

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 non-game 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.

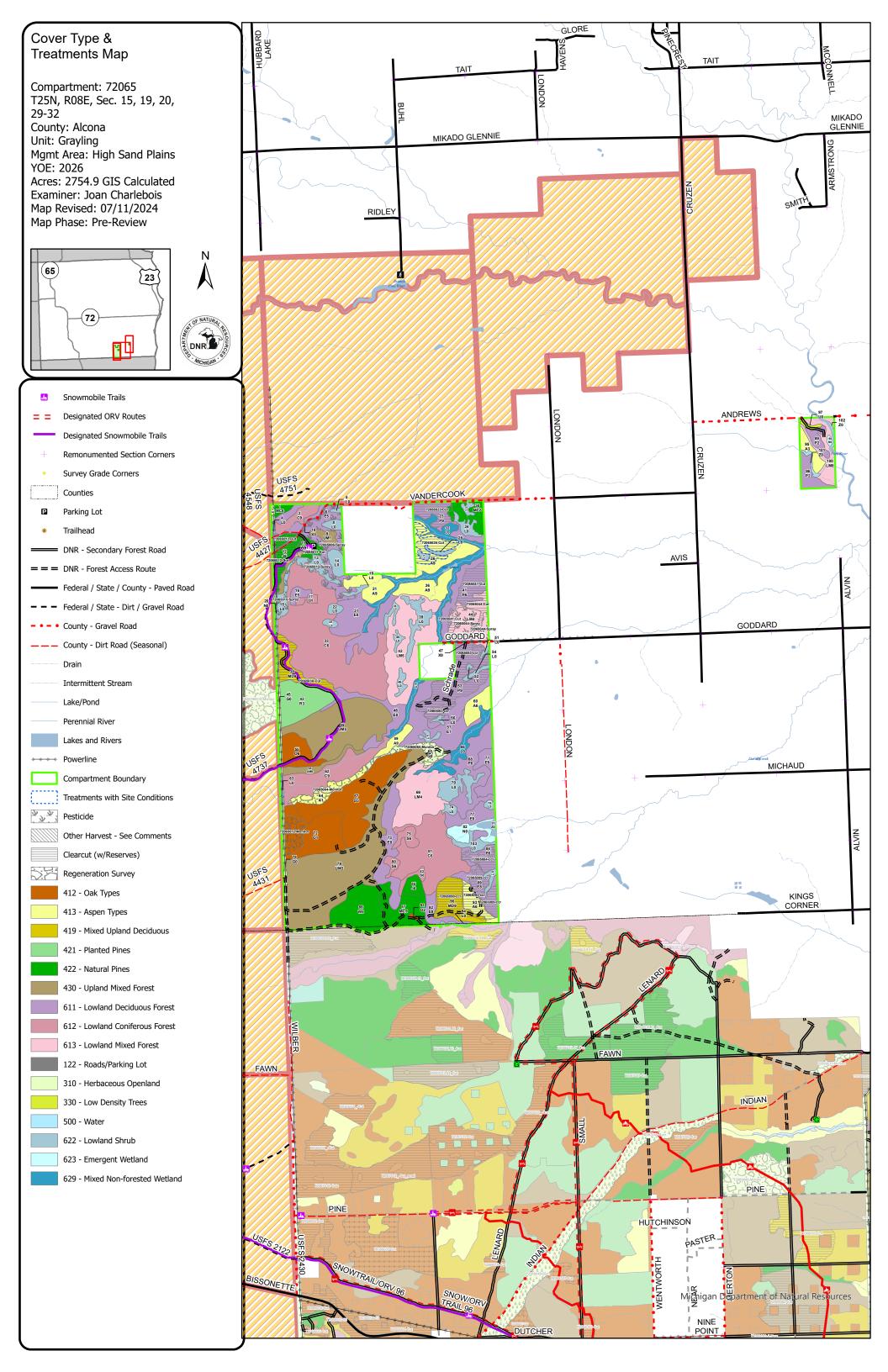
Additional Compartment Information:

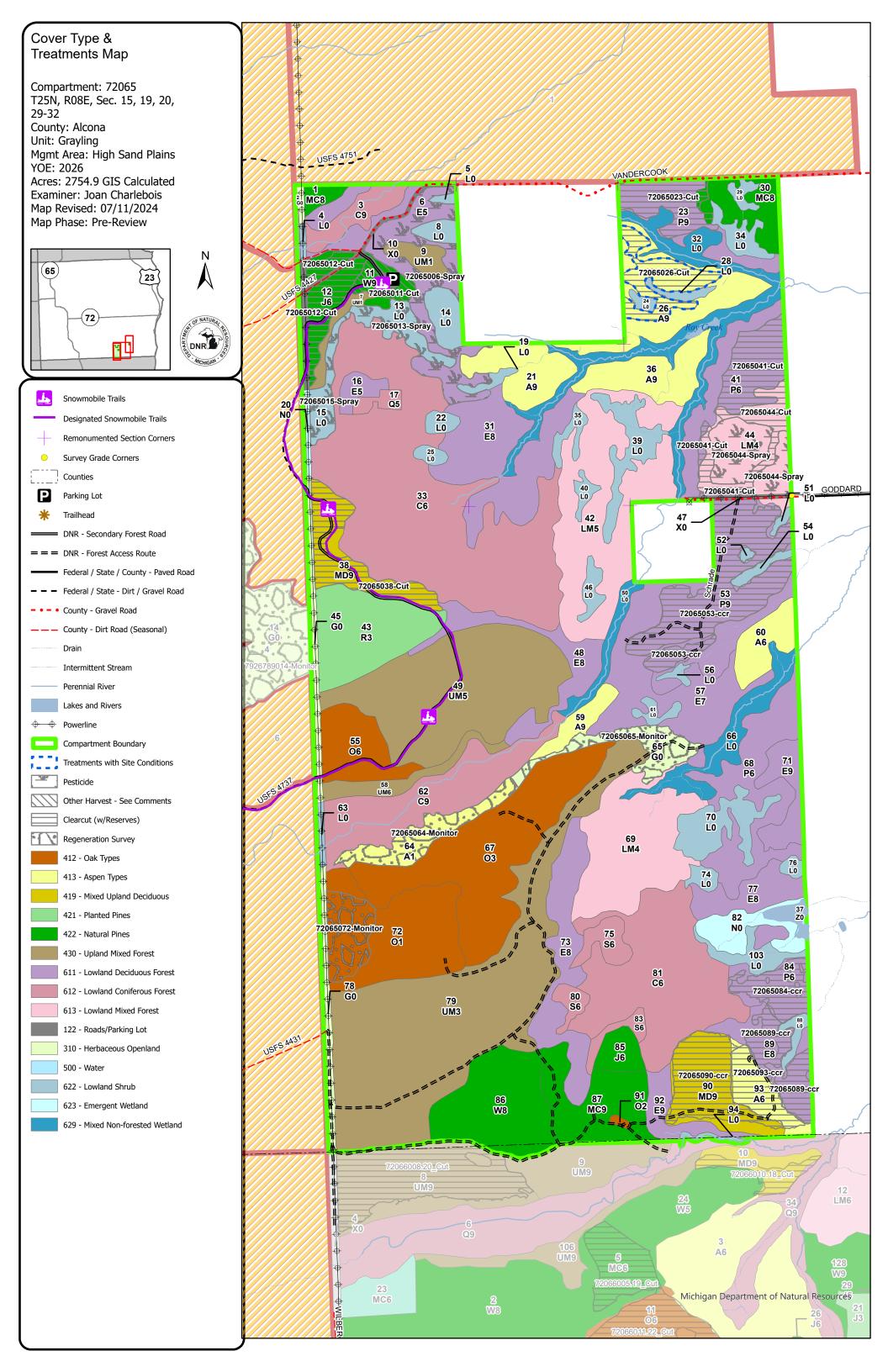
The following reports from the Inventory are attached:

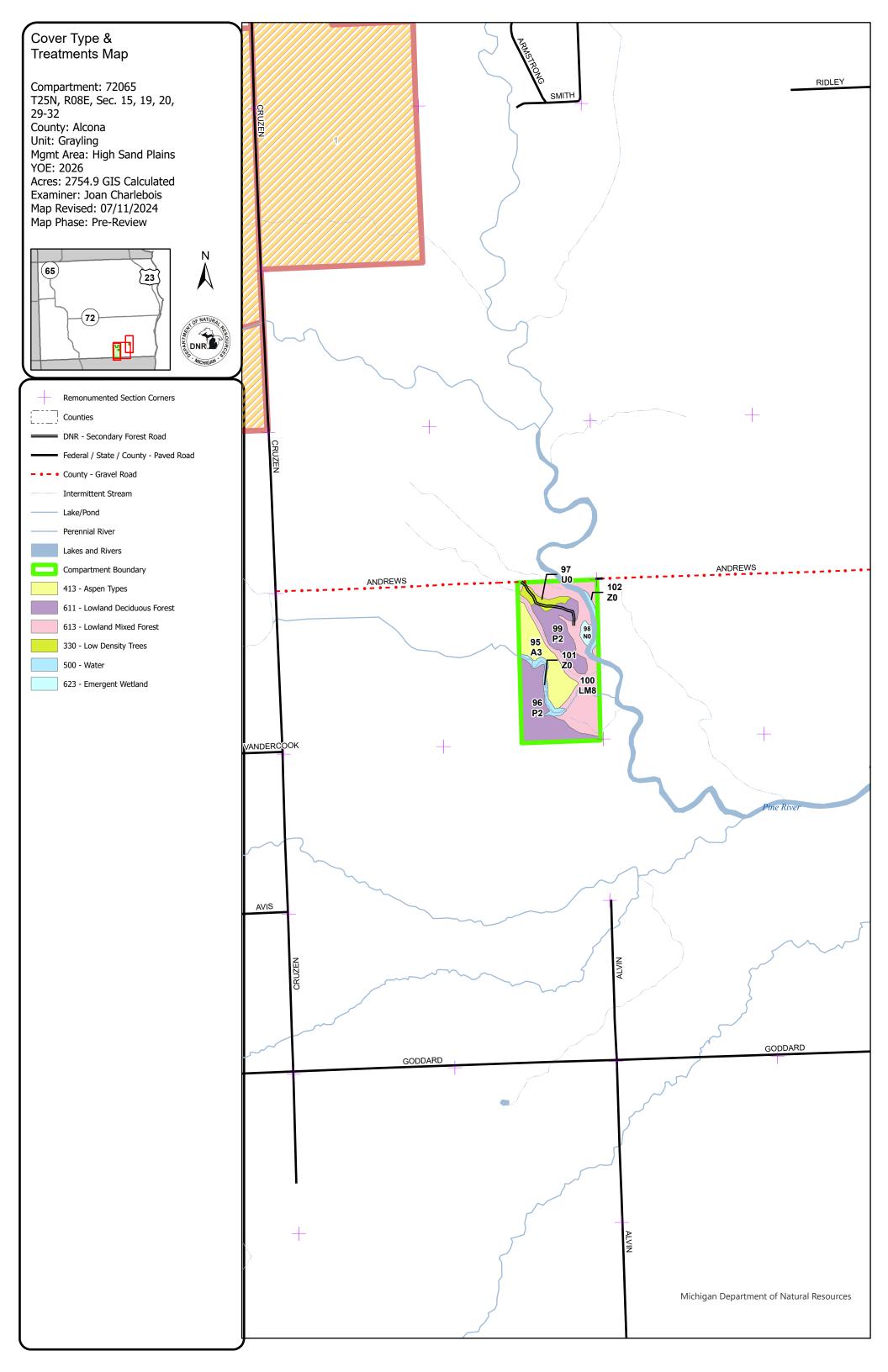
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

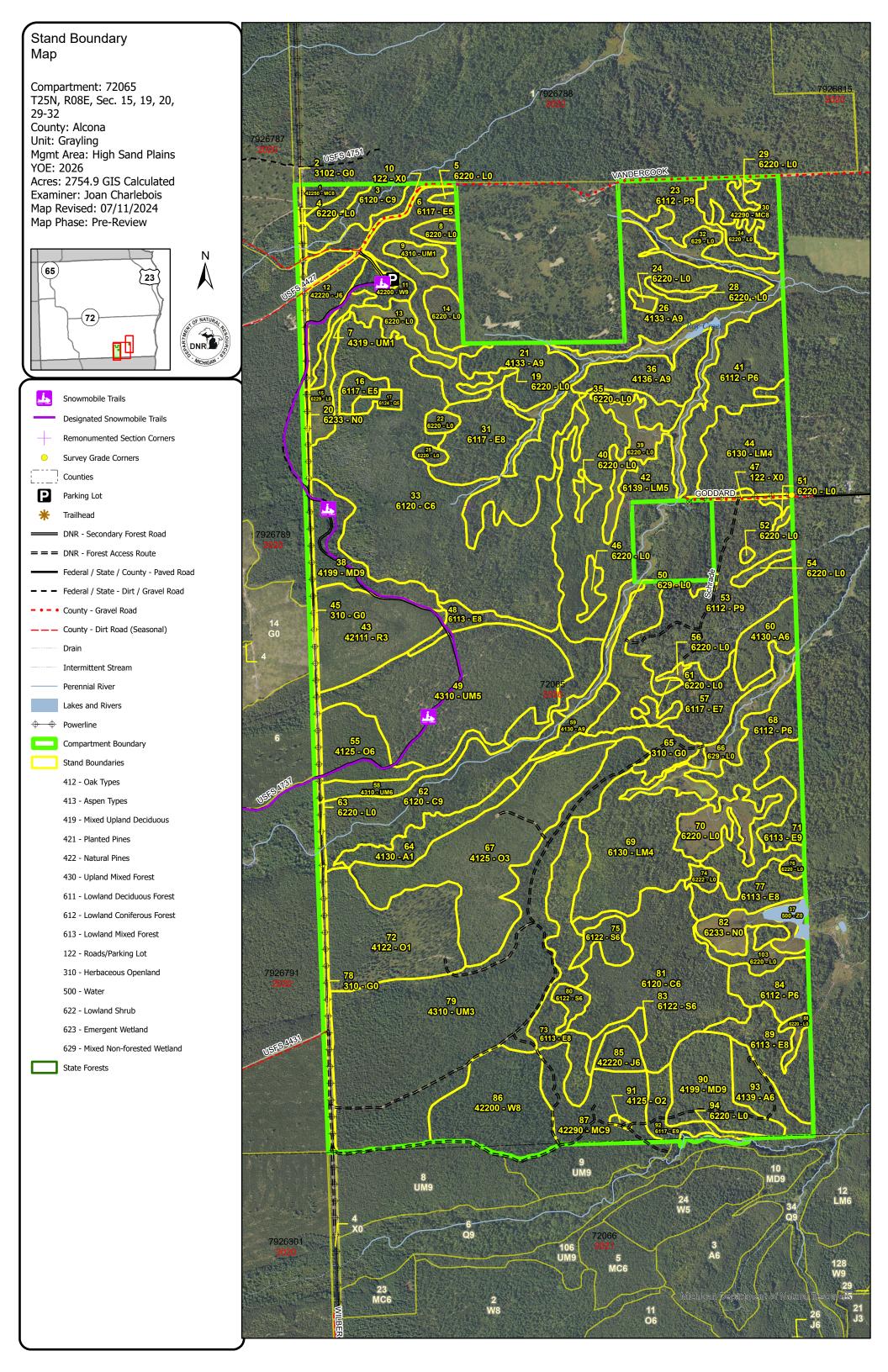
The following information is displayed, where pertinent, on the attached compartment maps:

