

# **Compartment Review Presentation**

**Grayling Forest Management Unit** 

Compartment 72279 Entry Year 2026 Acreage: 1,359

**County Crawford** 

Management Area: High Sand Plains

Stand Examiner: Joan Charlebois

**Legal Description:** 

T27N R02W Sections 35, 36 T26N R02W Sections 1, 12

## **Identified Planning Goals:**

To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management. And in addition, for Section 36, to provide an area that allows for National Guard training.

## Soil and topography:

The compartment is characterized by gently rolling upland terrain on primarily Grayling and Croswell-AuGres sands, interspersed with numerous low, poorly-drained areas on Tawas-Lupton mucks and Dawson-Loxely peats.

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

Section 36 is under a long term lease (L-1479) with the Michigan National Guard, DMVA to provide for military usage with no permanent buildings or improvements to be erected (Act 154, P.A. 1935). Sections 1 and 12 are general State Forest land. Part of Section 12 was obtained using Pittman-Robertson Funds. The blocks of state land in section 12 interface several private parcels that have a mix of year-round and seasonal residences.

# **Unique Natural Features:**

The Barker Creek Fen was identified as a high quality example of the Northern Fen natural community type. There is the potential for rare plant and animal species to be associated with the compartment's lowland covertypes.

#### Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

#### **Special Management Designations or Considerations:**

Section 36 is part of the Research and Military Area Special Conservation Area (SCA). The Barker Creek Fen is an Ecological Reference Area (ERA), a type of High Conservation Value Area (HCVA).

# **Watershed and Fisheries Considerations:**

Barker Creek, a designated trout stream, flows through the northern third of the compartment. It is a tributary to the AuSable, a designated Natural River.

#### Wildlife Habitat Considerations:

With its diverse mix of open marsh, bogs, conifer swamps, and upland pine, oak and aspen cover types, this compartment supports a variety of game and non-game wildlife species.

#### Mineral Resource and Development Concerns and/or Restrictions

The northern portion of the compartment is within the Camp Grayling reservation area, consisting of lands under a long-term lease or easement granted to the State Military Board, and while the DNR maintains control over the mineral rights, parcels in sections 35 & 36 have been classified as non-leasable in the past. No known potential exists for commercial metallic mineral production in this part of the state. The closest known active sand/gravel operation is roughly four miles west. Much of the compartment consists of low wetlands, which would inhibit any surface mining. The closest oil & gas production, past or present, is two miles northeast. There has been very minimal oil & gas test drilling in the vicinity of the compartment, no well permits have been issued recently in the area, and potential for future production of hydrocarbons from beneath the compartment is considered low at this time.

#### **Vehicle Access:**

County roads include: Dyer Truck Trail, Conner's Flat Road, Polly Trail (as far as Payne Road), Payne Road, and Wakeley Bridge Road. Access through existing trail roads in Section 36 has been limited by expanding beaver floodings. Two short State trail roads (one of which has been paved) are used as driveways for two houses on the south side of Conner's Flat Road in Section 1. Several cottages and residences along the AuSable River derive their sole access via

another trail road (off Polly Trail in Section 12) which has been signed on the ground as "Appleton Avenue". Two other cabins and one residence are accessed across State land in the NENE of Section 12. An easement for construction of an access roadway, granted to the State of Michigan as part of the Ludington Pump Storage Settlement Agreement, runs south of Polly Trail in Section 12 and then east into the adjacent Compt 280.

## **Survey Needs:**

None at this time.

## **Recreational Facilities and Opportunities:**

The compartment does not contain designated recreational trails or facilities, but it supports dispersed recreation in the form of hunting, trapping, camping and wildlife viewing.

#### **Fire Protection:**

The northwest end of the compartment was impacted by the Stephan Bridge Fire in 1990, which burned through upland pine types until it hit the swamps. Marshes, bogs, swamps and streams serve as fuel breaks but also limit access to supression equipment.

