi	gan Holly	Trace	5 - 10 feet	Tall Shrub	
	Balsam Fir	5	Pole/Sapling	6						
	Bigtooth Aspen	20	Pole/Sapling	5 27						
	Quaking Aspen	60	Pole/Sapling	5 27						
	Red Maple	5	Pole/Sapling	6						
61	6220 - A	lder/willow		Nonstocked	3.8	ι	Jnspecified	No		Feb 2014 edge comments: Stand encompasses a group of small wetlands with salix, ilex, tag alder and encroaching Q/E.
62	6120 - Lov	wland Ceda	ar Sa	awtimber Well	62.8	128	201+	N/A		Feb 2014 field comments: Cedar swamp bordering Roy Creek. Except
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	for the flood-stressed patch on the east end, the cedar has decent vigor Associates include black spruce, RM, paper birch, balsam fir and
	Red Maple	10	Log/XLog/Pole			sam Fir	Low	Variable	Sapling	scattered supercanopy WP. The deciduous component increases on the
	Paper Birch	5	Log	12						stand margins by the uplands. Relatively open below in the stand's core,
	Balsam Fir	3	Pole	7						with balsam fir regen mostly along the margins. There is slash from root- tips. Heavy deer use. This stand includes a narrow strip of state land
	Black Spruce	10	Pole/Log	8						with similar cover on the west side of the powerline corridor. 2024
No	rthern White Cedar	70	Log/Pole	11 128						update: stand 64's boundary-excluded RMZ retention was merged with
	White Pine	2	XLog	24						this stand post-harvest (see Site Condition layer); this added mostly RM to the canopy data & contributing a 2nd age.
63	6220 - A	lder/willow		Nonstocked	2.3	L	Jnspecified	No		Lowland stretch of cleared powerline corridor with periodically brush-hogged tag alder & salix cover. Roy Creek flows across it, beaver-dammed at both edges of the corridor.
64	4130	- Aspen	;	Sapling Poor	22.3	1	Immature	N/A		MD stand on a steep hillside and flats by the swamp was harvested
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	spring 2023 (#017-16), cutting stems 2"+ DBH except RP-WP >18" DBH and retention that boundary-excluded Roy Creek's RMZ. Regenerating to
	Red Maple	10	Sapling	1 1		ch Hazel	Low	5 - 10 feet	Tall Shrub	pockets of A3 separated by LDT-D cover. Most of the stump-origin RM-
1	Northern Pin Oak	10	Sapling	1 1	Red	d Maple	Low	< 5 feet	Seeding	NPO is <3 ft tall and recordable only in the subcanopy. There is dense
	Bigtooth Aspen	80	Sapling	1 1	Ja	ck Pine	Trace	< 5 feet	Seeding	NPO regen on the hilltop. JP is seeding in on the flats by the swamp. There is a handful of xlog RP-WP scattered across the hillside. The
					Bigto	oth Aspen	Medium	< 5 feet	Seeding	aspen regen is re-leafing after being frosted. With only one growing
					Northe	rn Pin Oak	Low	< 5 feet	Seeding	season in, the regen doesn't pass at this time to stem density or height
				L				<u>I</u>		standards but potential for in-growth is good. Deer browse is very light.
65	310 - Herbac	eous Open	lland	Nonstocked	20.2	0 ι	Jnspecified	4139 - Aspen Deciduc	•	A-RM stand was harvested summer 2023 (#017-16), cutting stems 2"+ DBH except RP-WP >18" DBH and retention that boundary-excluded Roy
					Sub-Car	nopy Species	Density	Avg. Height	Size	Creek's & its tributary's RMZs. Regen is just getting into its first growing season. BTA and traces of RM-NPO are starting to sprout this spring.
					Wh	ite Pine	Trace	>20 feet	Log	Kildeers & sandhill cranes occupying the opening, may be nesting. Stand
					Re	ed Pine	Trace	>20 feet	Log	65's boundary-excluded RMZ retention was shifted to stands 57 & 69
					Red	d Maple	Trace	< 5 feet	Seeding	(see Site Condition layer).
					Northe	rn Pin Oak	Trace	< 5 feet	Seeding	
					Bigto	oth Aspen	Low	< 5 feet	Seeding	