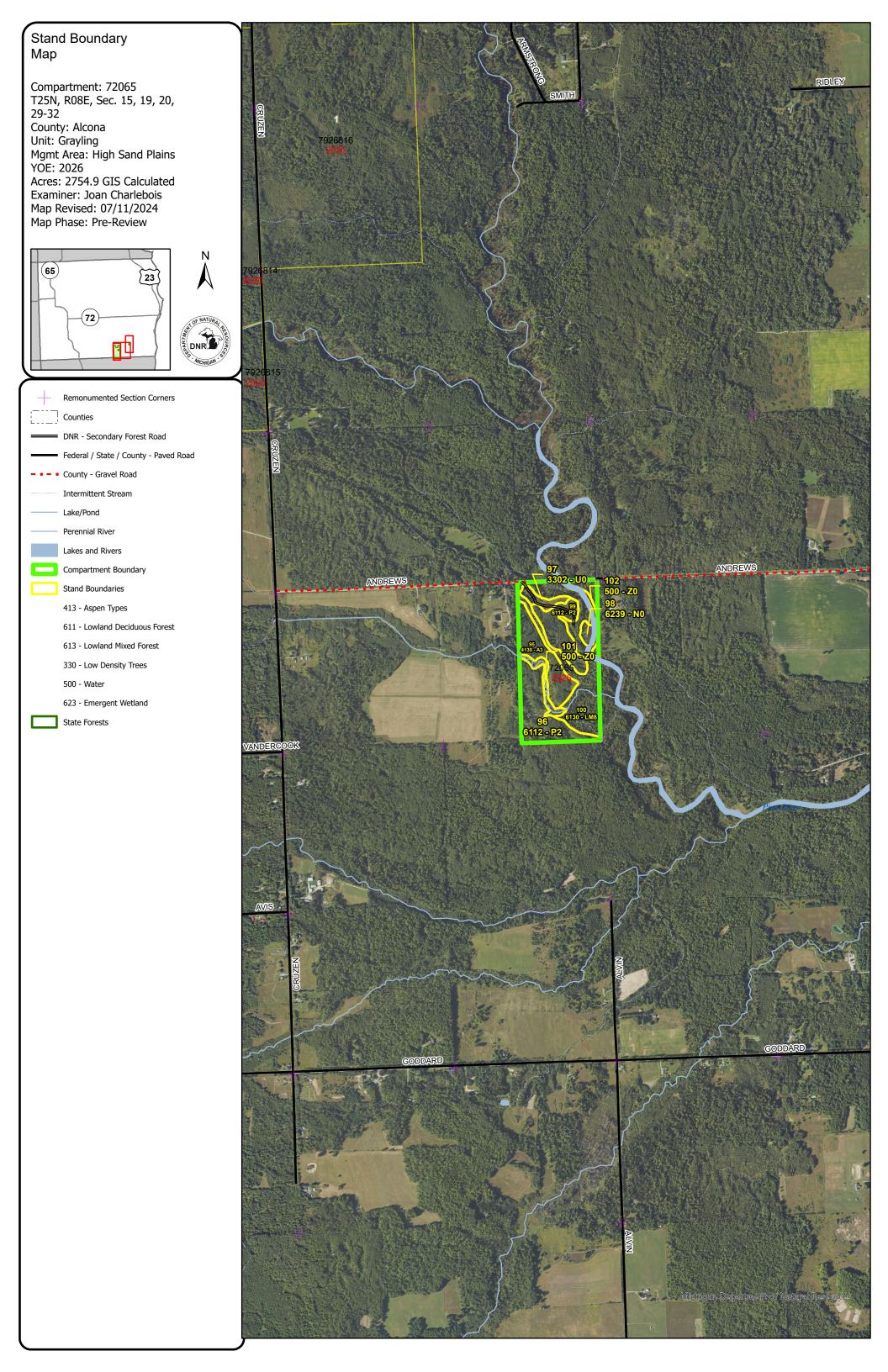
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

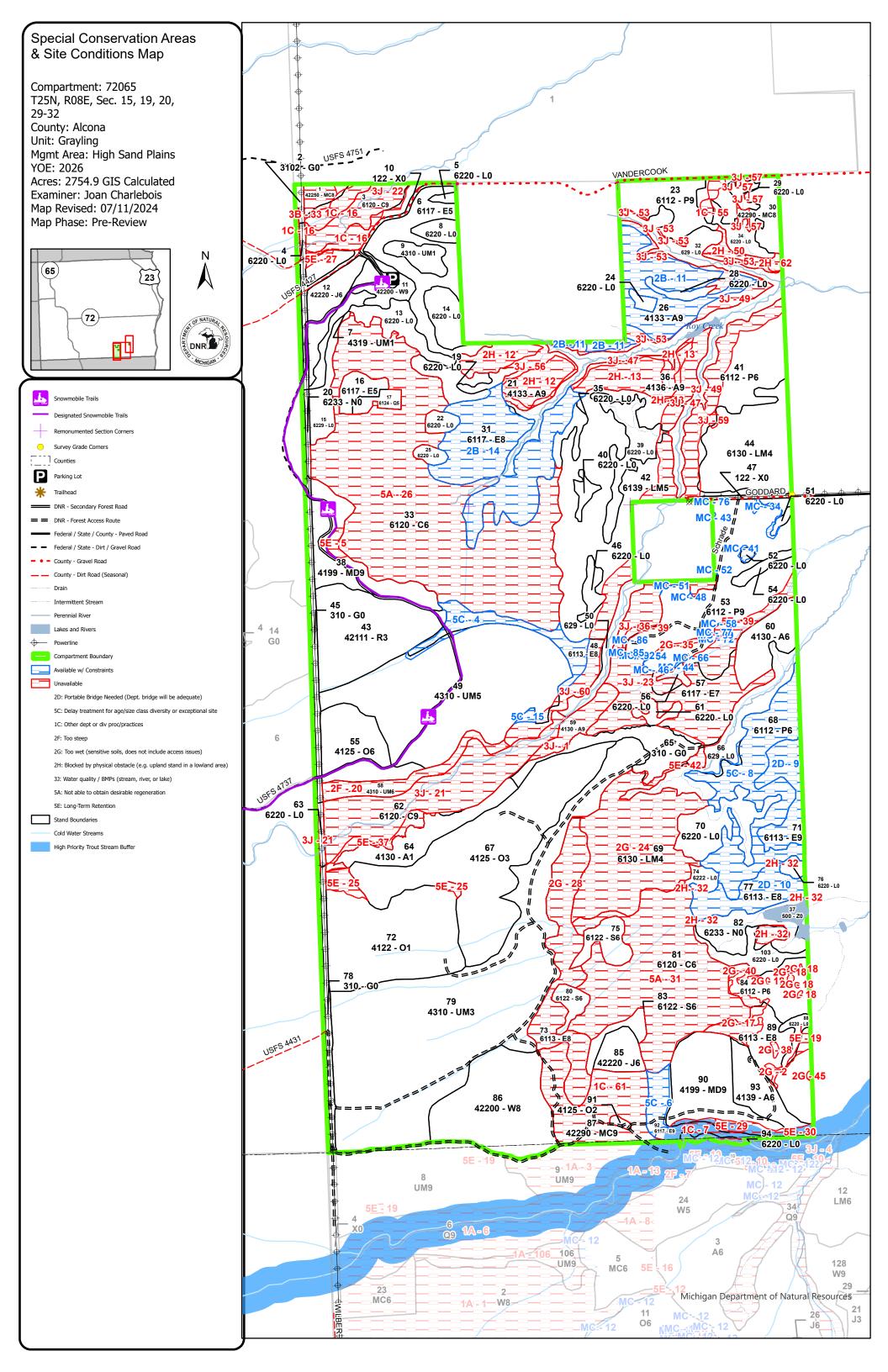


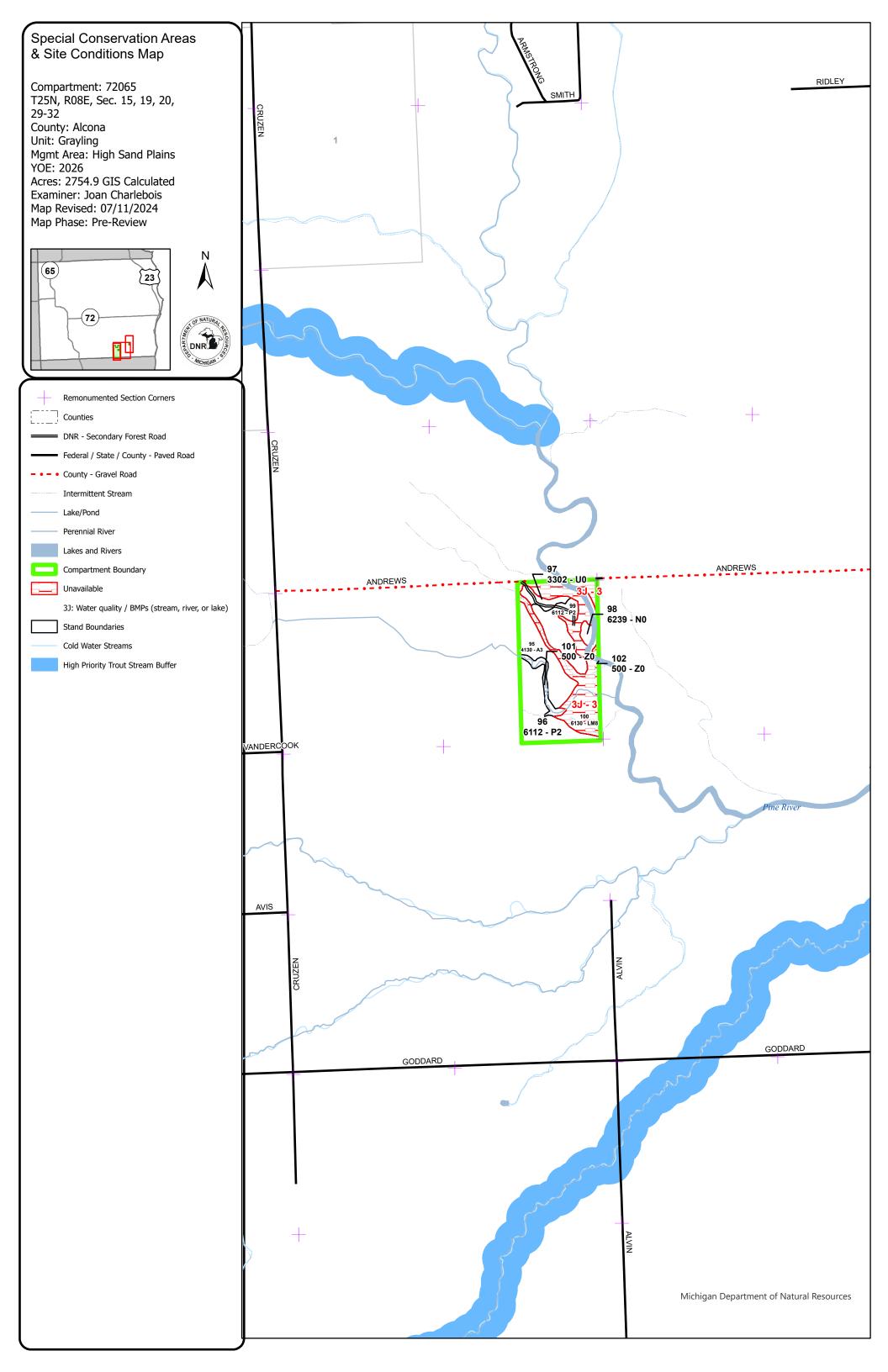












Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment 65 Year of Entry 2026



Age Class

	Į gr	Kor /	30 / 5			3 / 12		3 /8				8 /2	7a, 7a,					St Star	TO TO	/
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

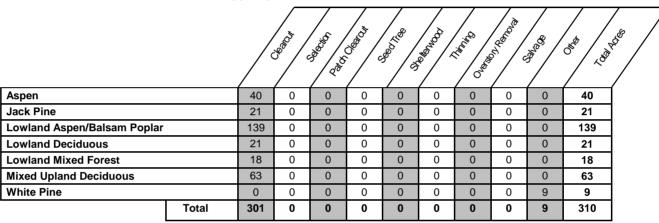
Grayling Mgt. Unit Year of Entry: 2026

Acres of Harvest

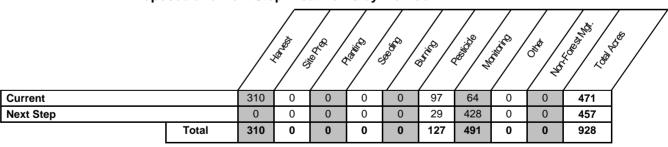
Compartment 65
Total Compartment Acres: 2,755

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

Cover Type by Harvest Method



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 Name CoverType Density Age Range Type Method Objective Structure Cut Ч **Proposed Treatments:** 6 72065006-6117 - Lowland Poletimber 611 - Lowland 44.3 59 51-80 Pesticide Hand Application 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 9.2 42200 - Natural Sawtimber 83 81-110 Harvest Other - Specify 4220 - Natural No Two-Aged White Pine Well White Pine 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: Acceptable Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2025 12 72065012-Cut 20.5 42220 - Natural Poletimber 51 81-110 4129 - Mixed Harvest Clearcut with Even-Aged No Jack Pine 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. Next Step Monitoring, Natural Regen (Re-Inventory) 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** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age Habitat n Name CoverType Density Age Range Type Method Objective Structure Cut Ч 13 72065013-13.4 6220 - Alder/willow Nonstocked Unspec Pesticide Hand Application 613 - Lowland Even-Aged No ified Mixed Forest Spray 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 15 72065015-11.1 6229 - Mixed Nonstocked Unspec Pesticide Hand Application 622 - Lowland No lowland shrub ified Shrub Spray 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 6112 - Lowland 72065023-Cut 22.2 6112 - Lowland Sawtimber 53 81-110 Harvest Clearcut with Even-Aged Nο Aspen Well Retention 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. Next Step Monitoring, Natural Regen (Re-Inventory) 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	Mgt. Unit		Repo	rt 3	Treatments		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-Cu	t 23.3	4133 - Aspen, Mixed Pine	Sawtimbe Well	er 63	111- 140	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
Pres Spe	<u>cs:</u> swale EMR	s. Protect le CCAA guide	egacy pine. Exclud	de the 300- eatment bo	ft RMZ undary	along Ro has beer	y Creek and 100 n edited to appro	ound that isn't fragm I-ft RMZs along the ximate the propose	tributaries. Apply	drumming lo	g spec &
	t Step Monit atments:	oring, Natura	al Regen (Re-Inver	ntory)							
Acc Reg	<u>eptable</u> Aspe <u>en:</u>	n with RM, V	VP & fir.								
Othe Com	<u>er</u> nment:										
Site	Condition U	nknown Acce	ess								
Prop	oosed Start Da	<u>:e:</u> 10/1 /20	25								
38	72065038-Cu	-	199 - Other Mixed Jpland Deciduous	Sawtimbe Well	er 102	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
Pres Spe	cs: snow	mobile trail a	and the swamp. Th	ne treatmer	nt bound	dary has	been edited to a	ocating the island to pproximate that pro EMR CCAA manag	posed exclusion.	Apply snown	
	t Step Monit atments:	oring, Natura	al Regen (Re-Inver	ntory)							
Acce Reg		derately stoc	cked mix of aspen,	maple, oal	c and co	onifers.					
Othe Com	<u>er</u> nment:										
Site	Condition										
Prop	oosed Start Da	<u>:e:</u> 10/1 /202	25								
41	72065041-Cu	t 29.4	6112 - Lowland Aspen	Poletimbe Well	er 48	111- 140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
Pres Spe								t the vernal pool ar CCAA managemer		nage. Apply o	drumming

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

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 Ч 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 Specs: of allowing the existing road to be cleared for stand 41 harvest access. No chipping due to low ground & EMR managed lands. Follow EMR 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 44 72065044-28.6 6130 - Fir, Aspen, Poletimber 48 1-50 Pesticide Hand Application 613 - Lowland Even-Aged No Maple Poor Mixed Forest Spray Prescription Control the invasive glossy buckthorn within the stand. Specs: Next Step Monitoring, Herbicide Use Treatments: <u>Acceptable</u> Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2025 72065064-22.3 Natural Regen No 64 4130 - Aspen Sapling Immatu Monitoring 4139 - Aspen, Even-Aged Poor (Re-Inventory) Mixed Monitor re 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: <u>Other</u> Comment:

Proposed Start Date: 10/1 /2033

Site Condition

S			Grayling	Mgt. Unit	F	Repoi	rt3 T	reatments		Compartment Year of Entry		DNR
a n d	Trea	atment ame	Acres	Stand CoverType		Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
6		065065- onitor	20.2	310 - Herbaceous Openland	Nonstocke	d 0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	4139 - Aspen, Mixed Deciduous	Even-Ageo	l No
	escriptio oecs:	in check re	egen									
	ext Step eatment											
Re	cceptable egen:	<u>Modera</u>	te stocking	g in aspen, oak, RM	1 & mixed c	onifers	, with poor	rly-stocked inclu	sions acceptable f	or EMR habitat.		
	ther omment:											
	te Condi	<u>tion</u> Start Date:	10/1 /20:	33								
72	2 720	065072- onitor		4122 - Oak, Pine	Sapling Poor	4	1-50	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Even-Ageo	l No
	escription oecs:	<u>n</u> check re	egen									
	ext Step eatment											
	cceptable egen:	e A mode	rately stoo	ked mix of oak, Wi	P, JP & RP.							
	ther omment:		ow light th	e deer browse has	been and h	ow reli	ably oak r	ecruits in the are	ea, this survey can	be conducted at r	e-inventory.	
<u>Si</u>	<u>te Condi</u>	<u>tion</u>										

Approved Treatments:

Proposed Start Date: 10/1 /2033

53 720650	053-ccr 70.6	6112 - Lowland Aspen	Sawtimber Well	60	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
Prescription Specs:	alder swales. S recommended a	DBH & up. Apply a mall amounts of ind llong Roy Creek. A intended RMZ excl	ividual leave-t 100 ft buffer v	rees ((ie: WP sav	w) may also be	designated. Per l	Fisheries Division,	a 300 ft buffer i	s
Next Step Treatments:	Monitoring, Natu	ıral Regen (Re-Inve	ntory)							
Acceptable Regen:	Includes a mix o	f aspen, lowland de	ciduous, coni	fer, ar	nd lowland	shrub cover.				
Other Comment:		ins a mosaic of low acceptable regen inc		_			•		ep comments: N	Natural
Site Condition	<u>on</u>									
Proposed St	art Date: 10/1 /2	022								

S t		Grayling	Mgt. Unit		Repoi	rt 3 ⁻	Freatments		Compartmen Year of Entry		DNR
	ment me	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
84 72065	5084-ccr	16.5	6112 - Lowland Aspen	Poletimbe Well	er 60	111- 140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	l No
Prescription Specs:	_	ration. App						e enough of the coal leave-trees (ie: oa			
Next Step Treatments		ring, Natura	al Regen (Re-Inver	ntory)							
Acceptable Regen:	Include	s a mix of	aspen, red maple,	conifers an	id lowla	nd shrubs	i.				
Other Comment:	Old ne	ext step co	mments: Natural re	egen surve	y. Acce	eptable reg	gen includes a n	nix of aspen, red m	naple, conifers and	lowland shru	.edı

Proposed Start Date: 10/1 /2022 72065089-ccr 20.8 6113 - Lowland Sawtimber 126 81-110 Harvest Clearcut with 6117 - Lowland Even-Aged No Medium Maple 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 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).