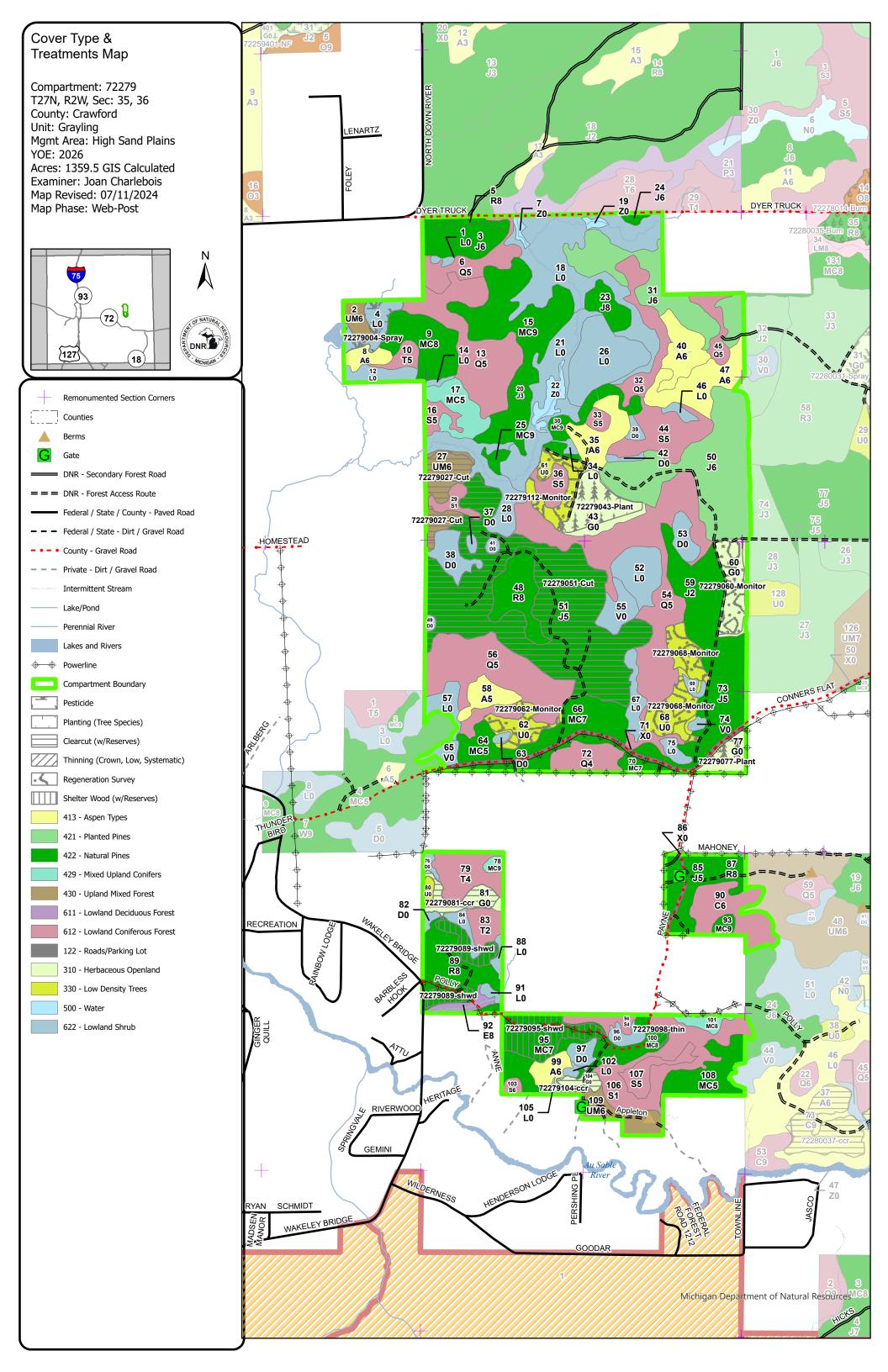
# **Additional Compartment Information:**