tand	Level 4 Co	over Type	S	Size De	nsity	Acres Star	nd Age B	A Range	Managed S	Site	General Comments		
66	629 - Mixed non	n-forested w	vetland	nd Nonstoo		Nonstocked		27.0	U	nspecified	No		2014 edge comments: Floodplain of Grey Creek tributary, terraced with beaver dams. Cover alternates between alder-willow-ilex, wet meadow and open water, depending on proximity to each dam and the level of dam maintenance. Patches of ash snags. E/Q encroaching along margins.
67	4125 - Blac	k, N. Pin O	ak	Sapling	Well	106.3 15 I		mmature	N/A		Feb 2014 field comments: JP stand with a significant oak component was final harvested in 2009 (#015-06). Regen is predominantly oak, in		
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	Species	Density	Avg. Height	Size	both stump-origin clumps and individual stems. The stump sprouts are		
	Balsam Fir	2	Sapling	3		Northern P	in Oak	Medium	< 5 feet	Seeding	recruiting fastest, with dominant stems 5-7 feet tall. There is an oak		
No	orthern Pin Oak	70	Sapling	1	15	Witch Ha	azel	Low	5 - 10 feet	Tall Shrub			
	Red Pine	1	Sapling/Pole	4							is occurring but not overwhelming. JP regen increases toward the landing. Larger residual sapling WP, JP, RP & BF are scattered		
	Jack Pine	20	Sapling	1							throughout. Small amount of BTA regen along the NW edge. 2024		
	White Pine	5	Pole/Sap/Log	7							update: canopy closure has shifted into the 75-100% range as more of		
Е	Bigtooth Aspen	2	Sapling	2	15						the single-stem origin oak has recruited. The oak seedling layer has ve little browse. The stump-origin oak from the harvest is starting to show		
											some top die-back.		
8	6112 - Lov	vland Aspe	n Po	oletimb	er Well	55.2	60	81-110	N/A		The stand was within a large timbersale (#78-60A, est. 390 ac. cut ove		
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	Species	Density	Avg. Height	Size	spec'd to remove merch A, RM, PB & JP, and balsam fir & NWC within aspen clones. The harvest was active from 1961-1966 (vast majority of		
	Red Maple	15	Log/Pole	13	84	Michigan	Holly	Low	5 - 10 feet	Tall Shrub	by 1964) and was closed with "scattered patches not cut due to		
Е	Bigtooth Aspen	5	Pole	8	60	Balsam	Fir	High	Variable	Sapling	inaccessibility (wet conditions)". The NE 2 chains along the PVT were		
	Balsam Fir	7	Pole	7		Tag Ald	der	Low	5 - 10 feet	Tall Shrub	cut in 1984 (#79-84-02) & has more B-fir than aspen. The ground is PArVCo with drier & wetter inclusions. The terrain is dotted with small		
	Paper Birch	3	Log/Pole	10		White P	ine	Low	Variable	Sapling	tag alder/ilex wetlands; the lowland brush cover is patchy elsewhere.		
C	Quaking Aspen	70	Pole/Log	9	60						the highest ground, fairly complete cutting occurred in the aspen, but the merch & up specs & incomplete access made for a 2nd older age class		
	6130 - Fir, <i>I</i>	Aspen, Mar	ole Po	oletimb	er Poor	73.8	83	1-50	N/A		across most species. 2nd age was on the residual RM; 1st age reflect the post-harvest regen, including a portion of the RM. In addition to the aspen & RM, there is balsam fir, PB, & traces of oak, WP & cherry. Medium-full BF understory. Ash snags common. Recent beaver fellin of QA. Feb 2014 field comments: Low ground with mucky seeps and inclusion		
			Size Class		Age					C:	of marginally drier ground. The core wettest ground has a relatively or		
	Canopy Species Paper Birch	% Cover	Pole/Sapling	7	Age	Sub-Canopy Balsam	•	Density Medium	Avg. Height Variable	Size Sapling	canopy of balsam fir & RM over tag alder & ilex, with black & white spruce, paper birch, cedar & aspen associates. The cedar occurs in		
	Balsam Fir	33	Pole/Sapling	7	83	Black Sp		Low	Variable	Sapling	dense sub-acre patches. The slightly drier ground has less balsam fir		
Nort	thern White Cedar	10	Pole/Log	9	117	Michigan		Medium	5 - 10 feet	Tall Shrub	the overstory, more RM & white spruce, and greater canopy closure.		
	Black Spruce	15	Pole/Log	8	91	Tag Ald		Medium	10 - 20 feet		Patches on the stand's perimeter have 75-100% canopy closure. The understory has medium-to-high cover in fir & spruce. Large canopy ga		
	Red Maple	32	Pole/Sap/Log		01	rag Alc	201	MCGIGITI	10 20 1001	Tall Office	g understory has medium-to-high cover in fir & spruce. Large canopy ga formed from the overmature fir, PB & aspen breaking up are slowly fill		
	Quaking Aspen	2	Log/Pole	13							in with fir. 2024 update: mortality in the fir & birch, top-dieback in the		
G	RAGINIS MOPELL	2	Log/I OIG	13							RM. Part of stand 65's retention was merged into this stand (see Site Condition layer).		
70	6220 - A	lder/willow		Nonsto	cked	22.4	U	nspecified	No		Feb 2014 edge comments: Tag alder, salix, & ilex with patches of bea meadow. Active lodge. Flooded portion of what was probably the 196 harvest haul route cuts through it. Dead ash at north end.		