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

Includes a mix of lowland deciduous, conifers and shrub cover. Acceptable Regen:

Other Old next step comments: Natural regen survey. Acceptable regen includes a mix of lowland deciduous, conifers and shrub cover. Comment:

Site Condition

Site Condition

Specs:

Proposed Start Date: 10/1 /2022

72065090-ccr 33.7 4199 - Other Mixed Sawtimber 127 81-110 Harvest Clearcut with 4121 - Oak. Even-Aged No **Upland Deciduous** Retention Aspen

Final harvest 2" DBH & up except leave white pine & red pine. Apply standard area-based retention, which may include individual leave-trees (ie: oak saw). Leave an adequate RMZ along Duval Creek. Extend the north & west harvest boundary down into the adjacent lowland Prescription Specs: 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, <u>Other</u> Comment: conduct necessary site prep and supplemental plant red pine.

Site Condition

Proposed Start Date: 10/1 /2015

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 CoverType Method Objective Name **Density** Age Range Type Structure Cut Ч 16.3 93 72065093-ccr 4139 - Aspen, Poletimber 111-Harvest Clearcut with 413 - Aspen Even-Aged No 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

Total Treatment 471
Acreage Proposed:

Proposed Start Date: 10/1 /2015

Compartment: 65

Grayling Mgt. Unit

Year of Entry: 2026 Joan Charlebois: Examiner

Availa	ability for	Managemer	nt													
Total	Acres	Acres Avail	Acres	De	omina	nt Site	e Cond	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 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
	Commonts:						

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 boun	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 t	hree tril	butaries.			
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 tand 38 that has the same gree			a buffer out of this already	narrow stand. Consider tr	eating next YOE along
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Potential retention	for stand 38's proposed harves	t.				
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	ouval Ci	reek RMZ. Consider treatir	g denser transition ground	l edges when adjacent upla	and 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	vivision request to discouraç	e beaver activity on a stre	am important for trout prod	uction. Also includes a

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Comments:

Gravling Mat. Unit

Excluded from stand 84 & 89 harvest boundary due to saturated ground, sparse cover, &/or immature cover.

Gravling Mat. Unit Compartment: 65 Year of Entry: 2026 Joan Charlebois: Examiner Unspecified 18 5E: Long-Term Retention Unspecified Unspecified Unavailable 2G: Too wet (sensitive 1 soils, does not include access issues) Comments: Small wetlands boundary-excluded from stand 84's harvest Unspecified Unspecified Unspecified 5E: Long-Term Retention 2 Unspecified 19 Unavailable Comments: Immature cover excluded from stand 89's harvest boundary. Unspecified Unspecified Unspecified Unavailable 15 Unspecified 20 2F: Too steep Comments: Steep south aspect above Roy Creek swamp. 21 3J: Water quality / BMPs 5A: Not able to obtain Unspecified Unspecified Unspecified Unavailable 58 (stream, river, or lake) desirable regeneration Comments: Cedar stand on Roy Creek floodplain. The stream meanders through the stand. Heavy deer use in the winter of 2013/2014. 22 16 5A: Not able to obtain Unspecified Unspecified Unavailable 3J: Water quality / BMPs Unspecified (stream, river, or lake) desirable regeneration Comments: Cedar swamp with a perennial stream meandering through it.

Comments:

Unavailable

3J: Water quality / BMPs

(stream, river, or lake)

23

Stand 57 was flagged in 2015 query as being at high risk for Spruce Budworm impact. Salvage Rx not recommended due to the marginal BF component, low ground, and RMZ's (300' for Roy Creek, 100' for trib to Grey Creek). JC

5F: Evaluated for Forest

Health Considerations

2I: Survey needed

2G: Too wet (sensitive

soils, does not include access issues)

74

Unspecified

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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 hig	h risk fo	or Spruce Budworm impact.	Salvage Rx not recomm	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 ste	ep hills	ide.			
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. To ne stand.	sale pre	ep 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 300 foot uncut strip small tributary.	n for stand 90. along Duval Creek, left at Fish	eries D	livision 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
L		on for stand 93.300 foot uncut s production. Also includes a sma			eries Division request to dis	courage beaver activity o	n a stream
31	Unavailable	5A: Not able to obtain desirable regeneration	104	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Past cedar harvests	s in this stand have converted t	ne cov	er to spruce, fir, aspen, or lo	wland hardwoods (see star	nds 75, 80, 83).	
32	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
33	Unavailable	3B: Threatened, endangered, and special concern species	5	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
34	Available	Minor Change in Acreage	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Fag 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
		ed in 2015 query as being at hig (300' for Roy Creek, 100' for tri			ct. Salvage Rx not recomi	mended due to the margina	al 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 ac	dditional low ground.		
38	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	t boun	dary.			
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	n Unspecified	Unspecified	Unspecified
	Comments: Excluded from stan 84's harvest.	nd 84 & 89 harvest boundary du	e to sa	turated ground, sparse cov	er, &/or immature cover.	This portion also designate	d retention for stand
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
C	comments:						
44	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
	comments: aturated ground e	excluded from stand 89's harves	t bour	ndary.			
46	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
47	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
	comments: 00-ft RMZs						
48	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						

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Unavailable	3J: Water quality / BMPs (stream, river, or lake)	45	Unspecified	Unspecified	Unspecified	Unspecified
comments: 00 ft RMZ recomm	nended by Fisheries Division ald	ong Roy (Creek			
Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
comments: larrow bottleneck	crosses low ground to reach the	drier ride	ge along the creek.			
Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 00-ft RMZ						
Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	1C: Other dept or div proc/practices	3	Unspecified	Unspecified	Unspecified	Unspecified
comments:						
	Comments: 00 ft RMZ recomm Unavailable Comments: Available Comments: Available Comments: Unavailable Comments: Unavailable Comments: Unavailable Comments: Unavailable Comments:	(stream, river, or lake) comments: 00 ft RMZ recommended by Fisheries Division ald obstacle (e.g. upland stand in a lowland area) comments: larrow bottleneck crosses low ground to reach the Available Minor Change in Acreage comments: Available Minor Change in Acreage comments: Unavailable 3J: Water quality / BMPs (stream, river, or lake) comments: Available Minor Change in Acreage comments: Unavailable Minor Change in Acreage comments: Unavailable Minor Change in Acreage comments: Unavailable Minor Change in Acreage comments:	(stream, river, or lake) comments: 00 ft RMZ recommended by Fisheries Division along Roy (Unavailable 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) comments: larrow bottleneck crosses low ground to reach the drier ridge Available Minor Change in Acreage 0 comments: Unavailable Minor Change in Acreage 0 comments: Unavailable 3J: Water quality / BMPs 14 (stream, river, or lake) comments: O0-ft RMZ Available Minor Change in Acreage 0 comments: Unavailable Minor Change in Acreage 0 comments: Unavailable Minor Change in Acreage 0 comments: Unavailable Minor Change in Acreage 3	(stream, river, or lake) Comments: 00 ft RMZ recommended by Fisheries Division along Roy Creek Unavailable 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) Comments: Idarrow bottleneck crosses low ground to reach the drier ridge along the creek. Available Minor Change in Acreage 0 Unspecified Comments: Unavailable Minor Change in Acreage 0 Unspecified Comments: Unavailable 3J: Water quality / BMPs (stream, river, or lake) Comments: On-ft RMZ Available Minor Change in Acreage 0 Unspecified Comments: Unavailable 1C: Other dept or div proc/practices Unavailable 1C: Other dept or div proc/practices	(stream, river, or lake) Comments: 00 ft RMZ recommended by Fisheries Division along Roy Creek Unavailable 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) Comments: Itarrow bottleneck crosses low ground to reach the drier ridge along the creek. Available Minor Change in Acreage 0 Unspecified Unspecified Comments: Unavailable Minor Change in Acreage 0 Unspecified Unspecified Comments: Unavailable 3J: Water quality / BMPs 14 Unspecified Unspecified Comments: Orth RMZ Available Minor Change in Acreage 0 Unspecified Unspecified Comments: Unavailable 3J: Water quality / BMPs 14 Unspecified Unspecified Comments: Orth RMZ Available Minor Change in Acreage 0 Unspecified Unspecified Comments: Unavailable Minor Change in Acreage 0 Unspecified Unspecified Comments: Unavailable Minor Change in Acreage 0 Unspecified Unspecified Comments: Unavailable Minor Change in Acreage 0 Unspecified Unspecified Comments: Unavailable Minor Change in Acreage 0 Unspecified Unspecified Comments:	(stream, river, or lake) Comments: Other RMZ recommended by Fisheries Division along Roy Creek Unavailable 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) Comments: Comments: Comments: Available Minor Change in Acreage 0 Unspecified Unspeci

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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	t guidelin	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 intermit	tent stre	eam and low ground.			
66	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
72	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
76	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
77	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
85	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
86	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

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89	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Co	omments:						
92	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
	Available omments:	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified

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				

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Report 6 - EXISTING SPECIAL CONSERVATION AREA DETAILS

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

Conservation Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish speci conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	es to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA Riparian Area		A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high documunities are ecologically and socially significant in their effect as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well

Report 7 - Stands



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Stand	Level 4 Co	over Type	S	ize De	nsity	Acres	Stand Age E	BA Range	Managed S	iite	General Comments
1	42250 -	Pine, Oak	Saw	vtimber	Mediun	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	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 & RP
	White Pine	5	Pole/Log	8		Wh	ite Pine	Low	Variable	Sapling	increases on the hillside. RM picks up as the ground flattens out near
	Red Pine	5	Pole/Log	8		Black/Red	d (Hybrid) Oak	Medium	Variable	Sapling	the swamp. The understory has oak, WP, and to a lesser extent RP &
	Jack Pine	55	Pole/Log	9	83						JP filling 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
Bla	ck/Red (Hybrid) Oak	30	Log/Pole	11							them. 2024 update: JP & NPO are dropping out of the canopy. Most of
	Red Maple	5	Pole/Sap/Log	7							the SE on the flats was shifted to stand 6.
2	3102	- Grass	ı	Nonsto	cked	1.8	l	Jnspecified	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	ar Sa	awtimb	er Well	15.7	125	141-170	N/A		Feb 2014 field comments: Cedar swamp bordering Vandercook Creek.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	NWC health is good overall, but size & vigor decreases at the west end near the powerline corridor. No visible NWC regen. Black spruce has
	White Pine	8	XLog/Log	20		Bal	sam Fir	Low	Variable	Sapling	filled in densely and recruited to fill gaps in the cedar canopy. WP is a
	Paper Birch	2	Pole/Log	7		Blac	k Spruce	Medium	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.
	Black Spruce	20	Pole/Sapling	5							iii. Balsam iii regen cover is locally nigh, but averages out to low.
	Balsam Fir	2	Pole	6							
	Red Maple	3	Pole/Log	8							
No	rthern White Cedar	65	Log/Pole	12	125						
4	6220 - A	lder/willow		Nonsto	cked	1.3	l	Jnspecified	No		Willow and tag alder within the cleared powerline corridor. Vandercook Creek crosses through.
5	6220 - A	lder/willow		Nonsto	cked	1.4	l	Jnspecified	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.



Stand Level 4	Cover Type	s	ize De	nsity	Acres Stand	Age BA	A Range	Managed	Site	General Comments
6 6117 - Lowlar	d Deciduous oniferous	, Mixed Pole	timber	· Mediur	n 60.4 59	9	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	Age	Sub-Canopy S	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
Red Maple	47	Pole/Sap/Log	8	59	White Pin	ie	Medium	Variable	Sapling	ground bordering L3-types has mostly sapling cover. Holes in the cano
White Pine	15	Log/Pole/XLog	14	81	Michigan H	olly	Medium	5 - 10 feet	Tall Shrub	have locally high understory cover in ilex, tag alder, WP & BF. Two-
Paper Birch	10	Pole/Sapling	6		Balsam F	ïr	Medium	Variable	Sapling	thirds 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, the
Quaking Aspen	5	Pole	7		Red Mapl	е	Low	10 - 20 feet	Sapling	likely involved chainsaw felling some of the RM, PB & aspen. The parti
Balsam Fir	5	Pole	6		Tag Alde	r	Low	5 - 10 feet	Tall Shrub	cutting specs applied across part of the stand created two broad age
Jack Pine	3	Log/Pole	12							classes in the deciduous species. The RM 1st age is based on the 196 FTP record. The RM 2nd age was on the residual small saw. The
Northern White Ceda	r 5	Log	13							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
7 4319 - Mix	ed Upland Fo	prest S	Sapling	Poor	6.3 12	2 Ir	nmature	N/A		saturated ground. Phragmites was found scattered along the skid rout that crosses through from stand 9 to stand 11. Merch stems were harvested in 2012 (#026-07). Split off from previous
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy S	Species	Density	Avg. Height	Size	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.
White Pine	20	Sapling	1		Tag Alde		Trace	5 - 10 feet	Tall Shrub	
Red Pine	10	Sapling	1		Serviceberry (Ju	neberry)	Trace	10 - 20 feet	Tall Shrub	
Black Cherry	2	Pole	8		Black Che	rry	Medium	Variable	Tall Shrub	
White Pine	3	Log	16		Chokeber	ry	Medium	< 5 feet	Tall Shrub	
Northern Pin Oak	15	Sapling	1							
1401tillolli I III Odit	10	Sapility	1							
Red Maple	25	Sapling	1	12						
				12						
Red Maple	25	Sapling	1							