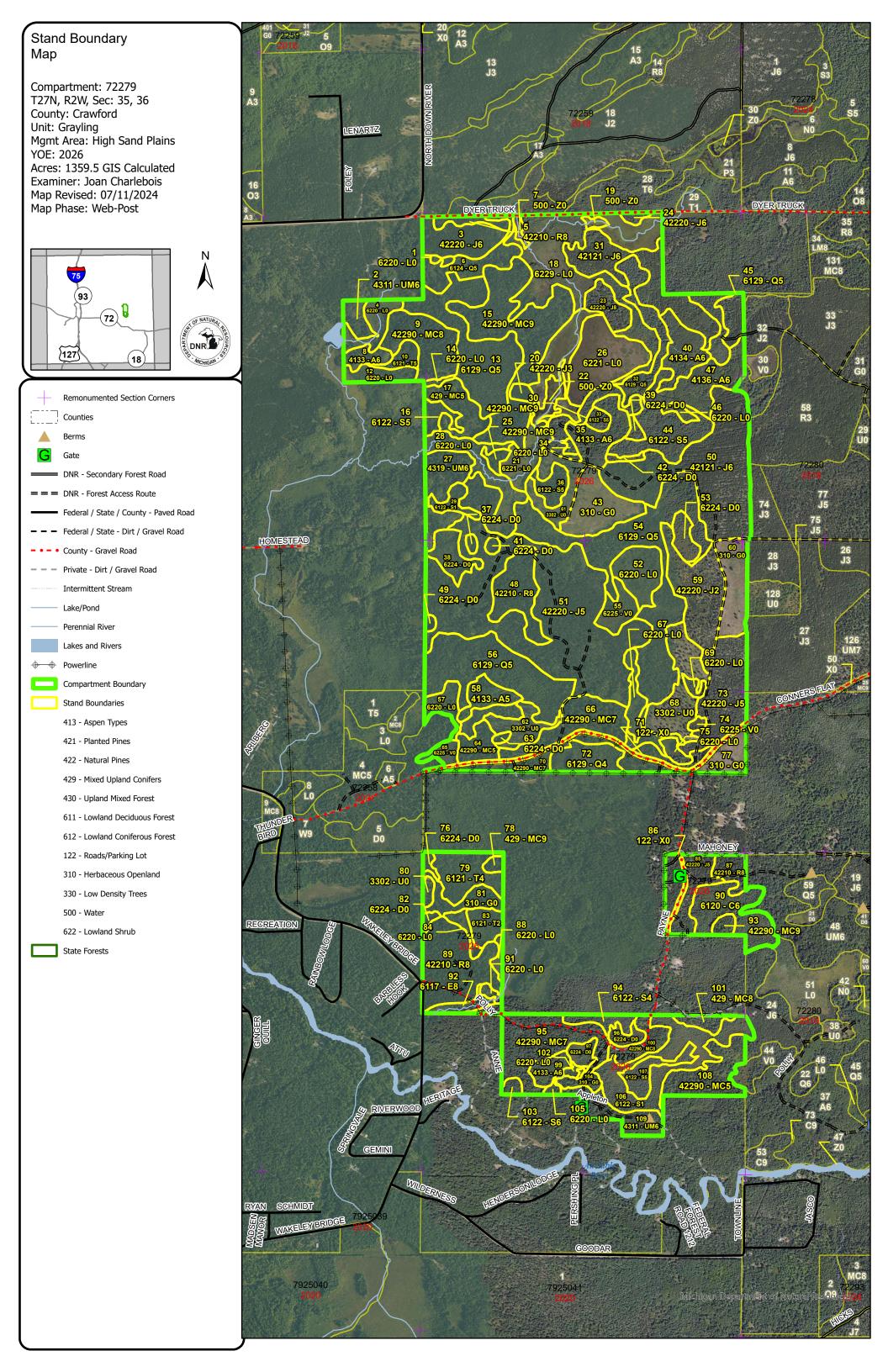
The following reports from the Inventory are attached:

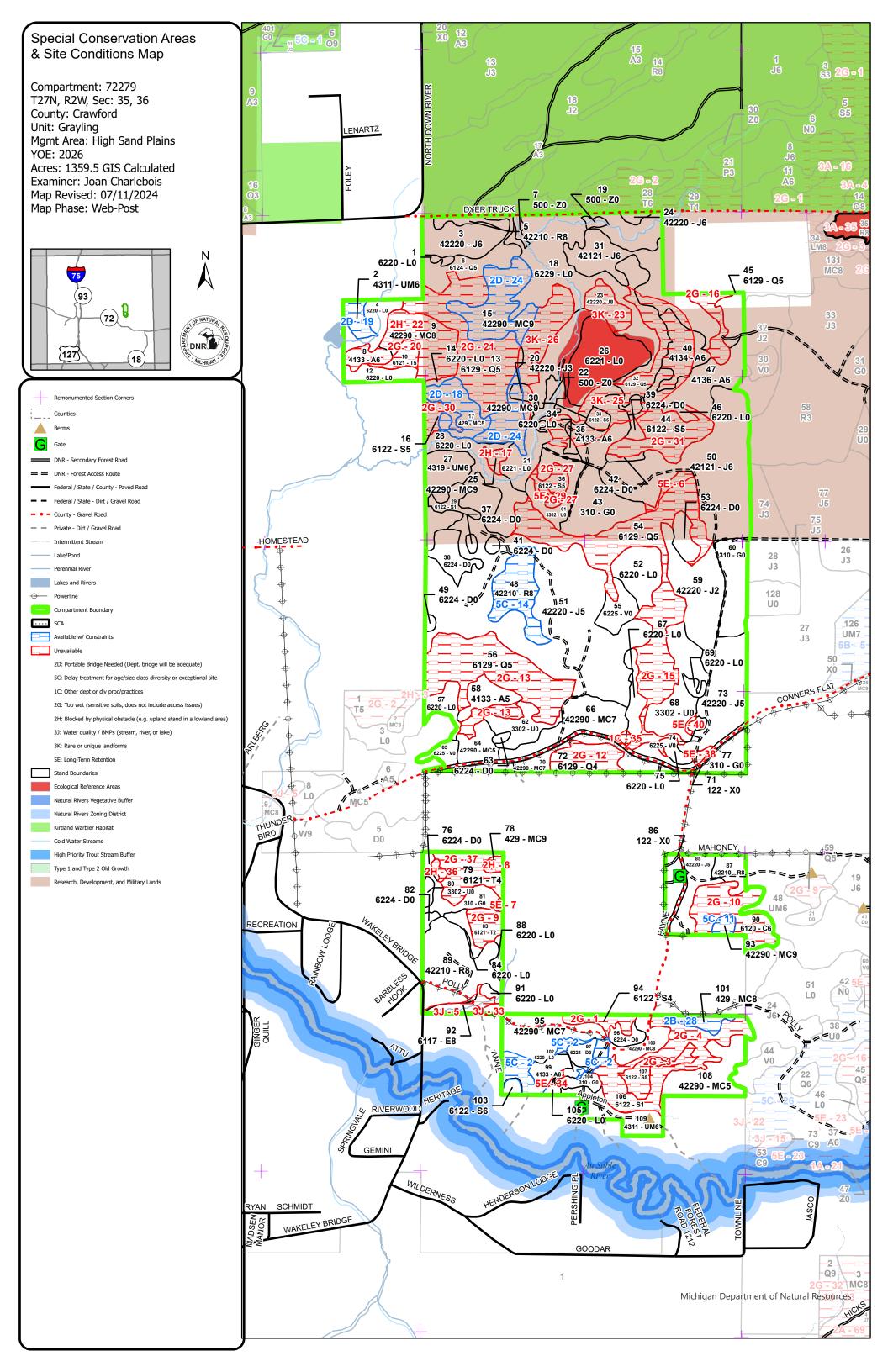
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

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







# Report 1 – Total Acres by Cover Type and Age Class

**Grayling Mgt. Unit** 

Joan Charlebois: Examiner

Compartment 279 Year of Entry 2026



## Age Class

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	**************************************	Kon /	8° / 5	\$ \ &		3 /		/ } /&					72,70				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	St Stor	LA LAND
Aspen	0	0	0	8	58	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	21
Herbaceous Openland	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Jack Pine	0	0	25	0	115	2	45	124	0	8	0	0	0	0	0	0	0	0	319
Low-Density Trees	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Lowland Conifers	0	0	0	0	14	0	0	12	0	7	0	14	108	47	0	0	0	0	202
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
Lowland Shrub	182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182
Lowland Spruce/Fir	0	0	0	0	0	5	0	0	7	6	28	0	8	0	0	0	0	30	81
Natural Mixed Pines	0	0	0	0	18	8	70	17	21	0	50	2	0	0	0	0	2	0	188
Red Pine	0	0	0	0	0	0	6	0	30	0	21	0	0	0	0	0	0	0	57
Tamarack	0	0	0	0	0	7	0	0	0	0	0	0	4	15	0	0	0	0	26
Treed Bog	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Upland Conifers	0	0	0	0	13	0	2	0	0	0	0	4	0	0	0	0	0	0	19
Upland Mixed Forest	0	0	0	0	18	0	16	0	0	0	0	0	0	0	0	0	0	0	34
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	343	0	25	8	236	22	139	153	58	21	99	20	141	62	4	0	2	30	1360