Stand Level	4 Cover Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments	
71 6113	- Lowland Map	le S	Sawtimb	er Well	18.3	96	81-110	N/A		The stand was within a large timbersale (#78-60A, est. 390 ac. cut over)	
Canopy Specie	es % Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	spec'd to remove merch A, RM, PB & JP, and balsam fir & NWC within aspen clones. The harvest was active from 1961-1966 (vast majority co	
Bigtooth Aspen	2	Log	16		Bal	Isam Fir	High	Variable	Sapling	by 1964) and was closed with "scattered patches not cut due to	
Quaking Aspen	10	Log/Pole	11		Ta	g Alder	Low	5 - 10 feet	Tall Shrul	inaccessibility (wet conditions)". Only a minor amount of the 1960's	
Red Maple	70	Log/Pole	13	96	Re	d Maple	Low	10 - 20 feet	Sapling	cutting occurred in this stand, which is on PArVCo & lower ground with marsh/lowland brush wetland inclusions throughout. Canopy is mostly	
Balsam Fir	10	Pole	7		Michi	igan Holly	Medium	5 - 10 feet	Tall Shrul	large cull RM with paper birch, overmature aspen, balsam fir, & traces	
Paper Birch	8	Log/Pole	11				,		,	WP, elm & balsam poplar. The ash has died out. Seams & poorly-healed branch scars common in the RM. Medium-to-full balsam fir	
										understory is recruiting into the canopy as the overmature PB, aspen 8 balsam fir components drop out.	
72 412	22 - Oak, Pine		Sapling	Poor	79.0	4	1-50	N/A		Dry oak-pine stand was final harvested by spring 2023 (#017-16), cutt	
Canopy Specie	es % Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	stems 2"+ DBH except WP and 5.6 acres in two retention islands (maintained as inclusions within the parent stand, see Site Condition	
Northern Pin Oak	k 5	Log	11	104	Ja	ck Pine	Low	< 5 feet	Seeding		
Northern Pin Oak	k 60	Sapling	1	4	Northe	ern Pin Oak	Medium	< 5 feet	Seeding	NPO had to be called Log only in order to overcome a MiFI limitation	
Red Pine	1	Sapling	1		Wh	ite Pine	Low	< 5 feet	Seeding	be able to record it separately from the canopy regen). Residual WP scattered across the harvested area. 50 acres were harvested by spr	
Jack Pine	4	Sapling	1							of 2020; the regen there passed to the oak-pine objective with vigorou	
White Pine	25	Pole/Log/Sap	9	60						stump-origin oak and minor WP-JP-RP regen. The remaining 20 acre	
Jack Pine	5	Log	11	81						the NW were cut by spring 2023; there is good oak regen, but after or one growing season, it doesn't pass to the minimum height standard years.	
										Browse is light and that later-cut portion is expected to recruit; a followagen survey will be prescribed for that area. This stand also include forested strip on the west side of the powerline corridor that was not pof the harvest and isn't reflected in the canopy data.	
73 6113	- Lowland Map	le Sa	wtimber	Medium	n 44.6	108	51-80	N/A		Feb 2014 field comments: Long narrow E-type stand between the plands and the cedar swamp. The canopy is RM-dominated, with particles and the cedar swamp.	
Canopy Specie	es % Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	birch, balsam fir & spruce associates, and small amounts of super-	
Northern White Ced	dar 5	Log/Pole	12		Re	d Maple	Low	>20 feet	Sapling	canopy WP & RP, NWC, oak, overmature JP & aspen. The RM is he	
Black Spruce	5	Pole	7		Blac	k Spruce	Low	Variable	Sapling	to cull saw. Slash is building as the overmature balsam fir, PB & QA break up. The canopy closure is 75-100% on the transition ground ed	
Red Maple	60	Log/Pole	12	108	Wh	ite Pine	Low	Variable	Sapling	but drops moving east onto the lower ground. The balsam fir & spruc	
Paper Birch	5	Log/Pole	10		Mich	igan Holly	Low	5 - 10 feet	Tall Shrul	understory is thick on the lower ground, but not enough has recruited	
Balsam Fir	15	Pole/Sap/Log	9 6	87	Ta	g Alder	Low	10 - 20 feet		lift the overall canopy closure beyond the 50-75% category. The	
White Pine	10	Pole/Log/XLog	g 8		Bal	Isam Fir	High	Variable	Sapling	understory cover is variable, ranging from relatively open, to dense balsam fir & spruce, to lowland brush or patches of tall RM saplings.	
74 622	2 - Shrub-Carr		Nonsto	cked	3.7	U	nspecified	No		Feb 2014 edge comments: Ilex & tag alder with <25% cover in large	

sap/small pole RM, PB, BF, NWC.



Stand Level 4 C	over Type	5	Size Density		Acres	Stand Age	BA Range	Managed S	Site	General Comments			
75 6122 - BI	ack Spruce	P P	oletimb	er Well	ell 10.4	61	81-110	N/A		March 2014 field comments: The largest of several patches cut along the			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height >20 feet >20 feet	Size	swamp edge between 1961 & 1963 (#76-61A, spec'd to remove merch balsam fir, black spruce, NWC & JP, along with minor amounts of			
Northern White Cedar	4	Log/Pole	12		Та	ıg Alder	Trace		Tall Shrub	hemlock, RM & PB). Regen from the cut is dense pole-sapling spruce &			
Red Maple	5	Pole	7	61	Ва	Isam Fir	Low		Sapling	fir with aspen, RM, PB & WP. The deciduous component is mostly along			
Paper Birch	5	Sapling/Pole	3	61						the west edge. Residual from the cut includes scattered NWC saw & super-canopy WP. Stand age was set to the harvest completion year,			
Quaking Aspen	7	Pole	6	61						but the regen continued to fill in over the next few years (5" DBH spruce cored 46 years), and the merch cuttings specs left a minor component colder residual.			
Balsam Poplar	2	Pole	8	61									
Balsam Fir	15	Sapling/Pole	4	61									
Black Spruce	60	Pole/Sapling	6	61									
White Pine	2	Log/Pole/XLog	10										
77 6113 - Lov	wland Mapl	e Sav		Medium Age		99	51-80 Density	N/A Avg. Height	Size	The stand was within a large timbersale (#78-60A, est. 390 ac. cut over) spec'd to remove merch A, RM, PB & JP, and balsam fir & NWC within			
Balsam Fir	15	Pole	6	Age		ig Alder	Low	5 - 10 feet		aspen clones. The harvest was active from 1961-1966 (vast majority cut by 1964) and was closed with "scattered patches not cut due to			
Black Spruce	2	Pole/Log	9			nite Pine	Low	Variable	Sapling	inaccessibility (wet conditions)". Patches of the 1960's cutting occurred			
Quaking Aspen	12	Pole/Log	8			d Maple	Low	10 - 20 feet	Sapling	in this stand, which is on PArVCo & lower ground, but there is more post			
Red Maple	60	Log/Pole	12	99		Isam Fir	High	Variable	Sapling	harvest residual (1st age) than regen (2nd age) across the designated- cut species. Terrain is dissected with lowland brush swales. Overstory i			
Paper Birch	5	Log/Pole	10			igan Holly	Low	5 - 10 feet		mostly poor-quality RM with balsam fir, paper birch, aspen & small			
White Pine	3	XLog/Log	28			.94		0 .0.000		amounts of NWC, black spruce & super-canopy WP. Canopy closure			
Northern White Cedar	3	Log/Pole	12							drifts off either end of 50-75%. Canopy gaps formed where overmature PB, balsam fir & QA died-out are filling in with balsam fir. The south			
										polygon cut off by the beaver-dammed stream is a roughly 3-acre island that appears to have similar ground and tree cover. Did not visit that poly			
78 310 - Herbac	eous Open	land	Nonsto	cked	9.9	Į	Unspecified	No		Cleared powerline corridor. NPO regen filling in the edges.			