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Stand	Level 4 Co	ver Type	s	ize De	nsity	Acres Stand Age B.	A Range	Managed S	Site	General Comments			
9	4310 - Pin	e, Oak Mi	x S	Sapling	Poor	8.2 12 li	mmature	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-Canopy Species	Density	Avg. Height	Size	a patchy, diverse mix of pine, oak, aspen, spruce & fir. Most of the n pole residual was WP-RP. Passed at re-inventory with 587 TPA sections.			
	Red Pine	5	Sapling/Pole	1		Black Cherry	Medium	5 - 10 feet	Tall Shrub	regen & 660 TPA deciduous <6 ft tall that have good potential to recruit			
	Bigtooth Aspen	10	Sapling	1	12	Northern Pin Oak	Trace	< 5 feet	Seeding	(deer browse currently very light). In addition, there was 293 TPA BC.			
	Quaking Aspen	5	Sapling	1		Tag Alder	Trace	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			
	Balsam Fir	5	Sapling	1		Balsam Fir	Low	< 5 feet	Seeding	middle. Two small illegal food plots were created in the E1/2; looks like			
	Black Spruce	5	Sapling/Pole	1		Chokeberry	Trace	< 5 feet	Tall Shrub	they were burned and then seeded with forage cover.			
	White Pine	20	Sapling/Pole	2		Witch Hazel	Low	5 - 10 feet	Tall Shrub				
	Red Maple	5	Sapling	1									
	Jack Pine	20	Sapling	1	12								
١	Northern Pin Oak	25	Sapling	1	12								
10	122 - Road	/Parking L	ot 1	Nonsto	cked	9.8 Uı	nspecified	No		Vandercook Road, the snowmobile trailhead parking lot, and a portion of the powerline corridor with sandy two-tracks.			
11	42200 - Natur			awtimb			81-110	N/A		Natural mixed pine stand stand wraps around the snowmobile trail parking lot and access road. The stand is upland overall, with transition			
	Canopy Species		Size Class	DBH		Sub-Canopy Species	Density	Avg. Height	Size	ground on all margins except against stand 12. Cover is majority WP,			
	Red Pine	5	Log/Pole/XLog		105	White Pine	Medium	Variable	Sapling	with JP, RM, RP & black spruce, and trace amounts of oak, black cherry, cedar & aspen. The JP is largely overmature. A few xlog WP rim the			
	Black Cherry	1	Pole	7		Balsam Fir	Low	Variable	Sapling	south edge.			
No	rthern White Cedar	1	Log	13		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub				
	Balsam Fir	2	Pole	7		Witch Hazel	Low	5 - 10 feet	Tall Shrub				
	Jack Pine	15	Log/Pole	10		Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub				
	White Pine	60	Log/XLog/Pole		83								
	Black Spruce	6	Pole	8									
	Red Maple	10	Pole/Log	8									
12	42220 - Natu	ral Jack P	ine Po	oletimb	er Wel	23.7 51	81-110	N/A		Most of the stand was harvested in 1973 (#019-73), cutting JP two			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	sticks+ and merch RM-O. Excluded from the harvest area were a narrow strip of state land on the west side of the powerline corridor, a narrow			
	Balsam Fir	1	Pole/Log	7		Northern Pin Oak	Medium	Variable	Sapling	strip of mature oak & JP along the stand's SE edge, & the poly N of			
	Red Maple	2	Pole/Sap/Log	7		White Pine	Low	Variable	Sapling	Vandercook Rd. The stand's 1st age was set to the harvest but the partial cutting specs left a 2nd age class of now overmature JP & oak			
		20	Pole/Sap/Log	7		Red Maple	Low	Variable	Sapling				
1	Northern Pin Oak	20	Pole/Sap/Log	/						that couldn't be reflected in the canopy data due to a MiFI limitation. RP			
	Northern Pin Oak Bigtooth Aspen	20	Log/Pole	16		Northern Pin Oak	Medium	< 5 feet	Seeding	that couldn't be reflected in the canopy data due to a MiFI limitation. RP was interplanted in the stand's NW. WP increases moving downhill to			
						Northern Pin Oak	Medium	< 5 feet	Seeding	was interplanted in the stand's NW. WP increases moving downhill to the east. Well-developed NPO understory gives way to more RM in the			
	Bigtooth Aspen	2	Log/Pole	16	61	Northern Pin Oak	Medium	< 5 feet	Seeding	was interplanted in the stand's NW. WP increases moving downhill to			



Stand	Level 4 Cover Type	Size Density	Acres Stand Age B	A Range	Managed \$	Site	General Comments
13	6220 - Alder/willow	Nonstocked	13.4 U	nspecified	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 Species	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
			Red Maple	Trace		Seeding	conditions did not improve enough to allow for either. Regen passed at
			Willow spp.	Medium	5 - 10 feet	Tall Shrub	re-inventory with 1408 TPA of secure regen & an additional 990 TPA that
			Black Spruce	Low		Sapling	didn't meet minimum height standards but are likely to recruit (current deer browse is very low). Recordable tree cover (>3 ft tall) hasn't
			White Pine	Low	< 5 feet	Sapling	reached 25% yet so the stand still types out as lowland shrub. Ground
			Balsam Poplar	Trace	< 5 feet	Sapling	gets drier in the SW peninsula. A small illegal food plot was created
			Quaking Aspen	Low	< 5 feet	Sapling	down there; looks like it was burned, then seeded with forage cover. Phragmites was found scattered along the main skid route in the W1/2
			Tag Alder	Medium	5 - 10 feet	Tall Shrub	and there is a dense, long-established patch on the center-S edge that
			Balsam Fir	Trace	< 5 feet	Sapling	extends into stand 33.
			Red Maple	Low	< 5 feet	Sapling	
			Paper Birch	Low	5 - 10 feet	Sapling	
14	6220 - Alder/willow	Nonstocked	11.2 U	nspecified	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 U	nspecified	No		Merch stems were harvested in 2012 (#026-07). A portion of the harvest
			Sub-Canopy Species	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 (Juneberry)	Low		Tall Shrub	scattered along the main skid route.
			Chokeberry	Trace		Tall Shrub	
			Michigan Holly	Low	5 - 10 feet	Tall Shrub	
			Balsam Fir	Low		Sapling	
			Serviceberry (Juneberry)	Low		Tall Shrub	
			Northern Pin Oak	Trace		Seeding	
			Black Spruce	Trace		Sapling	
			Serviceberry (Juneberry)	Low		Tall Shrub	
			Red Maple	Trace		Pole	
			Serviceberry (Juneberry)	Low		Tall Shrub	
			White Pine	Low		Sapling	
			Paper Birch	Trace		Pole	
			Serviceberry (Juneberry)	Low		Tall Shrub	
			Serviceberry (Juneberry)	Low		Tall Shrub	

Report 7 – Stands

Compartment: 65
Year of Entry: 2026



Stand	d Level 4 C	over Type	S	ize De	nsity	Acres Stand	d Age B	A Range	Managed 9	Site	General Comments			
16	6117 - Lowland Con	Deciduous, iferous	, Mixed Pole	etimbe	r Mediui	m 7.3 5	9	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	l Age	Sub-Canopy S	Species	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 component (black spruce, balsam fir, WP & cedar). Stand age was set			
No	orthern White Cedar	2	Log	13		Black Spru	uce	Low	Variable	Sapling				
	Paper Birch	5	Pole	6		White Pir	ne	Low	Variable	Sapling	to the cut, but there is a minority component of older stems that were			
	Balsam Poplar	10	Pole	7		Tag Alde	er	Low	5 - 10 feet	Tall Shrub	residual from the cut.			
	Balsam Fir	10	Pole	6		Michigan H	Holly	Low	5 - 10 feet	Tall Shrub	ub			
	Red Maple	40	Pole/Sapling	6	59	Balsam F	Fir	Medium	Variable	Sapling				
	Black Spruce	10	Pole	6							-			
	Quaking Aspen	20	Pole	7										
17	6124 - Lowla	and Spruce	-Fir Pole	timbe	r Mediui	m 4.7 3	4	51-80	N/A		Feb 2014 field comments: Small blocks of cedar were final harvested between 1986-1990 (#024-86, #009-89 & #059-89). Regenerated to Q/P/E with no observed cedar regen. Balsam fir and black spruce rege			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy S	Species	Density	Avg. Height	Size				
	Black Spruce	20	Pole/Sapling	5		Willow sp	pp.	Low	5 - 10 feet	Tall Shrub	is heaviest in the west, giving way to more balsam poplar in the east.			
	White Pine	3	Pole/Sapling	6		Tag Alde	er	Low	10 - 20 feet	Tall Shrub				
	Tamarack	7	Sapling/Pole	3		Balsam F	Fir	Medium	5 - 10 feet	Sapling				
	Balsam Poplar	35	Pole/Sapling	6	34						-			
	Paper Birch	3	Sapling/Pole	3										
	Red Maple	2	Sapling	3										
	Balsam Fir	30	Sapling	3										
19	6220 - A	lder/willow	1	Nonsto	ocked	3.2	Uı	nspecified	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	, ,	Nonsto	ocked	2.5	Uı	nspecified	No		Lowland stretch of cleared powerline corridor.			
21	4133 - Aspe	en, Mixed P	ine Sa	awtimb	er Well	28.2 6	3	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-Canopy S	Species	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			
	Red Maple	15	Log/XLog/Pole	_	85	Tag Alde		Low	5 - 10 feet	Tall Shrub	stand resulted in two main age classes in the deciduous species. The stand's first age was set to the cutting record, and the second age was			
	White Pine	20	Log/Pole/XLog			Balsam F	Fir	High	Variable	Sapling	estimated based on the post-harvest residual RM cored in two adjacent			
	Balsam Fir	10	Pole/Log/Sap	7		White Pir	ne	Low	Variable	Sapling	stands that were part of the same harvest. The stand is upland overall			
	Bigtooth Aspen	35	Log/Pole	11	63	Michigan H		Trace	5 - 10 feet	Tall Shrub	but there is low ground in the SE, on the stand margins, along the 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			
	Paper Birch	1	Log/Pole	11							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			
	Black Spruce	4	Pole/Log	8										
											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	1	Nonsto	ocked	3.9	Uı	nspecified	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.			



	Level 4 Co	over Type	Si	20 00	iloity	Acres Stand	Age DA Ka	unge	Managed S	Jile .	General Comments
23	6112 - Low	vland Aspe	en Sa	wtimb	er Well	29.3 53	81-1	110	N/A		A manual habitat cut (FTP G-61) was carried out in 1971 across the
-	Canopy Species	% Cove	Size Class	DBH	Age	Sub-Canopy Sp	pecies De	ensity	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
	Red Pine	2	XLog/Log/Pole	20		White Pine	e M	/ledium	Variable	Sapling	commercially in 1970 (#048-68). The partial cutting specs resulted in tw
	Jack Pine	3	Pole/Log	9	59	Black Cherr	ry	Low	Variable	Tall Shrub	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.
	White Pine	12	Pole/Log/XLog	9		Michigan Ho	olly	Low	5 - 10 feet	Tall Shrub	The ground is a lowland-upland mosaic with cradle knoll topo & flooded
	Red Maple	20	Log/Pole/XLog	12	93	Balsam Fir	r	Low	Variable	Sapling	tag alder/ilex swales. The overmature aspen component occupies
	Black Cherry	1	Pole	8				'			marshy ground by stand 32's stream corridor and is breaking up. The few rows of JP that extend into this stand were part of stand 30's 1965
	Balsam Fir	3	Pole/Log	8							plantation. There are traces of legacy RP and oak on the drier ground
Е	Bigtooth Aspen	5	Log/Pole	12							and traces of balsam poplar, tamarack & spruce on the lower ground.
	Paper Birch	2	Log/Pole	11							WP increases moving SE. An intermittent stream crosses the SE end
	Balsam Poplar	2	Pole	7							
24	6220 - Al	lder/willow	ı N	lonsto	ocked	2.1	Unspe	ecified	No		Jan 2014 edge comments: Tag alder, willow, leatherleaf & ilex, with sparse E/Q to the west.
		6220 - Alder/willow Nonstocked 3.0 Unspecified									
25	6220 - Al	lder/willow	ı N	lonsto	ocked	3.0	Unspe	ecified	No		Feb 2014 edge comments: Tag alder & ilex with E/Q colonizing. Not ye enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall.
	6220 - Al 4133 - Aspe				er Well	3.0 56.1 63		ecified	No N/A		spruce & tamarack to call Forested overall. A manual habitat cut (FTP G-61) was carried out in 1971 across the
26		n, Mixed F		wtimb			111-			Size	enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall. 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
26	4133 - Aspe	n, Mixed F	Pine Sa	wtimb	er Well	56.1 63	111-	-140	N/A	Size Tall Shrub	enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall. 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 stand's East 13 acres were cut commercially in 1970 (#048-68). The partial cutting specs applied across parts of the stand resulted in 3 main
26	4133 - Aspe Canopy Species	n, Mixed F	Pine Sar	wtimb DB F	er Well	56.1 63 Sub-Canopy Sp	111- pecies De	-140 Pensity	N/A Avg. Height		enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall. 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 stand's East 13 acres were cut commercially in 1970 (#048-68). The 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
26	4133 - Aspe Canopy Species Paper Birch	n, Mixed F % Cove	Pine Sar r Size Class Log/Pole	wtimb DBH	er Well	56.1 63 Sub-Canopy Sp Black Cherr	111- pecies De	-140 ensity	N/A Avg. Height Variable	Tall Shrub	enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall. 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 stand's East 13 acres were cut commercially in 1970 (#048-68). The 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.
26	4133 - Aspe Canopy Species Paper Birch Quaking Aspen	n, Mixed F % Cover	Pine Sar T Size Class Log/Pole Log/Pole	wtimb DBH 12 10	er Well Age 54	56.1 63 Sub-Canopy Sp Black Cherr Michigan Ho	111- pecies De ry - billy - M M M M M M M M M M M M M M M M M M M	-140 Pensity Trace	N/A Avg. Height Variable 5 - 10 feet	Tall Shrub	enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall. 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 stand's East 13 acres were cut commercially in 1970 (#048-68). The 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
26	4133 - Aspe Canopy Species Paper Birch Quaking Aspen Red Maple	n, Mixed F ** Cover 1 10 20	Pine Sate Class Log/Pole Log/Pole Log/Pole/XLog	DBF 12 10 12	er Well Age 54	56.1 63 Sub-Canopy Sp Black Cherr Michigan Ho White Pine	pecies Derry - billy - M	-140 Pensity Trace Trace Medium	N/A Avg. Height Variable 5 - 10 feet Variable	Tall Shrub Tall Shrub Sapling	enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall. 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 stand's East 13 acres were cut commercially in 1970 (#048-68). The 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
26	4133 - Aspe Canopy Species Paper Birch Quaking Aspen Red Maple Black Cherry	n, Mixed F % Cover 1 10 20 1	Pine Sar Size Class Log/Pole Log/Pole Log/Pole/XLog Pole	DBH 12 10 12 7	er Well Age 54 88	56.1 63 Sub-Canopy Sp Black Cherr Michigan Ho White Pine Tag Alder	pecies De ry - billy - M	-140 Pensity Trace Trace Medium Low	N/A Avg. Height Variable 5 - 10 feet Variable 10 - 20 feet	Tall Shrub Tall Shrub Sapling Tall Shrub	enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall. 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 stand's East 13 acres were cut commercially in 1970 (#048-68). The 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
26	4133 - Aspe Canopy Species Paper Birch Quaking Aspen Red Maple Black Cherry Bigtooth Aspen	n, Mixed F % Cover 1 10 20 1 40	Pine Sar r Size Class Log/Pole Log/Pole Log/Pole/XLog Pole Log/Pole	wtimb DBH 12 10 12 7 11	er Well Age 54 88	56.1 63 Sub-Canopy Sp Black Cherr Michigan Ho White Pine Tag Alder Witch Haze	pecies De ry - billy - M	-140 Pensity Trace Trace Medium Low Trace	N/A Avg. Height Variable 5 - 10 feet Variable 10 - 20 feet 5 - 10 feet	Tall Shrub Tall Shrub Sapling Tall Shrub Tall Shrub	enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall. 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 stand's East 13 acres were cut commercially in 1970 (#048-68). The 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
26	4133 - Aspe Canopy Species Paper Birch Quaking Aspen Red Maple Black Cherry Bigtooth Aspen thern White Cedar	n, Mixed F % Cover 1 10 20 1 40 1	Pine Sar r Size Class Log/Pole Log/Pole Log/Pole/XLog Pole Log/Pole Log/Pole	DBH 12 10 12 7 11 15	er Well Age 54 88	56.1 63 Sub-Canopy Sp Black Cherr Michigan Ho White Pine Tag Alder Witch Haze	pecies De ry - billy - M	-140 Pensity Trace Trace Medium Low Trace	N/A Avg. Height Variable 5 - 10 feet Variable 10 - 20 feet 5 - 10 feet	Tall Shrub Tall Shrub Sapling Tall Shrub Tall Shrub	enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall. 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 stand's East 13 acres were cut commercially in 1970 (#048-68). The 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
(E	4133 - Aspe Canopy Species Paper Birch Quaking Aspen Red Maple Black Cherry Bigtooth Aspen thern White Cedar White Pine	n, Mixed F **Cover 1	Pine Sar r Size Class Log/Pole Log/Pole/XLog Pole Log/Pole Log/Pole Log/Pole Log/Pole/XLog	DBH 12 10 12 7 11 15 14	er Well Age 54 88	56.1 63 Sub-Canopy Sp Black Cherr Michigan Ho White Pine Tag Alder Witch Haze	pecies De ry - billy - M	-140 Pensity Trace Trace Medium Low Trace	N/A Avg. Height Variable 5 - 10 feet Variable 10 - 20 feet 5 - 10 feet	Tall Shrub Tall Shrub Sapling Tall Shrub Tall Shrub	enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall. 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 stand's East 13 acres were cut commercially in 1970 (#048-68). The 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
26	4133 - Aspe Canopy Species Paper Birch Quaking Aspen Red Maple Black Cherry Bigtooth Aspen thern White Cedar White Pine Red Pine Balsam Fir	n, Mixed F % Cover 1 10 20 1 40 1 20 20 2	Pine Sar T Size Class Log/Pole Log/Pole/XLog Pole Log/Pole Log/Pole Log Log/Pole/XLog Log/Pole/XLog Pole/Log	wtimb DBH 12 10 12 7 11 15 14 14	er Well Age	56.1 63 Sub-Canopy Sp Black Cherr Michigan Ho White Pine Tag Alder Witch Haze	pecies De ry - billy - M	-140 Pensity Trace Trace Medium Low Trace Medium	N/A Avg. Height Variable 5 - 10 feet Variable 10 - 20 feet 5 - 10 feet	Tall Shrub Tall Shrub Sapling Tall Shrub Tall Shrub	enough cover in the large sapling/small pole balsam fir, RM, PB, black spruce & tamarack to call Forested overall. 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 stand's East 13 acres were cut commercially in 1970 (#048-68). The 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