# Report 2 - Treatment Summary

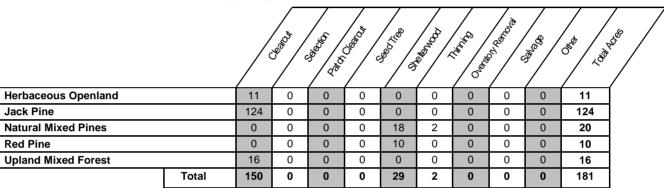
# Grayling Mgt. Unit Year of Entry: 2026

# **Acres of Harvest**

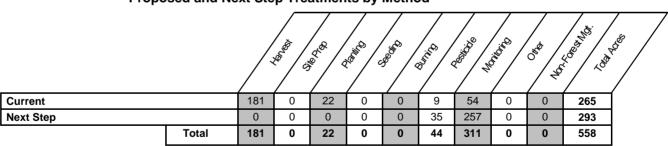
Compartment 279
Total Compartment Acres: 1,359

Commercial Harvest - 180 Harvests with Site Condition - 0 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: 279 S Year of Entry: 2026 t а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age Habitat n Method Name CoverType Density Age Range Type Objective Structure Cut Ч **Proposed Treatments:** 72279004-8.7 6220 - Alder/willow Nonstocked Pesticide 6220 -Unspec Hand Application No ified Alder/willow **Spray** Prescription Control the invasive Phragmites Specs: Next Step Monitoring, Herbicide Use Treatments: Acceptable Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2025 72279027-Cut 15.5 4319 - Mixed Poletimber 59 81-110 Harvest Clearcut with 4136 - Aspen, Even-Aged No **Upland Forest** Well Mixed Conifer Retention Prescription Final harvest. Protect the RP-WP legacy trees and boundary-exclude the RMZ and flooded swale. Spec dry summer or frozen winter operations. Set up in 2025 with stand 51. Specs: Next Step Monitoring, Natural Regen (Re-Inventory) **Treatments:** Acceptable Moderate stocking in aspen with a conifer component, and poorly-stocked inclusions. Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2024 51 72279051-Cut 123.5 42220 - Natural Poletimber 60 81-110 Harvest Clearcut with 42221 - Natural Even-Aged No Jack Pine Medium Retention Jack Pine, Mixed Deciduous Prescription Final harvest except protect legacy pine and boundary-exclude the small non-forested wetlands and the stream RMZ. Set up in 2025 due to Specs: accelerating JP budworm mortality.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Moderate stocking in mixed conifers, aspen, and upland shrub cover. If natural regen fails in the E1/2, plant the core of that area to RP, with site prep and release treatments as needed, that may include roller chopping, trenching, herbicide application, and pre-commercial thinning. Regen:

Other Comment: Site Condition

Proposed Start Date: 10/1 /2024

Report 3 -- Treatments Compartment: 279 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 62 72279062-8.9 3302 - Low Density Nonstocked Unspec Monitoring Natural Regen 429 - Mixed Even-Aged No Monitor Conifer Trees ified (Re-Inventory) **Upland Conifers** Prescription Check regen Specs: Next Step Treatments: Acceptable Moderately stocked mix of spruce, fir, RP, WP, JP & tamarack, with poorly stocked inclusions on the driest ground. Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2033 68 72279068-20.5 3302 - Low Density Nonstocked Unspec Monitoring Natural Regen 429 - Mixed Even-Aged No **Conifer Trees** ified (Re-Inventory) **Upland Conifers** Monitor Prescription check regen Specs: Next Step Treatments: Acceptable Moderately stocked mix of spruce, fir, RP, WP, JP & tamarack, with poorly stocked inclusions on the driest ground. Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2033 61 72279112-11.7 3302 - Low Density Nonstocked Unspec Monitoring Natural Regen 429 - Mixed Even-Aged Nο **Conifer Trees** (Re-Inventory) **Upland Conifers Monitor** ified Prescription check regen Specs: Next Step Treatments: Acceptable Moderately stocked mix of spruce, fir, RP, WP, JP & tamarack, with poorly stocked inclusions on the driest ground. Regen: Other Comment: Site Condition