Stand	Level 4 C	Level 4 Cover Type Size Density A				Acres	Stand Age B	A Range	Managed S	Site	General Comments		
79	4310 - Piı	ne, Oak Mi	x s	Sapling Well		213.6	25	1-50	N/A		Feb 2014 field comments: JP-O-A stand was final harvested in 1999		
C	anopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	(#035-96). Canopy is majority regen from the harvest, with an older residual small pole class across all species. WP is the only species with		
	White Pine	25	Log/Pole	11	56	North	ern Pin Oak	Low	< 5 feet	Seeding	most of its stems pole-sized or larger. The stand has a mix of JP, WP,		
	Boxelder	1	Log/Pole	11		Bla	ck Cherry	Low	Variable	Tall Shrub	oak, RM & BTA, with small amounts of BC, fir and RP. Species		
	Jack Pine	30	Sapling/Pole	4	25				1		distribution varies. WP is scattered throughout and concentrated on the steeper hillsides. The RM is mostly in the NE along the swamp edge.		
Bi	igtooth Aspen	3	Pole/Sapling	5	25						The BTA occurs in a few small clones. The older residual JP pole		
	Red Maple	3	Sapling	2							component is heaviest on the stand's W & S edges. The stand has on		
	Balsam Fir	3	Sapling/Pole	3							dissimilar inclusion that was not factored into the stand data: a narrow strip of state land on the west side of the powerline corridor that was		
No	rthern Pin Oak	35	Sapling/Pole	2	25						managed with the adjacent USFS lands (cut & trenched to the KW wei		
80	6122 - RI	ack Spring	a Do	oletimh	or Wall	5.6	61	81-110	N/A		stand past the 30% threshold for calling the stand Pole overall. Top dieback is starting to occur in the stump-origin oak. This stand's concentrated WP residual around stand 86 blurs into that W7 type, differentiated by only a 10-year gap in harvest entries. March 2014 field comments: One of several patches cut along the		
				Poletimber Well Class DBH Age							swamp edge between 1961 & 1963 (#76-61A, spec'd to remove merch		
	Paper Birch	% Cover	Size Class	3	61		nopy Species	Density Low	Avg. Height 10 - 20 feet	Size Tall Shrub	balsam fir, black spruce, NWC & JP, along with minor amounts of		
	Red Maple	5	Sapling Pole	7	01		ag Alder	Medium	Variable	Sapling			
0	uaking Aspen	3	Pole	7	61	Da	lisaiii Fii	Medium	Variable	Sapility	NWC saw & super-canopy WP. Stand age was set to the harvest		
	nern White Cedar	5	Log/Pole	12	01						completion year, but the regen continued to fill in over the next few year		
	alsam Poplar	5	Pole	8	61						and the merch cutting spec left a minor component of older residual. A acre in the stand's NE is a patch of cedar windthrow that wasn't part of		
	Balsam Fir	10	Sapling/Pole	3	61						the original cut. Because the blow-down happened more recently, the		
	White Pine	5	Pole/Log/XLog	8	0.						balsam fir and spruce regen within it is much younger.		
	Black Spruce	65	Pole/Sapling	6	61								
81		wland Ceda			er Well	103.9		171-200	N/A		2014 field comments: Dense cedar cover with minor spruce, fir, RM, F		
C	anopy Species		Size Class		l Age		nopy Species	Density	Avg. Height	Size	supercanopy WP. A lot of deer use this winter. Open below where the		
	Hemlock	2	Pole/Log	9			ed Maple	Low	Variable	Sapling	canopy is closed; heavy balsam fir understory in canopy gaps. The ce is relatively healthy & vigorous, but there is an area of stressed trees in		
	Red Maple	5	Pole/Log	8			ag Alder	Low	10 - 20 feet	Tall Shrub	s relatively nealthy & vigorous, but there is an area of stressed trees the SE by a couple acres of root-tipped cedar. Amongst the tangled		
	Paper Birch	3	Pole/Log	7			Ilsam Fir	High	Variable	Sapling	downed trees, there are cedar and paper birch saplings. Some of the		
	Balsam Fir	3	Pole	7		Ра	per Birch	Low	Variable	Sapling			
	Black Spruce White Pine	5	Pole/Log	24									
	nern White Cedar	80	XLog/Log Pole/Log	9	124								
82		et Meadow		Nonst		17.8	U	nspecified	No		Feb 2014 edge call: Large beaver meadow behind dams. Tag alder,		

salix & spiraea colonizing the edges.