and	Level 4 Co	ver Type	Si	ze De	nsity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments				
0			Pine Saw	timber	Medium	21.6	71	51-80	N/A		Cultivated fields visible on the 1938 photos, tax reverted in 1939. WP had				
(Canopy Species	0 171 7 0 0		Size	been seeding in when most of the stand was trenched & planted to JP in										
	Paper Birch	1	Pole	7		Re	ed Maple	High	Variable	Sapling	1965. The field became increasingly saturated after drain maintenance ended. Ground gets mucky in the stand's S1/2 & adjacent to the L3 stands. Increasing mortality in the planted JP has shifted the stand out of the "planted" category. The lower ground has majority WP cover; elsewhere WP is mixed into the JP plantation. Heavy RM-WP understory				
	White Pine	45	Log/Pole/XLog	15	71	Blac	ck Cherry	Low	5 - 10 feet	Tall Shrub					
Е	Balsam Poplar	1	Pole/Sapling	6		WI	nite Pine	Medium	Variable	Sapling	tands. Increasing mortality in the planted JP has shifted the stand out				
	Black Cherry	1	Pole	7		Ta	ag Alder	Medium	10 - 20 feet	Tall Shrub					
C	Quaking Aspen	1	Log/Pole	12				'							
	Jack Pine	45	Pole/Log	9	59						Open-grown form is common in the WP.				
	Tamarack	1	Log/Pole	10											
	Red Maple	5	Pole/Log	8											
1		ferous	,		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 drier and wetter inclusions, cut by drainage swales. The stand has pole/cull				
(Canopy Species	% Cover		_	Age		nopy Species		Avg. Height	Size	saw RM with mixed conifer, aspen & PB associates. Species distribution				
	Balsam Fir	10	Pole/Sap/Log	6			nite Pine	Medium	Variable	Sapling	& canopy closure vary widely with the ground conditions. The driest				
	Paper Birch	5	Pole/Sap/Log	7			ck Spruce	Low	Variable	Sapling	ground has less RM, more aspen & 75-100% canopy closure. The majority intermediate ground has 50-75% canopy cover and a higher				
	Jack Pine	3	Log	12			ag Alder	Low	5 - 10 feet	Tall Shrub	proportion in RM, WP, balsam fir, black spruce & PB. The lowest ground				
	White Pine	12	Log/Pole/XLog	14	84		nigan Holly	Low	5 - 10 feet	Tall Shrub	adjacent to L-types and the cedar swamp tends to have sparser cover &				
	Black Spruce	10	Pole/Log/Sap	8		Ва	llsam Fir	Medium	Variable	Sapling	more lowland brush. JP & a trace of hybridized oak also occur within the stand. The partial cutting spec's applied across parts of the stand				
В	Bigtooth Aspen	10	Pole/Log	8	63						resulted in two main age classes across the deciduous species. The				
	Red Maple	40	Pole/Log/Sap	8	63						stand's first age was set to the cutting record, but there is a significant				
C	Quaking Aspen	10	Pole	7	63						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.				
2	629 - Mixed non	-forested v	wetland N	Nonsto	cked	57.7	1	Unspecified	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 dam 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 point is for glossy buckthorn.				

Report 7 - Stands

6120 100							ge	Managed S		General Comments				
6120 - LOV	wland Ceda	ar Po	letimbe	er Well	220.6 114	141-17	' 0	N/A		Jan 2014 field comments: Cedar-dominated conifer swamp that had a				
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy S _I	pecies Den	sity	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"				
Red Maple	7	Log/Pole/Sap	10		Tag Alder	Med	dium	10 - 20 feet	Tall Shrub	commercial cuttings in the 1950's, 60's & late1980's, & ~12 acres cut i				
Balsam Fir	5	Pole/Sapling	6		Black Sprud	ce Lo	OW	< 5 feet	Sapling	2012 (#026-07, split off as stand 13). Operations on #026-07 were				
nern White Cedar	70	Pole/Log/Sap	8	114	Balsam Fi	r Med	dium	Variable	Sapling	suspended due to excessive rutting. The contract was extended 5x's allow for harvest completion or at least rehab of the ruts, but ground				
Black Spruce	10	Pole/Sapling	7							conditions did not improve enough to allow either. Sale was closed				
Tamarack	3	Pole/Sap/Log	7							incomplete in 2016. The harvests that were large enough to meet				
White Pine	2	XLog/Log	20							minimum stand mapping rules & that resulted in covertype conversion were separated out as unique stands. Cuts that did not meet those				
Paper Birch	3	Pole	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.				
6220 - A	lder/willow	1	Nonsto	cked	8.2	Unspecif	fied	No		Jan 2014 edge comments: Part of a cultivated field on the 1938 photo tax reverted in1939. Trenched & planted to JP in 1965 but the plantin largely failed on this low ground. Tag alder & salix with scattered WP saw and small clumps of quaking aspen, balsam poplar & RM.				
6220 - A	lder/willow	1	Vonsto	cked	5.1	Unspecif	fied	No		Feb 2014 edge comments: Willow and tag alder with some cattail. Balsam fir, paper birch and RM encroaching.				
4136 - Aspen	, Mixed Co	nifer Sa	wtimbe	er Well	29.4 63	111-14	111-140	N/A		Merch aspen, RM & paper birch were cut across most of the stand by				
anopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy S _I	pecies Den	sity	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 that				
Red Maple	20	Log/XLog/Pole	12	84	Balsam Fi	r Hi	igh	Variable	Sapling	cuts across. Beaver had reduced the aspen along the creeks; those				
Paper Birch	2	Log	12		White Pine	e Med	dium	Variable	Sapling	RMZs have more fir & WP. The partial cutting spec's applied across				
uaking Aspen	45	Log/Pole	11	63	Tag Alder	Lo	wC	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				
Balsam Fir	15	Pole/Log/Sap	7		Black Cheri	ry Tra	ace	Variable	Tall Shrub					
White Pine	5	Log/XLog	15							Combined full fir-WP understory has been recruiting into the canopy a				
igtooth Aspen	13	Log/Pole	14	63						the QA drops out.				
	Balsam Fir nern White Cedar Black Spruce Tamarack White Pine Paper Birch 6220 - A 4136 - Aspen Canopy Species Red Maple Paper Birch Black Spruce Tamarack White Pine Paper Birch Black Spruce Tamarack Additional Species Red Maple Paper Birch Black Spen	Balsam Fir 5 nern White Cedar 70 Black Spruce 10 Tamarack 3 White Pine 2 Paper Birch 3 6220 - Alder/willow 4136 - Aspen, Mixed Co Canopy Species % Cover Red Maple 20 Paper Birch 2 Paper Birch 3 White Pine 5	Balsam Fir 5 Pole/Sapling Deern White Cedar 70 Pole/Log/Sap Black Spruce 10 Pole/Sapling Tamarack 3 Pole/Sap/Log White Pine 2 XLog/Log Paper Birch 3 Pole 6220 - Alder/willow I 4136 - Aspen, Mixed Conifer Sa Canopy Species % Cover Size Class Red Maple 20 Log/XLog/Pole Paper Birch 2 Log Balsam Fir 15 Pole/Log/Sap White Pine 5 Log/XLog	Balsam Fir 5 Pole/Sapling 6 Polern White Cedar 70 Pole/Log/Sap 8 Black Spruce 10 Pole/Sapling 7 Tamarack 3 Pole/Sap/Log 7 White Pine 2 XLog/Log 20 Paper Birch 3 Pole 6 6220 - Alder/willow Nonsto 4136 - Aspen, Mixed Conifer Sawtimber Canopy Species % Cover Size Class DBH Red Maple 20 Log/XLog/Pole 12 Paper Birch 2 Log 12 Palaking Aspen 45 Log/Pole 11 Balsam Fir 15 Pole/Log/Sap 7 White Pine 5 Log/XLog 15	Balsam Fir 5	Balsam Fir 5 Pole/Sapling 6 Black Spruce Black Spruce 10 Pole/Log/Sapling 7 Tamarack 3 Pole/Sap/Log 7 White Pine 2 XLog/Log 20 Paper Birch 3 Pole 6 6220 - Alder/willow Nonstocked 5.1 4136 - Aspen, Mixed Conifer Sawtimber Well 29.4 63 Canopy Species % Cover Size Class DBH Age Sub-Canopy S Red Maple 20 Log/XLog/Pole 12 84 Paper Birch 2 Log 12 White Pine Balsam Fir 15 Pole/Log/Sap 7 White Pine White Pine 5 Log/XLog 15 Black Cher	Balsam Fir 5	Balsam Fir 5	Balsam Fir 5	Balsam Fir 5 Pole/Sapling 6 Black Spruce Low < 5 feet Sapling Balsam Fir White Cedar 70 Pole/Log/Sap 8 114 Balsam Fir Medium Variable Sapling Tamarack 3 Pole/Sap/Log 7 White Pine 2 XLog/Log 20 Paper Birch 3 Pole 6 Sapling				



Stand	d Level 4 Co	over Type	S	ize De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments		
38	4199 - Other Mixed	d Upland I	Deciduous Sa	awtimb		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	% Cove	Size Class	DBH	Age	Sub-Can	nopy Species	Density	Avg. Height	Size	swamp. Most of the BTA (overmature) and oak is concentrated on the		
	Bigtooth Aspen	20	Log/XLog	16		Bal	sam Fir	Medium	Variable	Sapling	higher ground west of the snowmobile trail. On the flats east of the		
Bla	ck/Red (Hybrid) Oak	20	Log/Pole/XLog	14	106	Wh	ite Pine	Medium	Variable	Sapling	snowmobile trail, canopy dominance shifts from oak to more RM & paper		
	White Pine	5	Pole/Log/XLog	8		Witc	ch Hazel	Low	5 - 10 feet	Tall Shrub	birch. Occasional legacy WP & RP. The oak & paper birch have been dropping out of the canopy. The RM is starting to top-die. WP-fir		
	Red Maple	45	Pole/Log	8	102	Wh	ite Oak	Low	Variable	Sapling	understory increases to full cover moving toward the swamp. This stand		
	White Oak	5	Log/Pole/XLog	14		Hazelnı	ut (Beaked)	Trace	5 - 10 feet	Tall Shrub	includes a narrow strip of forested state land on the west side of the		
	Balsam Fir	3	Pole	7									
	Paper Birch	2	Pole/Log	8									
39	6220 - A	lder/willow	, I	Nonsto	cked	18.5	l	Inspecified	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	ı	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 Asp	en Po	oletimb	er Wel	l 51.5	48	111-140	N/A		Merch stems were harvested across most of the stand in 1976 (#016-		
	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Can	nopy Species	Density	Avg. Height	Size	75A), then some low-density residual was chainsaw felled in 1979 (FTP		
	Red Maple	5	Pole/Sap/Log	6			ite Pine	Low	5 - 10 feet	Sapling	W-178). A narrow buffer was left uncut along Roy Creek. Stand age was set to the commercial harvest. Regenerated to quaking aspen and		
	Quaking Aspen	65	Pole/Log	9	48	Blac	k Cherry	Trace	Variable	Tall Shrub	balsam fir, with minor associates (BTA, WP, JP, RM, balsam poplar &		
	Bigtooth Aspen	3	Pole/Log	8			sam Fir	High	Variable	Sapling	NWC, tamarack). The heaviest fir canopy cover is within the Roy Creek		
	Balsam Fir	20	Pole	6		Tag	g Alder	Low	5 - 10 feet	Tall Shrub	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		
	Jack Pine	1	Pole	8							intermediate to low, with a dry ridge in the middle where the BTA is. A		
	White Pine	4	Log/XLog/Pole	15							square clearing in the stand's north-center wasn't big enough to delineate		
	Balsam Poplar	2	Pole/Log/Sap	7							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	etimbei	Mediu	m 98.7	27	1-50	N/A		Feb 2014 field commetns: Aspen-fir cover was final harvested except for		
	Canopy Species	% Cove	Size Class	DBH	Age	Sub-Car	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		
	Balsam Fir	15	Pole/Sapling	5	_	Will	ow spp.	Low	5 - 10 feet	Tall Shrub			
	Northern Pin Oak	2	Pole/Sap/Log	7		Wild	d Raisin	Trace	5 - 10 feet	Tall Shrub	the aspen clones are scattered along the stand's east side; birch picks up		
	Black Spruce	10	Sapling/Pole	4		Blac	k Cherry	Trace	Variable	Tall Shrub	there also. The more saturated interior has sparse fir, spruce & WP		
	Tamarack	3	Sapling/Pole/Log	g 4			g Alder	Medium	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			gan Holly	Medium	5 - 10 feet	Tall Shrub	50-75%, typically where the ground is wettest and driest, respectively.		
	White Pine	5	Sapling/Pole	2					1	1	The stand is dissected with linear flooded L3 swales (see 1998 DOQs).		
	Paper Birch	6	Sapling	3							2024 update: Cover has edged past the 30% pole benchmark to be called Pole overall, mostly due to open-grown conditions. Beaver are		
	Red Pine	2	Pole/Sap/Log	5							continuing to reduce the aspen around stand 39.		
	Bigtooth Aspen	15	Sapling/Pole	3	27								
	Quaking Aspen	15	Sapling/Pole	4	27								
	Jack Pine	17	Pole/Sapling	5	27								

Nonstocked

2.4

Compartment: 65 Year of Entry: 2026



Stand	I Level 4 C	over Type	;	Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments			
43				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				10	Re	d Maple	Trace	< 5 feet	Seeding	& 1,455 O-C TPA. Was release sprayed in 2015. Yr 3 regen survey			
I			Sapling	1	9	Blac	k Cherry	Trace	10 - 20 feet	Tall Shrub	found 750 RP & 1,698 O TPA. TSI was considered, but TMS eval in			
			Sapling	2		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	ple P	oletimbe	er Poor	por 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			
	Canopy Species		Size Class	DBH			nopy Species		Avg. Height	Size	in 1976 (#016-75A), then low-density residual was chainsaw felled in			
	Bigtooth Aspen	6	Pole	7	48		sam Fir	Medium	Variable	Sapling	1979 (FTP W-178). Stand age set to the commercial harvest. The terrain is pock-marked with dozens of sub-acre lowland brush inclusions (see			
	Balsam Fir	25	Pole/Sapling	5	48	Ta	g Alder	Medium	5 - 10 feet	Tall Shrub				
	Tamarack	5	Pole/Sap/Log				Buckthorn	Trace	10 - 20 feet	Tall Shrub	intermediate to low ground. A sketchy trail road runs up the stand's east			
	White Pine	10	Log/XLog/Pole	e 16		Michi	gan Holly	Medium	5 - 10 feet	Tall Shrub	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			
	Jack Pine	4	Log/Pole	10			low spp.	Low	5 - 10 feet	Tall Shrub	increases on the lower ground. Marginal RM occurs throughout. The			
	Quaking Aspen	10	Pole/Sapling	7	48		ntain Holly	Medium	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			
	Red Maple	30	Pole/Sapling	5	48	Lea	therleaf	Trace	< 5 feet	Tall Shrub				
	Northern Pin Oak	1	Pole/Sapling	6		Wh	ite Pine	Low	Variable	Sapling	category.			
	Paper Birch	3	Sapling/Pole	4										
	Black Spruce	5	Pole/Sapling	6										
45	310 - Herbac	aceous Openland		Nonsto	cked	10.6	.6 U	Unspecified	No		Cleared powerline corridor.			
46	6220 - A	Alder/willow		Nonsto	cked	5.3	I	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

47

Cleared corridor of Goddard Road and overhead powerline. Lowland ground beneath powerline.