#### **Approved Treatments:**

Proposed Start Date: 10/1 /2033

Grayling Mgt. Unit

72279043-14.7 310 - Herbaceous Nonstocked Unspec **Planting** Initial Plant 42110 - Planted Even-Aged No **Plant** Openland ified Red Pine Prescription plant RP Specs: Next Step Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) Treatments: Acceptable Planted red pine with minor deciduous components. Regen: <u>Other</u> Percent to Treat = 100% Comment: Site Condition Proposed Start Date: 10/1 /2024

Site Condition

Proposed Start Date: 10/1 /2024

81 72279081-ccr 7.8 310 - Herbaceous Nonstocked 0 Unspec Harvest Clearcut with 429 - Mixed Even-Aged No Openland ified Retention Upland Conifers

Prescription Final harvest 2"+ DBH except for retention: exclude the far east end where most of the supercanopy RP-WP are located and leave the few individual supercanopy pine that occur elsewhere in the stand. Exclude the sparse cover around the upland opening stand 80. Cut the operable transition ground edge bordering the swamp. Treatment boundary has been edited to approximate the intended

inclusions/exclusions. The two NW islands of the stand are separated from each other and the main stand by lowland swales. Evaluate conditions at time of sale prep and exclude if access concerns warrant. Protect the adjacent wetland stands.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

<u>Acceptable</u> Includes a mix of pine, fir & spruce with oak, aspen & paper birch.

Regen:

Other Create horizontal cover along the swamp edges. This stand had two-track access from the tip of the mit stand 89. That grown-in road crosses a low swale connector between the flanking wetland stands 82 & 84. Winter access &/or crane mats are indicated. Old next step

comments: Natural regen survey. Acceptable regen is a mix of pine, fir & spruce with oak, aspen & paper birch.

Site Condition

Proposed Start Date: 10/1 /2015

Compartment: 279

Year of Entry: 2026

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

89 72279089-10.2 42210 - Natural Sawtimber 76 81-110 Harvest Shelterwood with 429 - Mixed Two-Aged No Red Pine Medium Retention **Upland Conifers** shwd

Prescription Designate-cut merch stems except the RP-WP. Mark the mature RP-WP into seed tree range; thin within immature pockets, and --Specs: regardless of age -- thin only along the south edge stream RMZ. Because of the variable distribution of mature & immature pine, overall average residual will land in the shelterwood-seed range. Leave all supercanopy RP-WP legacy trees. Retention will consist of the legacy

Monitoring, Natural Regen (Intermediate) Next Step

Treatments:

Acceptable Includes a mix of pine, fir, spruce, aspen & mixed deciduous. Areas with thinning-level residual will not be expected to have regen.

Regen:

Other Most of the parent stand had JP-O-A removed in 1997, without addressing the RP-WP. This harvest focuses on two areas of denser cover Comment: that had little or no cutting due to boundary exclusion or a preponderance of designated-leave species (RP-WP). The treatment boundary has been edited to approximate the intended inclusions/exclusions. Old next step comments: Natural regen survey. Acceptable regen includes a mix of pine, fir, spruce, aspen & mixed deciduous. Areas with thinning-level residual will not be expected to have regen.

Site Condition

Proposed Start Date: 10/1 /2015

Shelterwood with 42260 - Natural 72279095-18.4 42290 - Natural Sawtimber 54 51-80 Harvest Nο 95 Two-Aged Mixed Pine Retention Pine, Mixed shwd Poor Deciduous

Specs:

Prescription Cut merch stems except the RP- WP. Mark the mature RP-WP into seed tree range; thin within pockets of immature pine, and -- regardless of age -- thin only by the stream RMZ. Because of the variable distribution of the mature & immature pine, overall average residual will land in the shelterwood-seed range. Leave all supercanopy RP-WP legacy trees. Focus on removing pine to improve spacing & operability, reduce impact on expected regen, release immature pine, and harvest sawtimber that are moving beyond utilization. Retention will consist of thel legacy RP-WP. Exclude from the harvest boundary portions to the south & east that have sparser mature pine cover &/or patches of the 1988 year of origin aspen. The treatment boundary has been edited to approximate the intended exclusions. Evaluate during sale prep and onsider excluding the small triangle alongside the stream corridor stand.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Includes a mix of pine, fir, spruce, aspen & mixed deciduous. Areas with thinning-level residual will not be expected to have regen.

Regen:

Protect the adjacent wetland stands. Protect survey corner witness trees. Old next step comments: Natural regen survey. Acceptable Other Comment: regen includes a mix of pine, fir, spruce, aspen & mixed deciduous. Areas with thinning-level residual will not be expected to have regen.