		_	_			_					[a] DNRI■			
Stand	and Level 4 Cover Type		S	Size Density			Stand Age B	SA Range	Managed S	Site	General Comments			
83	6122 - Bla	ack Spruce	e Po	Poletimber Well		5.9	61	81-110	N/A		March 2014 field comments: One of several patches cut along the			
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Ca	anopy Species	Density	Avg. Height	Size	swamp edge between 1961 & 1963 (#76-61A, spec'd to remove merch balsam fir, black spruce, NWC & JP, along with minor amounts of			
No	rthern White Cedar	10	Log/Pole	12	124	Ва	alsam Fir	Medium	Variable	Sapling	hemlock, RM & PB). Regen from the cut is dense pole-sapling spruce &			
	White Pine	10	Pole/Log	7				<u> </u>	1		fir with WP, RM, aspen & PB. Residual from the cut includes scattered			
	Red Maple	5	Pole/Sapling	6	61						NWC saw & super-canopy WP. Stand age was set to the harvest completion year, but the regen continued to fill in over the next few years,			
	Paper Birch	2	Sapling/Pole	4	61						and the merch cutting specs left a minor component of older residual.			
	Quaking Aspen	3	Pole	7	61						2nd age estimate on the NWC was drawn from the adjacent cedar stand.			
	Black Spruce	60	Pole/Sapling	6	61									
	Balsam Fir	10	Pole/Sapling	6	61									
84	6112 - Lov	land Aspe	en Po	oletimb	er Well	21.5	60	111-140	N/A		The stand was within a large timbersale (#078-60A, est. 390 ac. cut over) spec'd to remove merch A, RM, PB & JP, and balsam fir & NWC within			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	aspen clones. The harvest was active from 1961-1966 (vast majority cut			
	Red Oak	2	Log/XLog	18		Ва	alsam Fir	High	Variable	Sapling	by 1964) and was closed with "scattered patches not cut due to			
	Paper Birch	5	Pole	6		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	inaccessibility (wet conditions)". The ground is PArVCo with drier & wetter inclusions. The terrain is dotted with small tag alder/ilex wetlands;			
	Balsam Fir	10	Pole	6							the lowland brush cover is sparse elsewhere. On the highest ground,			
	Bigtooth Aspen	20	Log/Pole	10							fairly complete cutting occurred in the aspen, but the merch cutting specs			
	Quaking Aspen	45	Pole/Log	9	60						& incomplete access made for a 2nd older age class across the			
	Red Maple	18	Pole/Log	9	85						designated-cut species. 2nd age was on the residual RM. In addition to the aspen & RM, there is balsam fir, PB, & traces of oak, NWC & balsam			
											poplar. The stand's NW has a more open canopy where the ash died out, leaving mostly RM & balsam fir. The stand's NE has a higher proportion in older residual stems. 2023 tsale prep volume data was used to inform canopy edits for this stand, currently on contract 72-036-23.			
85	42220 - Natu	ıral Jack F	Pine Po	letimb	er Well	10.4	51	51-80	N/A		JP along with some marked RP & WP sawtimber were salvaged after a fire in 1973 (#028-73). Residual from the salvage included super-canopy			
	Canopy Species 5		Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	WP & RP bordering the lowland edge, and scattered JP & poor-quality			
	Red Maple	3	Pole/Log	9		W	hite Pine	Low	Variable	Sapling	oak that survived the fire. Regen that filled in post-salvage is the majority			
	White Oak	2	Pole/Sap/Log	8		North	ern Pin Oak	Low	5 - 10 feet	Sapling	cover across the stand's interior: JP & WP small pole material. The WP			
	Northern Pin Oak	10	Pole/Sapling	6							I regen is heaviest along the stand's margins, where the RM also occurs. The canopy is at the low end of 75-100% closure and their is a sparse			
	White Pine	15	Pole/Log/XLog	8							inclusion in the north-center.			
	Jack Pine	65	Pole	7	51						The stand's second age was on the residual JP saw; due to a MiFI			

Red Pine

5

Log/Pole/XLog 11 74

surrogate.