Grayling Mgt. Unit



Stand Level 4	Cover Type	s	ize De	nsity	Acres	Stand Age B	BA Range	Managed \$	Site	General Comments	
48 6113 - L	owland Mapl	le Saw	rtimbe	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	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	transition ground between the uplands and the cedar swamp. Associates include paper birch, WP, JP, fir, and small amounts of oak, BTA, RP &	
Red Pine	2	Log/XLog	14		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub		
Bigtooth Aspen	5	Log	14		Wł	nite Pine	Medium	Variable	Sapling	the cedar swamp edge. 2024 update: Top mortality starting in the RM,	
Northern Pin Oak	5	Log	15		Ва	lsam Fir	High	Variable	Sapling	JP has been dropping out.	
Balsam Fir	5	Pole	6		Mich	igan Holly	Low	5 - 10 feet	Tall Shrub		
White Pine	10	Log/Pole/XLog	14					ı			
Red Maple	60	Log/Pole	11	102							
Jack Pine	5	Log	11								
Northern White Cedar	. 3	Log/Pole	10								
Paper Birch	5	Log/Pole	12								
4310 - F	Pine, Oak Miz % Cover					36 nopy Species	1-50 Density	N/A Avg. Height	Size	Feb 2014 field comments: JP-O stand was final harvested in 1988 (#006 87). Regen from the cut is mainly JP and oak. Open-grown WP & RP are scattered across the stand. Species distribution and stocking are	
Bigtooth Aspen	2	Pole/Sapling	5	36		ern Pin Oak	Medium	5 - 10 feet	Sapling	are scattered across the stand. Species distribution and stocking are variable. On the stand's lower slope perimeter, the proportion in oak, WF	
Northern Pin Oak	40	Sapling/Pole	4	36	Northe	thern Pin Oak	Low	< 5 feet	Seeding	& RP increases, as does the canopy closure. BTA occurs along that	
Red Pine	1	Pole/Log	8							dege too. This stand includes a narrow strip of state land on the west side of the powerline corridor that was not within the state harvest; this	
White Pine	7	Pole/Log/Sap	7							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/Sapling	-							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	vetland I	Nonsto	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	1	Nonsto	ocked	1.4	U	Inspecified	No		Feb 2014 edge comments: Tag alder with grey dogwood and colonizing balsam fir.	
52 6220 -	Alder/willow	1	Nonst	ocked	1.0	U	Inspecified	No		Feb 2014 edge comments: Tag alder & salix with colonizing E/Q.	



Stand	Level 4 Co	over Type	S	ize De	nsity	Acres Stand Age	e BA Range	Managed 9	Site	General Comments
53	6112 - Lov	wland Aspe	en Sa	awtimb	er Well	92.6 60	81-110	N/A		The stand was within a large timbersale (#78-60A, est. 390 ac. cut over)
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spec	ies 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
	Balsam Fir	15	Pole/Sap/Log	6		Tag Alder	Low	< 5 feet	Tall Shrub	
	White Pine	5	Log/Pole/XLog	14		Michigan Holly	Low	5 - 10 feet	Tall Shrub	cut due to inaccessibility (wet conditions)". The ground is PArVCo with
	Black Spruce	2	Pole/Log	7		Red Maple	Low	10 - 20 feet	Sapling	drier and wetter inclusions. The terrain is cut with a series of linear swales containing tag alder, ilex & grey dogwood. The lowland brush
	Paper Birch	2	Log/Pole/Sap	10		Balsam Fir	Medium	Variable	Sapling	cover is patchy elsewhere. On the highest ground, fairly complete cutting occurred in the aspen, but the merch cutting specs & incomplete access
I	Bigtooth Aspen	10	Log/Pole	12	60	Black Cherry	Low	Variable	Tall Shrub	
	Jack Pine	3 45 16	Log/Pole	10			,		'	¹ made for a 2nd older age class across most species (cull common in tha residual). 2nd age was on the residual RM; 1st age reflects the post-
(Quaking Aspen		Log/Pole	11	60					harvest regen, including a portion of the RM. In addition to the aspen &
	Red Maple		Log/Pole	13	81					RM, there is patchy representation in balsam fir, PB, WP, JP & black
	Red Maple 16 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
54 55	6220 - A 4125 - Blac	lder/willow		Nonsto	er Well	31.8 36	Unspecified 1-50	No N/A		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. Feb 2014 field comments: JP-O stand was final harvested in 1988 (#00 87). Regen from the harvest is mostly stump-origin oak, with stocky WF
		*								
	Canopy Species		Size Class	_	Age	Sub-Canopy Spec		Avg. Height	Size	JP & RP and some RM. There is a single-stem sapling oak component
	Red Maple	3	Sapling	3	36	Northern Pin Oak		< 5 feet	Seeding	that has potential to recruit. This stand includes a narrow strip of state land on the west side of the powerline corridor that was not within the
	White Pine	10	Pole/Log/Sap	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub	state harvest; the strip includes J3 planted to the KW weave pattern by
	Red Pine	2	Pole	7		White Pine	Low	Variable	Sapling	the USFS and sub-acre portions N & S in pole JP, oak & RP; that cover
N	lorthern Pin Oak	80	Pole/Sapling	6	36					was not factored into the parent stand's data. 2024 update: enough of
	Jack Pine	5	Pole/Sapling	6						the NPO has shifted into the pole class to call the stand Pole overall (>30% cover in poles). Upper crown mortality starting to occur in the stump-origin oak.
56	6220 - A	lder/willow		Nonsto	ocked	1.9	Unspecified	No		Feb 2014 edge comments: Tag alder, salix & grey dogwood. Patch of open marsh behind the old beaver dam.

Report 7 - Stands

Compartment: 65 Year of Entry: 2026



tand	Level 4 Co	over Type	Si	ize De	nsity	Acres Stand Age B	A Range	Managed S	Site	General Comments
57	6117 - Lowland I Coni	Deciduous iferous	, Mixed Sa	wtimbe	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
Nor	thern White Cedar	2	Log/Pole	11		Red Maple	Low	5 - 10 feet	Sapling	to inaccessibility (wet conditions)". The partial harvest spec's partially
	White Pine	5	Log/Pole/XLog	12		Balsam Fir	Medium	Variable	Sapling	applied made for two broad age classes across the deciduous species.
	Tamarack	5	Log/Pole	10		Black Spruce	Low	Variable	Sapling	The stand's first age was set to the harvest, but there is a mature
	Black Spruce	5	Pole/Sapling	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub	component across most species. This ground is lowland overall, with drier inclusions & non-forested wetland swales. The variable, marginal-
	Red Maple	40	Pole/Sap/Log	8	60	Michigan Holly	Medium	5 - 10 feet	Tall Shrub	quality E/Q overstory is majority pole, with log-sized residual scattered
	Jack Pine	5	Log/Pole	12	102					throughout & concentrated in pockets that the logger couldn't access.
	Paper Birch	10	Pole/Sap/Log	6	60					Small aspen clones occupy the drier ground. The understory has diverse lowland shrub cover and patchy E/Q regen. May 2024 update: the
	Balsam Fir	15	Pole	6						ground is liberally cut with flooded swales (see 1998 DOQs). The
	Quaking Aspen	13	Log/Pole	10	60					operable upland patches have marginal cover; the log-sized components
	Quaking Aspen	13	Log/i ole	10	00					residual log RM had to be merged into the dominant immature record &
58		ne, Oak Mi			er Well	14.5 103	81-110	N/A		rules, the 2nd age class of RM could no longer be listed separately; that residual log RM had to be merged into the dominant immature record & the RM 2nd age was applied to the JP canopy record as a surrogate. Part of stand 65's boundary-excluded retention was merged with this stand during treatment closing updates (see Site Condition layer). Feb 2014 field comments: Mixed oak-pine stand on dry south aspect;
58		ne, Oak Mi		letimbe		14.5 103 Sub-Canopy Species	81-110 Density	N/A Avg. Height	Size	rules, the 2nd age class of RM could no longer be listed separately; that residual log RM had to be merged into the dominant immature record & the RM 2nd age was applied to the JP canopy record as a surrogate. Part of stand 65's boundary-excluded retention was merged with this stand during treatment closing updates (see Site Condition layer). Feb 2014 field comments: Mixed oak-pine stand on dry south aspect; steep drop down to cedar swamp and Roy Creek. Short, scrubby oak
58	4310 - Pir	ne, Oak Mi	x Po	letimbe	er Well					rules, the 2nd age class of RM could no longer be listed separately; that residual log RM had to be merged into the dominant immature record & the RM 2nd age was applied to the JP canopy record as a surrogate. Part of stand 65's boundary-excluded retention was merged with this stand during treatment closing updates (see Site Condition layer). Feb 2014 field comments: Mixed oak-pine stand on dry south aspect; 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
58	4310 - Pir Canopy Species	ne, Oak Mi % Cove r	x Po	eletimbe DBH	er Well	Sub-Canopy Species	Density	Avg. Height	Size	rules, the 2nd age class of RM could no longer be listed separately; that residual log RM had to be merged into the dominant immature record & the RM 2nd age was applied to the JP canopy record as a surrogate. Part of stand 65's boundary-excluded retention was merged with this stand during treatment closing updates (see Site Condition layer). Feb 2014 field comments: Mixed oak-pine stand on dry south aspect; 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
58	4310 - Pir Canopy Species Balsam Fir	ne, Oak Mi % Cover 3	x Po Size Class Pole/Sapling	oletimbe DBH	er Well	Sub-Canopy Species Balsam Fir	Density Low	Avg. Height Variable	Size Sapling	rules, the 2nd age class of RM could no longer be listed separately; that residual log RM had to be merged into the dominant immature record & the RM 2nd age was applied to the JP canopy record as a surrogate. Part of stand 65's boundary-excluded retention was merged with this stand during treatment closing updates (see Site Condition layer). Feb 2014 field comments: Mixed oak-pine stand on dry south aspect; 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
58	4310 - Pir Canopy Species Balsam Fir Red Pine	ne, Oak Mi **Cover* 3 10	x Po Size Class Pole/Sapling Pole/Log	DBH 6 8	er Well	Sub-Canopy Species Balsam Fir Northern Pin Oak	Density Low Low	Avg. Height Variable Variable	Size Sapling Sapling	rules, the 2nd age class of RM could no longer be listed separately; that residual log RM had to be merged into the dominant immature record & the RM 2nd age was applied to the JP canopy record as a surrogate. Part of stand 65's boundary-excluded retention was merged with this stand during treatment closing updates (see Site Condition layer). Feb 2014 field comments: Mixed oak-pine stand on dry south aspect; 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.
58	4310 - Pir Canopy Species Balsam Fir Red Pine White Pine	ne, Oak Mi **Cover* 3 10 30	x Po Size Class Pole/Sapling Pole/Log Pole/Log/Sap	DBH 6 8 7	er Well	Sub-Canopy Species Balsam Fir Northern Pin Oak White Pine	Low Low Low	Avg. Height Variable Variable Variable	Size Sapling Sapling Sapling	rules, the 2nd age class of RM could no longer be listed separately; that residual log RM had to be merged into the dominant immature record & the RM 2nd age was applied to the JP canopy record as a surrogate. Part of stand 65's boundary-excluded retention was merged with this stand during treatment closing updates (see Site Condition layer). Feb 2014 field comments: Mixed oak-pine stand on dry south aspect; 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.
58	4310 - Pir Canopy Species Balsam Fir Red Pine White Pine Red Maple	ne, Oak Mi **Cover* 3 10 30 15	x Po Size Class Pole/Sapling Pole/Log Pole/Log/Sap Pole/Sapling	DBH 6 8 7 6	er Well	Sub-Canopy Species Balsam Fir Northern Pin Oak White Pine	Low Low Low	Avg. Height Variable Variable Variable	Size Sapling Sapling Sapling	rules, the 2nd age class of RM could no longer be listed separately; that residual log RM had to be merged into the dominant immature record & the RM 2nd age was applied to the JP canopy record as a surrogate. Part of stand 65's boundary-excluded retention was merged with this stand during treatment closing updates (see Site Condition layer). Feb 2014 field comments: Mixed oak-pine stand on dry south aspect; 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	4130 -	Aspen		Sawtimb	er Well	11.1	88	111-140	N/A
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height
	Northern Pin Oak	3	Log/Pole	12		Bals	sam Fir	High	Variable
	Bigtooth Aspen	60	Log	14	88	Whi	te Pine	Low	Variable
	Balsam Fir	3	Pole/Log	9		Witc	h Hazel	Low	5 - 10 feet
	Red Pine	2	XLog	22		Hazelnu	it (Beaked)	Low	< 5 feet
	Red Maple	30	Pole/Log	9					

12

Log/Pole

2

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.

Paper Birch

Size

Sapling

Sapling

Tall Shrub

Tall Shrub



Stand	Level 4 C	over Type	s	ize De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments	
60	4130	- Aspen	Po	oletimb	er 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-Ca	nopy Species	s 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	
	Red Maple	5	Pole/Sapling	6		Blac	ck Cherry	Low	Variable	Tall Shrub	upland overall, but the stand's S1/2 is cut with lowland brush swales.	
	Quaking Aspen	60	Pole/Sapling	5	27	Mich	igan Holly	Trace	5 - 10 feet	Tall Shrub	Beaver felling has reduced the canopy in the S-center.	
	Bigtooth Aspen	20	Pole/Sapling	5	27	Та	ıg Alder	Low	5 - 10 feet	Tall Shrub		
	Balsam Fir	5	Pole/Sapling	6								
	White Pine	5	Log/Pole/Sap	15								
	Black Spruce	2	Pole	6								
	Northern Pin Oak	3	Pole	8								
61	6220 - A	Alder/willow	l	Nonsto	cked	3.8	I	Unspecified	No		Feb 2014 edge comments: Stand encompasses a group of small wetlands with salix, ilex, tag alder and encroaching Q/E.	
62		wland Ceda			er Well	62.8	128	201+	N/A		Feb 2014 field comments: Cedar swamp bordering Roy Creek. Except for the flood-stressed patch on the east end, the cedar has decent vigor	
	Canopy Species	% Cover			Age		nopy Species		Avg. Height	Size	Associates include black spruce, RM, paper birch, balsam fir and	
No	rthern White Cedar	70	Log/Pole	11	128	Ва	Isam Fir	Low	Variable	Sapling	scattered supercanopy WP. The deciduous component increases on the	
	White Pine	2	XLog	24							stand margins by the uplands. Relatively open below in the stand's core, with balsam fir regen mostly along the margins. There is slash from root-	
	Paper Birch	5	Log	12							tips. Heavy deer use. This stand includes a narrow strip of state land	
	Balsam Fir	3	Pole	7							with similar cover on the west side of the powerline corridor. 2024	
	Red Maple	10	Log/XLog/Pole		91						update: stand 64's boundary-excluded RMZ retention was merged with this stand post-harvest (see Site Condition layer); this added mostly RM	
	Black Spruce	10	Pole/Log	8							to the canopy data & contributing a 2nd age.	
63	6220 - A	Alder/willow	ı	Nonsto	cked	2.3	ı	Unspecified	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	5	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-Ca	nopy Species	s 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	Re	d Maple	Low	< 5 feet	Seeding	pockets of A3 separated by LDT-D cover. Most of the stump-origin RM-	
	Bigtooth Aspen	80	Sapling	1	1	Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	NPO is <3 ft tall and recordable only in the subcanopy. There is dense	
I	Northern Pin Oak	10	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	ern Pin Oak	Low	< 5 feet	Seeding	season in, the regen doesn't pass at this time to stem density or height	
65	310 - Herbac	eous Open	ıland	Nonsto	cked	20.2	0	Unspecified	4139 - Aspen Deciduc	•	standards but potential for in-growth is good. Deer browse is very ligh A-RM stand was harvested summer 2023 (#017-16), cutting stems 2"- DBH except RP-WP >18" DBH and retention that boundary-excluded length of the property of the prope	
							nopy Species	s 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.	
							oth Aspen	Low	< 5 feet	Seeding	Kildeers & sandhill cranes occupying the opening, may be nesting.	
						Re	ed Pine	Trace	>20 feet	Log	Stand 65's boundary-excluded RMZ retention was shifted to stands 57 &	
						Wh	nite Pine	Trace	>20 feet	Log	69 (see Site Condition layer).	
						Northe	ern Pin Oak	Trace	< 5 feet	Seeding		
						Re	d Maple	Trace	< 5 feet	Seeding		