Site Condition

Proposed Start Date: 10/1 /2015

100 72279098-thin 2.0 42290 - Natural Sawtimber 45 51-80 Harvest Crown Thinning 4221 - Natural Even-Aged Nο Mixed Pine Medium Red Pine

Prescription Mark RP down into thinning range. Leave all supercanopy RP-WP legacy trees. Expand SE boundary to harvest the band of mature aspen in adjacent stand 100. The harvest boundary has been edited to approximate the intended inclusion. Specs:

Next Step Treatments:

<u>Acceptable</u>

Regen:

Other May site landing off SW corner of stand but protect the DNR-surveyed base station point (carsonite marker nearby). Old next step

Comment: comments: Intermediate harvest. No regen survey needed.

Site Condition

Proposed Start Date: 10/1 /2015

Grayling Mgt. Unit Report 3 -- Treatments Compartment: 279 S Year of Entry: 2026 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n Method Name CoverType Density Age Range Type Objective Structure Cut Ч 104 72279104-ccr 310 - Herbaceous Nonstocked Unspec Harvest Clearcut with 413 - Aspen Even-Aged No ified Openland Retention Prescription Final harvest 2"+ DBH except for retention leave the supercanopy RP-WP legacy trees and exclude the low ground on the west end. The Specs: treatment boundary has been edited to approximate the intended exclusions. Monitoring, Natural Regen (Re-Inventory) Next Step Treatments: Acceptable Includes aspen, RM & mixed conifers. Regen: **Other** An ephemeral drains crosses through the west end in the area to be excluded. Protect the adjacent wetland stands. Old next step comments: Natural regen survey. Acceptable regen includes aspen, RM & mixed conifers. Comment:

Site Condition

Proposed Start Date: 10/1 /2015

Total Treatment Acreage Proposed: 265.4

Compartment: 279

**Grayling Mgt. Unit** 

Joan Charlebois : Examiner Year of Entry: 2026

Availa	ability for	Managemen	nt										
Total	Acres	Acres Avail	Acres		Domina	nt Site	Con	dition	s				
Acres	Available	With Condition	Not Available		2B	2D	5C	1C	2G	2H	3J	3K	5E
65	38	0	27	Aspen						5		21	1
13	13	0	0	Bog									
21	0	0	20	Cedar					20				
55	55	0	1	Herbaceous Openland			0		0				1
319	306	1	12	Jack Pine		1			0			12	
45	44	0	0	Low-Density Trees					0				0
201	18	0	183	Lowland Conifers				0	170			11	2
4	0	0	4	Lowland Deciduous							4		
182	182	0	0	Lowland Shrub			0				0		0
82	6	0	76	Lowland Spruce/Fir			0		71			3	1
188	90	47	51	Natural Mixed Pines		34	13	0	0	23	1	25	1
58	40	18	0	Red Pine			18				0		
26	0	0	26	Tamarack					25	1			0
31	31	0	0	Treed Bog			0					0	
18	0	17	2	Upland Conifers	4	13				2			
34	29	5	0	Upland Mixed Forest		5							
9	9	0	0	Urban									
8	8	0	0	Water									
1,359	868	87	404	Total Forested Acres	4	53	31	1	287	31	6	73	6
· · · · · ·	64%	6%	30%	Relative Percent		-	-	-	-	-	-	-	-

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

1 Unavailable 2G: Too wet (sensitive 5 Unspecified Uns
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Comments:

# **Report 4 – Site Conditions**

**Grayling Mgt. Unit** 

Joan Charlebois : Examiner

ensitive 8 include ues)  ensitive 30 include ues)			nd a higher proportion in the the adjacent aspen stan  Unspecified  Unspecified	
ensitive 30 include			·	
include ues)	Unspecified	Unspecified	Unspecified	Unspecified
include ues)	Unspecified	Unspecified	Unspecified	Unspecified
and supports dense t	ree cover but the core in	nterior is sparse and barely	above treed bog status.	
	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Retention 2	Unspecified	Unspecified	Unspecified	Unspecified
nd 43's harvest.				
Retention 1	Unspecified	Unspecified	Unspecified	Unspecified
1	d 43's harvest.	d 43's harvest.  etention 1 Unspecified	d 43's harvest.  etention 1 Unspecified Unspecified	d 43's harvest.