limitation, that 2nd age was applied to the RP canopy record as a

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Stand	and Level 4 Cover Type		Si	Size Density			Stand Age I	BA Range	Managed S	Site	General Comments			
86	42200 - Natu	ıral White I	Pine Saw	timber	Medium	60.1	57	51-80	N/A		Mixed pine-oak stand was harvested in 2009 (#015-06), cutting 2"+ DBH			
C	Canopy Species % Cover Size Class DBH Age		Sub-Ca	Sub-Canopy Species		Avg. Height	Size	except RP-WP and a 4-acre island in the N end (noted as an old burned area w/ good WP regen). The stand's WP-RP residual is the featured						
Nc	orthern Pin Oak	1	Log/Pole	12		Bigto	oth Aspen	Low	>20 feet	Sapling	canopy. The WP ranges from large saplings to xlog, but most land in the			
	Red Pine	13	Log/Pole/XLog	14	80	WI	White Oak		5 - 10 feet	Sapling	small saw class (1st age). The WP large saw component increases			
	Jack Pine	1	Pole/Log	8		Northe	ern Pin Oak	Low	< 5 feet	Seeding	towards the stand's perimeter (WP 2nd age was applied to the RP canopy record as a surrogate because a MiFI limitation won't allow listing			
	White Pine	85	Log/Pole/XLog	11	57	Northe	Northern Pin Oak Jack Pine		Variable	Sapling	the older WP separately). The minor RP component is scattered			
						Ja			10 - 20 feet	Sapling	throughout. The small amounts of JP & oak are mainly in the north			
						Wh	nite Pine	Medium	Variable	Sapling	island. Canopy closure drifts off either end of the 50%. The understory has vigorous stump-origin oak regen 10-20' tall & single-stem oak 5-10'			
						Wit	ch Hazel	Trace	5 - 10 feet	Tall Shrub	tall. BTA has locally high cover in the stand's SE. Understory WP & RP			
											coverage is low. Deer browse on the oak regen was light. Regen passes to the oak-pine-aspen objective.			
87	42290 - Natu				er Well	43.1	71	111-140	N/A		"Old growth JP" was cut in 1961 (#029-61A), and a small amount of RP & WP saw were marked to cut in 1965 (#053-64). The JP is two-aged			
	Canopy Species		Size Class		Age		nopy Species		Avg. Height	Size	(mature poles in their 60's and overmature saw in their 80's). The			
В	igtooth Aspen	3	Log/Pole/XLog	10			nite Pine	Full	Variable	Sapling	overmature JP & NPO have been dropping out while the WP compone			
	Red Pine	5	Log/Pole/XLog	14	83		ern Pin Oak	Low	< 5 feet	Seeding	has been increasing. Stand is developing multi-age WP cover. There is a minor RP component, and traces of BTA, RM, WO, spruce & fir.			
	Jack Pine	25	Pole/Log	8	63		d Maple	Low	Variable	Sapling	Species distribution varies across the stand. The understory has medium-			
F	Black Spruce	2	Pole	8		North	ern Pin Oak	Low	Variable	Sapling	high WP cover. 2nd age on the JP was 83 but couldn't be listed			
	Red Maple	3	Pole/Log/XLog	8							separately due to a MiFI limitation so it was applied to the RP canopy record as a surrogate.			
No	orthern Pin Oak	10	Log/XLog/Pole	14	97						rocord as a surrogate.			
	White Oak	2	Log/XLog	15										
	White Pine	50	Log/Pole/XLog	10	71									
88	6220 - A	lder/willow	١	Nonsto	cked	4.1	l	Jnspecified	No		String of wetlands with tag alder, ilex, patches of marsh, dead ash. Encroaching fir, maple & aspen on the perimeter.			
89		wland Map			Medium		126	81-110	N/A		The stand was within a large timbersale (#078-60A, est. 390 ac. cut over) spec'd to remove merch A, RM, PB & JP, and balsam fir & NWC w/in			
	Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	aspen clones. The harvest was active from 1961-1966 (vast majority cut			
	White Pine	15	Pole/Log/XLog	8		Re	d Maple	Low	10 - 20 feet	Sapling	by 1964) and was closed with "scattered patches not cut due to			
	Red Pine	1	XLog/Log	22		Balsam Fir Michigan Holly Tag Alder White Pine		High	Variable	Sapling	inaccessibility (wet conditions)". Dispersed cutting occurred on the highest of this stand's PArVCo & lower ground, generally leaving more			
	Red Maple	60	Log/Pole	12	126			Low	5 - 10 feet	Tall Shrub	post-harvest residual (1st age) than regen (2nd age) across the			
	Hemlock	2	Pole/Log	9				Low	5 - 10 feet	Tall Shrub	designated-cut species. That incompete cutting made the stand highly			
	Paper Birch	2	Pole/Log	9				Medium	Variable	Sapling	variable in terms of species, age, and diameter distribution. Pronounced			
	Balsam Fir	10	Pole	7							tip-up mound topography with lowland brush swales. Overstory is mostly poor-quality RM with balsam fir, WP, PB, aspen, patches of NWC &			
North	nern White Cedar	5	Log/Pole	10							hemlock, & xlog RP. Canopy closure averages at the high end of 50-			
Q	uaking Aspen	3	Pole	8	60						75%, with sparser areas where the ash died out. Canopy gaps that			
В	igtooth Aspen	2	Pole	7							formed where overmature PB, balsam fir & aspen broke up are filling in with balsam fir, WP & RM. 2023 tsale prep volume data was used to inform canopy edits for this stand, currently on contract 72-036-23.			