Stand	Level 4 C	over Type	s	Size Density			Stand Age I	BA Range	Managed S	Site	General Comments					
66	629 - Mixed nor	Nonstocked		27.0	ι	Inspecified	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	ck, N. Pin O	ak S	Sapling Well		106.3	15	Immature	N/A		Feb 2014 field comments: JP stand with a significant oak component					
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	was final harvested in 2009 (#015-06). Regen is predominantly oak, in both stump-origin clumps and individual stems. The stump sprouts are					
В	sigtooth Aspen	2	Sapling	2	15	Northe	rn Pin 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	Witc	h Hazel	Low	5 - 10 feet	Tall Shrub	seedling component (<3' tall) with potential to recruit also. Deer browse					
	Balsam Fir	2	Sapling	3							is occurring but not overwhelming. JP regen increases toward the landing. Larger residual sapling WP, JP, RP & BF are scattered					
	White Pine	5	Pole/Sap/Log	7							throughout. Small amount of BTA regen along the NW edge. 2024					
	Jack Pine	20	Sapling	1							update: canopy closure has shifted into the 75-100% range as more of					
	Red Pine	1	Sapling/Pole	4							the single-stem origin oak has recruited. The oak seedling layer has very					
											little browse. The stump-origin oak from the harvest is starting to she some top die-back.					
68	6112 - Lo	wland 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 over) spec'd to remove merch A, RM, PB & JP, and balsam fir & NWC within					
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	aspen clones. The harvest was active from 1961-1966 (vast majority cut					
В	ligtooth Aspen	5	Pole	8	60	Tag	g Alder	Low	5 - 10 feet	Tall Shrub	by 1964) and was closed with "scattered patches not cut due to					
	Balsam Fir	7	Pole	7		Michi	gan Holly	Low	5 - 10 feet	Tall Shrub	inaccessibility (wet conditions)". The NE 2 chains along the PVT were					
C	uaking Aspen	70	Pole/Log	9	60	Whi	ite Pine	Low	Variable	Sapling	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					
	Red Maple	15	Log/Pole	13	84	Bals	sam Fir	High	Variable	Sapling	tag alder/ilex wetlands; the lowland brush cover is patchy elsewhere. Or					
	Paper Birch	3	Log/Pole	10							the highest ground, fairly complete cutting occurred in the aspen, but the merch & up specs & incomplete access made for a 2nd older age class					
											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 felling of QA.					
69	6130 - Fir,	Aspen, Map	ole Po	letimb	er Poor	73.8	83	1-50	N/A		Feb 2014 field comments: Low ground with mucky seeps and inclusions of marginally drier ground. The core wettest ground has a relatively ope					
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	canopy of balsam fir & RM over tag alder & ilex, with black & white					
	Paper Birch	8	Pole/Sapling	7			sam Fir	Medium	Variable	Sapling	spruce, paper birch, cedar & aspen associates. The cedar occurs in					
North	hern White Cedar	10	Pole/Log	9	117	Black	k Spruce	Low	Variable	Sapling	dense sub-acre patches. The slightly drier ground has less balsam fir in the overstory, more RM & white spruce, and greater canopy closure.					
I	Black Spruce	15	Pole/Log	8	91	Та	g Alder	Medium	10 - 20 feet	Tall Shrub	Patches on the stand's perimeter have 75-100% canopy closure. The					
C	uaking Aspen	2	Log/Pole	13		Michig	gan Holly	Medium	5 - 10 feet	Tall Shrub	understory has medium-to-high cover in fir & spruce. Large canopy gaps					
	Balsam Fir	33	Pole/Sapling	7	83						formed from the overmature fir, PB & aspen breaking up are slowly filling					
	Red Maple	32	Pole/Sap/Log	8							in with fir. 2024 update: mortality in the fir & birch, top-dieback in the RM. Part of stand 65's retention was merged into this stand (see Site Condition layer).					
70	6220 - A	Alder/willow	I	Nonsto	cked	22.4	l	Jnspecified	No		Feb 2014 edge comments: Tag alder, salix, & ilex with patches of beave meadow. Active lodge. Flooded portion of what was probably the 1960's harvest haul route cuts through it. Dead ash at north end.					

3.7

Nonstocked

Compartment: 65 Year of Entry: 2026



Stand	Level 4 Co	over Type	Si	Size Density		Acres	Stand Age B	A Range	Managed \$	Site	General Comments		
71	6113 - Lov	wland Map	le Sa	Sawtimber Well		18.3	96	81-110	N/A		The stand was within a large timbersale (#78-60A, est. 390 ac. cut over)		
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy 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 cut		
	Red Maple	70	Log/Pole	ole 13 96		Balsam Fir		High	Variable	Sapling	by 1964) and was closed with "scattered patches not cut due to		
	Paper Birch	8	Log/Pole	11		Tag Alder		Low	5 - 10 feet	Tall Shrub	inaccessibility (wet conditions)". Only a minor amount of the 1960's		
C	Quaking Aspen	10	Log/Pole	11		Michigan Holly		Medium	5 - 10 feet	Tall Shrub	cutting occurred in this stand, which is on PArVCo & lower ground with marsh/lowland brush wetland inclusions throughout. Canopy is mostly		
Е	Bigtooth Aspen	2	Log	16		Red	Maple	Low	10 - 20 feet	Sapling	large cull RM with paper birch, overmature aspen, balsam fir, & traces of		
	Balsam Fir	10	Pole	7					1		WP, elm & balsam poplar. The ash has died out. Seams & poorly-		
72	4122 - (Oak, Pine	S	Sapling	Poor	79.0	4	1-50	N/A		healed branch scars common in the RM. Medium-to-full balsam fir understory is recruiting into the canopy as the overmature PB, aspen & balsam fir components drop out. Dry oak-pine stand was final harvested by spring 2023 (#017-16), cutting		
	Canopy Species	% Cover	Size Class	ize Class DBH Ag		DBH Age		Sub-Can	opy 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
	Red Pine	1	Sapling	1		White Pine		Low	< 5 feet	Seeding	layer). The retention islands have pole-log NPO, JP & WP (the JP &		
	Jack Pine	4	Sapling	1		Jack Pine		Low	< 5 feet	Seeding	NPO had to be called Log only in order to overcome a MiFI limitation and		
No	orthern Pin Oak	5	Log	11	104	Northe	rn Pin Oak	Medium	< 5 feet	Seeding	be able to record it separately from the canopy regen). Residual WP is		
	White Pine	25	Pole/Log/Sap	9	60						scattered across the harvested area. 50 acres were harvested by spring of 2020; the regen there passed to the oak-pine objective with vigorous		
	Jack Pine	5	Log	11	81						stump-origin oak and minor WP-JP-RP regen. The remaining 20 acres i		
No	orthern Pin Oak	60	Sapling	1	4						the NW were cut by spring 2023; there is good oak regen, but after only one growing season, it doesn't pass to the minimum height standard yet.		
											Browse is light and that later-cut portion is expected to recruit; a follow-up regen survey will be prescribed for that area. This stand also includes a forested strip on the west side of the powerline corridor that was not part of the harvest and isn't reflected in the canopy data.		
73	6113 - Lov	wland Map	le Saw	rtimber	Medium	n 44.6	108	51-80	N/A		Feb 2014 field comments: Long narrow E-type stand between the uplands and the cedar swamp. The canopy is RM-dominated, with pape		
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	tirch, balsam fir & spruce associates, and small amounts of super-		
	White Pine	10	Pole/Log/XLog	8		Red	l Maple	Low	>20 feet	Sapling	canopy WP & RP, NWC, oak, overmature JP & aspen. The RM is heavy		
	Red Maple	60	Log/Pole	12	108	Bals	sam Fir	High	Variable	Sapling	to cull saw. Slash is building as the overmature balsam fir, PB & QA		
	Paper Birch 5 Log/P		Log/Pole	10		Whi	te Pine	Low	Variable	Sapling	break up. The canopy closure is 75-100% on the transition ground edge but drops moving east onto the lower ground. The balsam fir & spruce		
	Balsam Fir		Pole/Sap/Log	6	87	Black	Spruce	Low	Variable	Sapling	understory is thick on the lower ground, but not enough has recruited to		
	ern White Cedar 5 Log/Pole 12 Michigan		ran Holly	Low	5 - 10 feet	Tall Shrub	t						
Nort	hern White Cedar	5	Log/Pole	12	11	IVIICITI	gairriony		0 101000	Tall Office	understory cover is variable, ranging from relatively open, to dense		

Unspecified

No

6222 - Shrub-Carr

74

Feb 2014 edge comments: Ilex & tag alder with <25% cover in large sap/small pole RM, PB, BF, NWC.

OF NATURAL DINR
MICHIGAN

Stand Level 4 C	Level 4 Cover Type 6122 - Black Spruce		Size Density			Stand Age E	BA Range	Managed	Site	General Comments			
75 6122 - B			Poletimbe		10.4	61	81-110	N/A		March 2014 field comments: The largest of several patches cut along			
Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	Canopy Species	Density	Avg. Height	Size	the swamp edge between 1961 & 1963 (#76-61A, spec'd to remove merch balsam fir, black spruce, NWC & JP, along with minor amounts of hemlock, RM & PB). Regen from the cut is dense pole-sapling spruce & fir with aspen, RM, PB & WP. The deciduous component is mostly along			
Northern White Cedar	4	Log/Pole	12		Ta	ag Alder	Trace	>20 feet	Tall Shrub				
White Pine	2	Log/Pole/XLog	10		Ва	Isam Fir	Low	>20 feet	Sapling				
Red Maple	5	Pole	7	61			,			the west edge. Residual from the cut includes scattered NWC saw & super-canopy WP. Stand age was set to the harvest completion year,			
Balsam Poplar	2	Pole	8	61						but the regen continued to fill in over the next few years (5" DBH spruce			
Quaking Aspen	7	Pole	6	61						cored 46 years), and the merch cuttings specs left a minor component			
Balsam Fir	15	Sapling/Pole	4	61						older residual.			
Black Spruce	60	Pole/Sapling	6	61									
Paper Birch	5	Sapling/Pole	3	61									
77 6113 - Lo Canopy Species	wland Map		Sawtimber Medium		n 23.8 99 Sub-Canopy Specie		51-80 Density	N/A Avg. Height Si:		canopy in large sap/small pole RM, PB & BF. 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			
Paper Birch	5	Log/Pole	10	Age		ag Alder	Low	5 - 10 feet	Tall Shrub	aspen clones. The harvest was active from 1961-1966 (vast majority cut by 1964) and was closed with "scattered patches not cut due to			
Red Maple	60	Log/Pole	12	99		igan Holly	Low	5 - 10 feet	Tall Shrub				
Balsam Fir	15	Pole	6			d Maple	Low	10 - 20 feet	Sapling	in this stand, which is on PArVCo & lower ground, but there is more post			
Black Spruce	2	Pole/Log	9		Ва	lsam 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			
Northern White Cedar	3	Log/Pole	12		WI	nite Pine	Low	Variable	Sapling	mostly poor-quality RM with balsam fir, paper birch, aspen & small			
White Pine	3	XLog/Log	28							amounts of NWC, black spruce & super-canopy WP. Canopy closure			
Quaking Aspen	12	Pole/Log	8							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			
5 ,										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 Oper	nland I	Nonsto	ocked	9.9	U	Jnspecified	No		Cleared powerline corridor. NPO regen filling in the edges.			

t 7 – Stands Compartment: 65 Year of Entry: 2026



Stand	Level 4 C	over Type	s	Size Density		Acres	Stand Age B	A Range	Managed S	Site	General Comments			
79	4310 - Pi	4310 - Pine, Oak Mix			Sapling Well		25	1-50	N/A		Feb 2014 field comments: JP-O-A stand was final harvested in 1999			
Ca	nopy Species	% Cover	Size Class	DBH	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			
Nort	thern Pin Oak	35	Sapling/Pole	2	25	Blac	ck Cherry	Low	Variable	Tall Shrub	most of its stems pole-sized or larger. The stand has a mix of JP, WP,			
Е	Balsam Fir	3	Sapling/Pole	3		North	ern Pin Oak	Low	< 5 feet	Seeding	oak, RM & BTA, with small amounts of BC, fir and RP. Species			
V	White Pine	25	Log/Pole	11	56			'		'	distribution varies. WP is scattered throughout and concentrated on the steeper hillsides. The RM is mostly in the NE along the swamp edge.			
,	Jack Pine	30	Sapling/Pole	4	25						The BTA occurs in a few small clones. The older residual JP pole			
	Boxelder	1	Log/Pole	11							component is heaviest on the stand's W & S edges. The stand has on			
F	Red Maple	3	Sapling	2							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			
Big	tooth Aspen	3	Pole/Sapling	5	25						managed with the adjacent USFS lands (cut & trenched to the KW wea			
80	6122 - BI	ack Spruce	e Po	oletimb	er Well	5.6	61	81-110	N/A		back 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			
	nopy Species		Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	swamp edge between 1961 & 1963 (#76-61A, spec'd to remove merch			
	Balsam Fir	10	Sapling/Pole	3	61		ag Alder	Low	10 - 20 feet	Tall Shrub	balsam fir, black spruce, NWC & JP, along with minor amounts of hemlock, RM & PB). Regen from the cut is dense pole-sapling spruce			
	ack Spruce	65	Pole/Sapling	6	61		Isam Fir	Medium	Variable	Sapling	fir with aspen, RM, PB & WP. Residual from the cut includes scattered			
	ern White Cedar	5	Log/Pole	12					Variable		NWC saw & super-canopy WP. Stand age was set to the harvest			
F	Red Maple	5	Pole	7							completion year, but the regen continued to fill in over the next few year and the merch cutting spec left a minor component of older residual.			
Qu	aking Aspen	3	Pole	7	61						acre in the stand's NE is a patch of cedar windthrow that wasn't part of			
Ва	Isam Poplar	5	Pole	8	61						the original cut. Because the blow-down happened more recently, the			
Р	aper Birch	2	Sapling	3	61						balsam fir and spruce regen within it is much younger.			
V	Vhite Pine	5	Pole/Log/XLog	8										
81		wland Ceda			er Well	103.9		171-200	N/A	0:	2014 field comments: Dense cedar cover with minor spruce, fir, RM, F & hemlock components, and traces of tamarack, balsam poplar &			
	nopy Species		Size Class		Age		nopy Species		Avg. Height	Size	supercanopy WP. A lot of deer use this winter. Open below where the			
	Balsam Fir	3	Pole	7			per Birch	Low	Variable	Sapling	canopy is closed; heavy balsam fir understory in canopy gaps. The cedar is relatively healthy & vigorous, but there is an area of stressed			
	Red Maple	5	Pole/Log	8			Isam Fir	High	Variable	Sapling	trees in the SE by a couple acres of root-tipped cedar. Amongst the			
	ack Spruce	5	Pole/Log		104		ag Alder	Low	10 - 20 feet	Tall Shrub	tangled of downed trees, there are cedar and paper birch saplings.			
	ern White Cedar White Pine	80	Pole/Log	9 24	124	Re	ed Maple	Low	Variable	Sapling	Some of the cedar regen is from layering, but even the apparent seed- origin stems are vigorous and unbrowsed. On the transition ground to			
	Hemlock	2	XLog/Log	9							the uplands, the cedar diameter gets larger but it's canopy representat			
	aper Birch	3	Pole/Log Pole/Log	7							decreases as the RM/E increases. Patches of concentrated RM saplir occur there also.			
82	6233 - W	et Meadow	,	Nonsto	cked	17.8	U	Inspecified	No		Feb 2014 edge call: Large beaver meadow behind dams. Tag alder,			

salix & spiraea colonizing the edges.



											DNR			
Stand	d Level 4 C	Level 4 Cover Type Size Density Acres Stand		Stand Age B	A Range	Managed S	Site	General Comments						
83	6122 - B	lack Spruce	e Po	oletimber 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	l Age	Sub-Ca	nopy 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			
	Red Maple	5	Pole/Sapling	6	61	Ва	alsam Fir	Medium	Variable	Sapling	hemlock, RM & PB). Regen from the cut is dense pole-sapling spruce &			
	Balsam Fir	10	Pole/Sapling	6	61						fir with WP, RM, aspen & PB. Residual from the cut includes scattered			
	Black Spruce	60	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,			
	Quaking Aspen	3	Pole	7	61						and the merch cutting specs left a minor component of older residual.			
No	rthern White Cedar	10	Log/Pole	12	124						2nd age estimate on the NWC was drawn from the adjacent cedar stand.			
	White Pine	10	Pole/Log	7										
	Paper Birch	2	Sapling/Pole	4	61									
84		wland Aspe			er Well	21.5		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		Size Class		I Age		nopy Species	Density	Avg. Height	Size	aspen clones. The harvest was active from 1961-1966 (vast majority cut			
	Bigtooth Aspen	20	Log/Pole	10			ag Alder	Low	5 - 10 feet	Tall Shrub				
	Balsam Fir	10	Pole	6		Ba	alsam Fir	High	Variable	Sapling	inaccessibility (wet conditions)". The ground is PArVCo with drier & wetter inclusions. The terrain is dotted with small tag alder/ilex wetlands;			
	Red Maple	18	Pole/Log	9	85						the lowland brush cover is sparse elsewhere. On the highest ground,			
	Red Oak	2	Log/XLog	18							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 designated out species. 2nd age was on the residual RM. In addition to			
	Paper Birch	5	Pole	6							designated-cut species. 2nd age was on the residual RM. In addition the aspen & RM, there is balsam fir, PB, & traces of oak, NWC & balsapoplar. 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 - Nat	tural Jack F	Pine Po	oletimb	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	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	WP & RP bordering the lowland edge, and scattered JP & poor-quality			
	White Oak	2	Pole/Sap/Log	8		North	ern Pin Oak	Low	5 - 10 feet	Sapling	oak that survived the fire. Regen that filled in post-salvage is the majority			
I	Northern Pin Oak	10	Pole/Sapling	6		W	hite Pine	Low	Variable	Sapling	cover across the stand's interior: JP & WP small pole material. The WP			
	White Pine	15	Pole/Log/XLog	8							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			
	Red Pine	5	Log/Pole/XLog	11	74						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 Maple	3	Pole/Log	9							limitation, that 2nd age was applied to the RP canopy record as a			

surrogate.



Stand	Level 4 Co	Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site				Site	General Comments						
86	42200 - Natu	ıral White I	Pine Saw	timbe	Medium	60.1	57	51-80	N/A		Mixed pine-oak stand was harvested in 2009 (#015-06), cutting 2"+ DBH		
С	Canopy Species	% Cover	Size Class	DBH Age		Sub-Canopy Species		Density	Avg. Height Siz	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		
No	rthern Pin Oak	1	Log/Pole	12		White Oak		Trace	5 - 10 feet	Sapling	canopy. The WP ranges from large saplings to xlog, but most land in the		
	Jack Pine	1	Pole/Log	8		Northe	rn Pin Oak Low		< 5 feet	Seeding	small saw class (1st age). The WP large saw component increases		
	White Pine	85	Log/Pole/XLog	11	57	Northe	rn Pin Oak	High	Variable	Sapling	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		
	Red Pine	13	Log/Pole/XLog	14	80	Whi	ite Pine	Medium	Variable	Sapling	the older WP separately). The minor RP component is scattered		
						Witc	h Hazel	Trace	5 - 10 feet	Tall Shrub	throughout. The small amounts of JP & oak are mainly in the north		
						Jac	k Pine	Trace	10 - 20 feet	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'		
						Bigtoo	oth Aspen	Low	>20 feet	Sapling	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 passe to the oak-pine-aspen objective.		
87	42290 - Natu				er Well	43.1		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		
С	Canopy Species	% Cover		_	Age		opy Species	Density	Avg. Height	Size	(mature poles in their 60's and overmature saw in their 80's). The		
	Red Pine	5	Log/Pole/XLog	14	83		ite Pine	Full	Variable	Sapling	overmature JP & NPO have been dropping out while the WP component		
	White Pine	50	Log/Pole/XLog	10	71		rn 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.		
	Black Spruce	2	Pole	8		Northe	rn Pin Oak	Low	Variable	Sapling	Species distribution varies across the stand. The understory has		
No	orthern Pin Oak	10	Log/XLog/Pole	14	97	Red	d Maple	Low	Variable	Sapling	medium-high WP cover. 2nd age on the JP was 83 but couldn't be		
	Jack Pine	25	Pole/Log	8	63						separately due to a MiFI limitation so it was applied to the RP canopy		
	Red Maple	3	Pole/Log/XLog	8							record as a surrogate.		
	White Oak	2	Log/XLog	15									
Bi	igtooth Aspen	3	Log/Pole/XLog	10									
88	6220 - A	lder/willow	١	Nonst	ocked	4.1	U	nspecified	No		String of wetlands with tag alder, ilex, patches of marsh, dead ash. Encroaching fir, maple & aspen on the perimeter.		
89	6113 - Lov	wland Map	le Saw	timbe	Medium	31.5	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		
С	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	aspen clones. The harvest was active from 1961-1966 (vast majority cu		
	White Pine	15	Pole/Log/XLog	8		Tag	g Alder	Low	5 - 10 feet	Tall Shrub	by 1964) and was closed with "scattered patches not cut due to		
	Red Pine	1	XLog/Log	22		Bals	sam Fir	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	Michi	gan Holly	Low	5 - 10 feet	Tall Shrub	post-harvest residual (1st age) than regen (2nd age) across the		
	Hemlock	2	Pole/Log	9		Whi	ite Pine	Medium	Variable	Sapling	designated-cut species. That incompete cutting made the stand highly		
						Doo	d Maple	Low	10 - 20 feet	Sapling	variable in terms of species, age, and diameter distribution. Pronounced		
Bi	igtooth Aspen	2	Pole	7		Rec	iviapie	LOW	10 20 1001	Sapility			
	igtooth Aspen Balsam Fir	10	Pole Pole	7		Kec	i Mapie	LOW	10 20 1001	Sapiling	tip-up mound topography with lowland brush swales. Overstory is mostly		
	· '					Rec	имаріє	Low	10 - 20 1000	Saping			
North	Balsam Fir	10	Pole	7		Kec	лиаріе	2011	10 20 1001	Sapiling	tip-up mound topography with lowland brush swales. Overstory is mostly poor-quality RM with balsam fir, WP, PB, aspen, patches of NWC &		



Stand	Level 4 Cover Type			Size Density		Acres Stand Age BA Ra		BA Range Managed Site		Site	General Comments			
90	4199 - Other Mixe	d Upland D	eciduous S		er Well	40.6 127 81-110		N/A		Feb 2014 field comments: Most of this mature oak stand was on land acquired from the USFS in 1986. The stand's perimeter near the				
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Canopy Species		Density	Avg. Height	Size	lowlands has more large NRO, but the drier interior has poorer quality			
	Red Pine	2	Log/XLog/Pole	e 16		Ва	alsam Fir	Low	Variable	Sapling	hybridized oak, white oak & overmature JP. Canopy closure is at the lov			
	Jack Pine	3	Log/Pole	11		W	hite Pine	Medium	Variable	Sapling	end of 75-100% there, with WP poles & large saplings filling in. The			
	Red Maple	10	Pole	7		Wi	tch Hazel	Low	5 - 10 feet	Tall Shrub	aspen occurs in small clones scattered across the stand. Most of the aspen is overmature saw, but the stand's southeast 6 acres were within			
	Red Oak	10	Log/XLog	18							timbersale #78-60A (merch aspen, RM, PB, & JP were cut; oak was left)			
	White Oak	5	Log	14							resulting in patches of younger pole aspen (second age, cutting record)			
	Bigtooth Aspen	25	Log/Pole	14	60						mixed into the mature oak overstory there. 2024 update: tsale volume data was used to inform canopy edits for this stand, currently on contract			
	White Pine	5	Pole/Log	8							72-020-21.			
Bla	ck/Red (Hybrid) Oak	40	Log/XLog	16	127									
91			· ·			1.1	25 I	Immature	N/A		Old notes indicated this was a landing cleared in 1999 for harvest #035-			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	96. Opening filling in with oak, WP & JP. Handful of mature oak around the deer season campsite.			
Bla	ck/Red (Hybrid) Oak	70	Sapling	3	25	Black/Re	ed (Hybrid) Oak	Low	< 5 feet	Seeding	the deel codes of campans.			
	White Pine	15	Sapling/Pole	4							•			
	Jack Pine	10	Sapling	4										
	White Oak	5	Sapling	2										
92	6117 - Lowland Con	Deciduous iferous	, Mixed S	Sawtimb	er Well	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	l 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			
No	rthern White Cedar	7	Log/Pole	12	133	W	hite Pine	Medium	Variable	Sapling	more open canopy, smaller-diameter RM, significant spruce-fir-tamarack			
	Tamarack	2	Log	12		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub				
	Paper Birch	7	Log/Pole	12		Mich	nigan Holly	Low	5 - 10 feet	Tall Shrub	saturated. The canopy closure & RM component increases, and large			
	Bigtooth Aspen	3	Log	15		Ba	alsam Fir	High	Variable	Sapling	oak & overmature BTA occur on the transition ground margins. The stand's S end is on a couple old terraces above Duval Creek and			
	Balsam Fir	10	Pole	7		Blac	ck Spruce	Low	Variable	Sapling	encompasses a small tributary. The ground is wet-mesic, and has a mix			
	Black Spruce	6	Pole	7				1	1		of supercanopy WP & RP, cedar, hemlock, RM, large red oak & BTA, & a			
	Red Maple	50	Log/Pole	12	108						trace of sugar maple. The balsam fir understory is heaviest along the creek.			
	White Pine	10	XLog/Log	28										

Red Oak

2

Log/XLog

18



Stand	Level 4 Co		Size D	ensity	Acres :	Stand Age B	A Range	Managed :	Site	General Comments	
93	4139 - Aspen, I	Mixed Deci	duous F	Poletim	ber 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	DB	H Age	Sub-Can	opy Species	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
	Paper Birch	2	Pole/Log	8		Bals	sam Fir	Low	Variable	Sapling	1961-1966 (vast majority cut by 1964) and was closed with "scattered
	Quaking Aspen	1	Pole	7		Witch	h Hazel	Low	5 - 10 feet	Tall Shrub	patches not cut due to inaccessibility (wet conditions)". This upland
	White Pine	2	XLog/Log	28		Whi	te Pine	Medium	Variable	Sapling	stand had good access and was cut close to specs, resulting in a fairly uniform regen event for the designated species. The majority pole
	Red Pine	3	XLog/Log	22						1	bigtooth aspen cover has RM and small amounts of QA & paper birch in
Blac	k/Red (Hybrid) Oak	15	XLog/Log	20	125						the same cohort. Residual from the harvest includes large oak, RP &
	Bigtooth Aspen	55	Pole/Log	9	60						WP, often super-canopy in stature. A few dozen RP & WP saw were cu 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
	White Oak	2	Log/XLog	15							interior. The second age estimate was based on the adjacent mature
94	6220 - A	lder/willow		Nons	ocked	2.4	Uı	nspecified	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 l	mmature	N/A		Jan 2014 field comments: Was final harvested 2"+ DBH except hemlock & NWC, and WP 25"+ DBH in 2009 (#031-07). Regenerated well to			
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Can	opy Species	Density	Avg. Height	Size	quaking & bigtooth aspen, with minor amounts of red maple & balsam fir.
	Balsam Poplar	5	Sapling	2		Blackberr	y/Raspberry	High	< 5 feet	Tall Shrub	· · · · · · · · · · · · · · · · · · ·
	Hemlock	2	Log/Pole	12							regen than expected, given the volume removed; what did sprout is seeing deer browse. The stand has small poorly-stocked inclusions,
	Quaking Aspen	45	Sapling	3	15						most of them low ground swales, but the ground is upland overall. 2024
	Balsam Fir	5	Pole/Sapling								update: Beaver are reducing the aspen cover in a wide swath along the
	Bigtooth Aspen	35	Sapling/Pole	3	15						streams; WP & fir are slowly filling in those non-forested zones.
	Red Maple	3	Sapling	2	15						
	White Pine	5	Sapling/Pole	2							
96	6112 - Lov	vland Aspe	n S	Sapling Medium		16.7 15		mmature	N/A		Jan 2014 field comments: Was final harvested 2"+ DBH except hemloc
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Can	opy Species	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
	Paper Birch	2	Sapling	2		Willo	ow spp.	Low	5 - 10 feet	Tall Shrub	includes hemlock, xlog WP, and a few NWC. Most of the hemlock is
	Red Maple	3	Sapling	2		Tag	Alder	Low	5 - 10 feet	Tall Shrub	concentrated in a sub-acre patch in the stand's S-center. There is a
	Balsam Poplar	5	Sapling	3		Blackberr	y/Raspberry	Medium	< 5 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
	Bigtooth Aspen	20	Sapling	3	15						throughout, occurring mostly on the lowest ground. While the stand has
	Quaking Aspen	45	Sapling	3	15						ground dry enough to support bigtooth aspen, the stand is majority
	Balsam Fir	10	Sapling/Pole	3							lowland. Narrow drainage valleys border and cut through the stand. 2024 update: Dense well-established aspen clones are separated by
	White Pine	10	Sapling/Pole	2							lowland shrub openings. Beaver are reducing the aspen cover in a wide
	Hemlock	5	Pole/Log	8							swath along the streams; WP & fir are slowly filling in those non-forested zones.
97	3302 - Low Den:	sity Conife	r Trees	Nons	ocked	2.9	0 Uı	nspecified	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, NPC & aspen cover. The south half of the original stand 97 that successfully regenerated to aspen was merged with stand 99 at re-inventory.



Stand	Level 4 C	Level 4 Cover Type Size Density Acres St			Acres Stand Age BA Range			Site	General Comments					
98	6239 - Mixed E	etland	Nonstocked		1.6	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 - Lo	wland Aspe	n S	Sapling N	/ledium	10.9	15	Immature	N/A		Was final harvested 2"+ DBH except for hemlock & NWC in 2009 (#031-			
(Canopy Species	% Cover	Size Class	B DBH Age		Sub-Canopy Specie		s 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-			
Nort	hern White Cedar	2	Log/Pole	12		Blackbe	rry/Raspberry	y High	< 5 feet	Tall Shrub	forested inclusions drag the overall canopy closure just below 75%. The			
Е	Bigtooth Aspen	15	Sapling	3						,	stand's core is on lowland ground but the north 3 acres and the south 1			
C	Quaking Aspen	55	Sapling	3	15						acre are on upland ground. Balsam poplar continues to fill in on the lowest ground. The scattered residual hemlock & NWC are mostly on			
	Balsam Fir	5	Pole/Sapling	g 6							that lower ground also.			
Е	Balsam Poplar	20	Sapling	3	15									
	Hemlock	3	Log/Pole	12										
100	6130 - Fir,	Aspen, Ma	ole Sa	awtimber	Mediun	n 28.1	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 Size Class 5 Log		DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	ground is majority lowland but includes drier transition ground on the			
C	Quaking Aspen			15		В	oxelder	Low	10 - 20 feet	Sapling	steep risers, along with isolated ridges in the SE. The lowest ground			
E	Balsam Poplar	5	Pole/Log	9		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	where most of the black & green ash grew is shifting to non-			
	Balsam Fir	25	Pole	6	59	Ва	ılsam Fir	Medium	Variable	Sapling	forested/sparse cover. The NWC is concentrated along the river and stream corridors. The drier transition ground to the uplands has the			
Nort	hern White Cedar	15	Log/Pole	12							densest cover and is heavier to RM, balsam fir, aspen & paper birch.			
	Red Maple	30	Log/Pole	12	94						Minor associates include hemlock, basswood and WP. Boxelder, prickly			
	Hemlock	5	Log/Pole	12							ash and riverbank grape occur along the Pine. 2024 update: the overmature aspen has largely died out. The SW stream corridor was			
	Basswood	5	Log/XLog	16							split off as stand 101 after the canopy there was flood-killed.			
	Paper Birch	5	Log/Pole	12										
	White Pine	5	Log/XLog	14										
101	500 - Water			Nonstocked		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	500	- Water		Nonstocked		2.3	0	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).			

Grayling Mgt. Unit