Stand	Stand Level 4 Cover Type			Size De	nsity	Acres Stand Age BA Range			Managed \$	Site	General Comments				
90	90 4199 - Other Mixed Upland Deciduous		Deciduous S	Sawtimb	er Well	40.6 127	127	81-110	N/A		Feb 2014 field comments: Most of this mature oak stand was on land				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	acquired from the USFS in 1986. The stand's perimeter near the lowlands has more large NRO, but the drier interior has poorer quality hybridized				
	Red Oak	10	Log/XLog	18		Ва	ılsam Fir	Low	Variable	Sapling	oak, white oak & overmature JP. Canopy closure is at the low end of 75-				
	Red Maple	10	Pole	7		WI	hite Pine	Medium	Variable	Sapling	100% there, with WP poles & large saplings filling in. The aspen occurs				
	Bigtooth Aspen 25 Log/Pole 14 60					Wit	tch Hazel	Low	5 - 10 feet	Tall Shrub	in small clones scattered across the stand. Most of the aspen is overmature saw, but the stand's southeast 6 acres were within timbersale				
Bla	ck/Red (Hybrid) Oak	40	Log/XLog	16	127						#78-60A (merch aspen, RM, PB, & JP were cut; oak was left) resulting in				
	White Pine	5	Pole/Log	8							patches of younger pole aspen (second age, cutting record) mixed into				
	Red Pine	2	Log/XLog/Pole	e 16					the mature oak overstory there. 2024 update: tsale volume data w used to inform canopy edits for this stand, currently on contract 72-						
	White Oak	5	Log	14							21.				
	Jack Pine	3	Log/Pole	11											
91 4125 - Black, N. Pin Oak Sapling N		/ledium				N/A		Old notes indicated this was a landing cleared in 1999 for harvest #035- 96. Opening filling in with oak, WP & JP. Handful of mature oak around							
	Canopy Species	ies % Cover Size Class DBH Ag		Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the deer season campsite.					
	White Pine	15	Sapling/Pole	4		Black/Re	d (Hybrid) Oak	Low	< 5 feet	Seeding	<u>'</u>				
Bla	ck/Red (Hybrid) Oak	70	Sapling	3	25										
	Jack Pine	10	Sapling	4											
	White Oak	5	Sapling	2											
92	6117 - Lowland I Coni	Deciduous ferous	, Mixed S	Sawtimb		14.5	108	81-110	N/A		Feb 2014 field comments: Lowland swale hemmed in by uplands W & E, and running from the cedar swamp at the N end down to the Duval Creek				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	floodplain at the S end. RM is the common thread, but canopy cover varies greatly with the ground conditions. The N end is wettest, with a				
	Balsam Fir	10	Pole	7		Mich	nigan Holly	Low	5 - 10 feet	Tall Shrub	more open canopy, smaller-diameter RM, significant spruce-fir-tamarack				
	Tamarack	2	Log	12		Blac	ck Spruce	Low	Variable	Sapling	components, and patches of NWC. Moving south, the ground isn't as				
	Paper Birch	7	Log/Pole	12		WI	hite Pine	Medium	Variable	Sapling	saturated. The canopy closure & RM component increases, and large oak & overmature BTA occur on the transition ground margins. The				
	Bigtooth Aspen	3	Log	15		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	stand's S end is on a couple old terraces above Duval Creek and				
	Black Spruce	6	Pole	7		Ва	ılsam Fir	High	Variable	Sapling	encompasses a small tributary. The ground is wet-mesic, and has a mix				
No	rthern White Cedar	7	Log/Pole	12	133						of supercanopy WP & RP, cedar, hemlock, RM, large red oak & BTA, & a trace of sugar maple. The balsam fir understory is heaviest along the				
	Red Oak	2	Log/XLog	18							creek.				
	Red Pine	3	XLog/Log	22											
	Red Maple	50	Log/Pole	12	108										



Stand	Level 4 Co	Level 4 Cover Type Size Den		Size Density Acres Stand Age BA Range					Site	General Comments				
93	4139 - Aspen, Mixed Deciduous		duous F	Poletimber Well		18.4	60	111-140	N/A		Feb 2014 field comments: The stand was within a large timbersale (#78-			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	60A, est. 390 ac. cut over) spec'd to remove merch A, RM, PB & JP, and balsam fir & NWC within aspen clones. The harvest was active from			
	Bigtooth Aspen	55	Pole/Log	9	60	Ва	Isam Fir	Low	Variable	Sapling	1961-1966 (vast majority cut by 1964) and was closed with "scattered			
	Paper Birch	2	Pole/Log	8		Wh	nite Pine	Medium	Variable	Sapling	patches not cut due to inaccessibility (wet conditions)". This upland			
	White Oak	2	Log/XLog	15		Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	stand had good access and was cut close to specs, resulting in a fairly uniform regen event for the designated species. The majority pole			
Blac	ck/Red (Hybrid) Oak	15	XLog/Log	20	125						bigtooth aspen cover has RM and small amounts of QA & paper birch in			
	White Pine	2	XLog/Log	28							the same cohort. Residual from the harvest includes large oak, RP &			
	Quaking Aspen	1	Pole	7							WP, often super-canopy in stature. A few dozen RP & WP saw were cut in 1964 (#32-64). The stand's perimeter near the lowlands has heavy			
	Red Maple	20	Pole/Log	8							subcanopy balsam fir, but only low-medium cover in WP saplings			
	Red Pine	3	XLog/Log	22							interior. The second age estimate was based on the adjacent mature			
94	6220 - A	.lder/willow		Nonsto	cked	2.4		Unspecified	No		upland oak stand, likely in the same cohort as this stand's residual oak. 2024 update: tsale volume data was used to inform canopy edits for this stand, currently on contract 72-020-21. Feb 2023 edge comments: Duval Creek floodplain: tag alder with			
											patches of marsh, cattail.			
95	4130	- Aspen		Sapling	Well	12.7	15	Immature	N/A		Jan 2014 field comments: Was final harvested 2"+ DBH except hemlock 3 & NWC, and WP 25"+ DBH in 2009 (#031-07). Regenerated well to			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	quaking & bigtooth aspen, with minor amounts of red maple & balsam fir.			
	Balsam Fir	5	Pole/Sapling	g 5		Blackbe	rry/Raspberry	High	< 5 feet	Tall Shrub	Residual hemlock, NWC & xlog WP are scattered above. A lot less RM			
	Hemlock	2	Log/Pole	12							regen than expected, given the volume removed; what did sprout is			
	White Pine	5	Sapling/Pole	2							seeing deer browse. The stand has small poorly-stocked inclusions, most of them low ground swales, but the ground is upland overall. 2024			
	Balsam Poplar	5	Sapling	2							update: Beaver are reducing the aspen cover in a wide swath along the			
	Red Maple	3	Sapling	2	15						streams; WP & fir are slowly filling in those non-forested zones.			
	Bigtooth Aspen	35	Sapling/Pole	9 3	15									
	Quaking Aspen	45	Sapling	3	15									
96	6112 - Lov	wland Asper	n S	Sapling N	/ledium	16.7	15	Immature	N/A		Jan 2014 field comments: Was final harvested 2"+ DBH except hemlock			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	NWC, and WP 25"+ DBH in 2009 (#031-07). Patchy distribution of quaking & bigtooth aspen regen with traces of balsam poplar. Residual			
	Balsam Poplar	5	Sapling	3		Blackbe	rry/Raspberry	Medium	< 5 feet	Tall Shrub	includes hemlock, xlog WP, and a few NWC. Most of the hemlock is			
	Quaking Aspen	45	Sapling	3	15	Та	ig Alder	Low	5 - 10 feet	Tall Shrub	concentrated in a sub-acre patch in the stand's S-center. There is a			
	Bigtooth Aspen	20	Sapling	3	15	Wil	low spp.	Low	5 - 10 feet	Tall Shrub	narrow uncut swath bordering the S private line where most of the balsam fir is. The stand has poorly-stocked inclusions scattered throughout,			
	White Pine	10	Sapling/Pole							1	occurring mostly on the lowest ground. While the stand has ground dry			
	Hemlock	5	Pole/Log	8							enough to support bigtooth aspen, the stand is majority lowland. Narrow			
	Red Maple	3	Sapling	2							drainage valleys border and cut through the stand. 2024 update: Dense			
	Balsam Fir	10	Sapling/Pole								well-established aspen clones are separated by lowland shrub openings. Beaver are reducing the aspen cover in a wide swath along the streams;			
	Paper Birch	2	Sapling	2							WP & fir are slowly filling in those non-forested zones.			
97	3302 - Low Den	sity Conifer	r Trees	Nonsto	cked	2.9	0	Unspecified	No		Was part of a red pine plantation final harvested 2"+ DBH in 2009 (#031-07). This area of borrow-pit topo is slowly filling in with WP, RP, fir, NPO & aspen cover. The south half of the original stand 97 that successfully regenerated to aspen was merged with stand 99 at re-inventory.			



Stand	98 6239 - Mixed Emergent Wetland			Size Density Nonstocked			Stand Age	BA Range	Managed	Site	General Comments	
98			etland				0	Unspecified	No		This portion of stand 100 is now non-forested due to loss of the ash, leaving scattered NWC, balsam poplar, box elder & patches of lowland shrub cover above ostrich fern, canary grass & cattail.	
99	6112 - Lov	wland Aspe	n S	Sapling N	Medium	10.9	15	Immature	N/A		Was final harvested 2"+ DBH except for hemlock & NWC in 2009 (#031-	
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Specie	es Density	Avg. Height	Size	07). Regenerated to dense aspen clones with two upland openings in the NE & SE and a marsh inclusion on the center-W edge. Those non-	
Nortl	hern White Cedar	2	Log/Pole	12		Blackbe	erry/Raspberr	y High	< 5 feet	Tall Shruk	forested inclusions drag the overall canopy closure just below 75%. The	
	Hemlock	3	Log/Pole	12					1	-	stand's core is on lowland ground but the north 3 acres and the south 1	
В	Bigtooth Aspen	15	Sapling	3							acre are on upland ground. Balsam poplar continues to fill in on the lowest ground. The scattered residual hemlock & NWC are mostly on	
C	Quaking Aspen	55	Sapling	3	15						that lower ground also.	
	Balsam Fir	5	Pole/Sapling	j 6							·	
Е	Balsam Poplar	20	Sapling	3	15							
100	6130 - Fir, <i>i</i>			awtimber			94	81-110	N/A		Jan 2014 field comments: The stand occupies the floodplain and first terrace of the Pine River and the narrow valleys of three tributaries. The	
(Canopy Species	% Cover			Age		anopy Specie	es Density	Avg. Height	Size	ground is majority lowland but includes drier transition ground on the	
	White Pine	5	Log/XLog	14			ag Alder	Low	5 - 10 feet	Tall Shrub		
	Basswood	5	Log/XLog	16			alsam Fir	Medium	Variable	Sapling	where most of the black & green ash grew is shifting to non- forested/sparse cover. The NWC is concentrated along the river and	
	Paper Birch	5	Log/Pole	12		В	Boxelder	Low	10 - 20 feet	Sapling	stream corridors. The drier transition ground to the uplands has the	
	Quaking Aspen	5	Log	15							densest cover and is heavier to RM, balsam fir, aspen & paper birch.	
Е	Balsam Poplar	5	Pole/Log	9							Minor associates include hemlock, basswood and WP. Boxelder, prickly ash and riverbank grape occur along the Pine. 2024 update: the	
	Balsam Fir	25	Pole	6	59						overmature aspen has largely died out. The SW stream corridor was split	
	Red Maple	30	Log/Pole	12	94						off as stand 101 after the canopy there was flood-killed.	
	Hemlock	5	Log/Pole	12								
Nortl	hern White Cedar	15	Log/Pole	12								
101	500 -	- Water		Nonsto	ocked	3.0	0	Unspecified	No		Most of the tree cover in this portion of stand 100 has been flood-killed. Terraced with beaver dams. Mostly open water, with some floating aquatic plants, marsh grass, and patches of lowland shrub.	
102	102 500 - Water			Nonstocked		2.3	0 ι	Unspecified	No		Pine River	
103	6220 - A	lder/willow		Nonsto	cked	10.5		Unspecified	No		Split off from stand 82. This portion of the beaver meadow has been colonized by lowland shrub cover (tag alder, salix & spiraea).	