# Report 4 - Site Conditions

Compartment: 279

Year of Entry: 2026 Joan Charlebois: Examiner 8 2 Unspecified Unspecified Unspecified Unspecified Unavailable 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) Comments: Upland finger that extends from the adjacent private to the east. Access from state is blocked by low ground. Unknown if the adjoining upland private property is similarly cut off by lowlands. Unspecified Unspecified Unspecified 9 Unavailable 2G: Too wet (sensitive 7 Unspecified soils, does not include access issues) Comments: Saturated ground; standing water between the hummocks. Degree of flooding influenced by beaver activity on drainage to SE on private. 10 5A: Not able to obtain Unspecified Unspecified Unspecified Unavailable 2G: Too wet (sensitive 20 desirable regeneration soils, does not include access issues) Comments: The stand has a drier transition ground edge and small PArVCo islands, but the majority is saturated (black muck with standing water visible through the root mat). 11 2 Unspecified Unspecified Unspecified Unspecified **Available** 5C: Delay treatment for age/size class diversity or exceptional site quality Comments: Pine island in the swamp. Doesn't meet the criteria for Type I or II old growth, but has a significant legacy tree component (RP & WP). Even if the stand was accessible, would not recommend harvesting. Unspecified Unspecified Unspecified Unspecified 12 Unavailable 2G: Too wet (sensitive 12 soils, does not include access issues) Comments: Aside from the pine island, the stand has saturated to flooded ground. An ephemeral drain empties into this stand from the NE.

Gravling Mat. Unit

# **Report 4 – Site Conditions**

Grayling Mgt. Unit

Joan Charlebois : Examiner

13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
	Comments:						
	Aside from the tran	nsition ground edge, this stand re	anges	from very wet ground with spa	rse canopy cover to sl	ghtly less flooded ground w	ith dense cedar cover.
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Natural pine stand	does not meet criteria for thinni	ng at t	his time.			
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	66	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Aside from the tran	nsition ground edge, this stand is	s very	wet. Ephemeral drainages ori	ginate within the stand	and flow west and south	
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Too wet except for	the transition ground edge.					
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Pine island surrour	nded by lowland shrub wetland.					

# **Report 4 – Site Conditions**

Grayling Mgt. Unit
Joan Charlebois : Examiner

18	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	13	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Reaching this block	κ of land will require a temporar	y bridge	e and composite mats.			
19	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
	Comments: Accessing this star	nd would require a bridge & crar	ne mats	, or permission to cross priva	ate property.		
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: The operable trans	ition ground edge could be trea	ted con	current with adjacent upland	stands; the core interior	is too wet.	
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	Unspecified	Unspecified	Unspecified	Unspecified
		turated ground. The N1/2 has g r transition ground edge could b				ot much above tree bog, wit	h poorer stocking &
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	26	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Reaching this block	k of land would require a bridge	and cra	ane mats, or road-building th	rough a swamp.		

# Report 4 - Site Conditions

Compartment: 279

Year of Entry: 2026 Joan Charlebois: Examiner Unspecified 23 8 2H: Blocked by physical Unspecified Unspecified Unavailable 3K: Rare or unique obstacle (e.g. upland landforms stand in a lowland area) Comments: Pine island surrounded by lowland shrub wetland. Borders an MNFI-identified northern fen ERA, with protection comments indicating leaving a 100-200 meter buffer around the FRA. This stand lies within 200 meters of the FRA. Unspecified Unspecified 24 **Available** 2D: Portable Bridge 35 Unspecified Unspecified Needed (Dept. bridge will be adequate) Comments: Access from the south would require a portable bridge & crane mats. Access from the north may be achieved through crane mats/winter road building to cross 2-3 chains of lowland transition ground. 25 48 Unspecified Unspecified Unspecified Unspecified Unavailable 3K: Rare or unique landforms Comments: Borders an MNFI-identified northern fen ERA, with protection comments indicating leaving a 100-200 meter buffer around the ERA. This block lies within 200 meters of the ERA. 26 Unavailable Unspecified Unspecified Unspecified Unspecified 3K: Rare or unique 17 landforms Comments: Borders an MNFI-identified northern fen ERA, with protection comments indicating leaving a 100-200 meter buffer around the ERA. This portion of the stand lies within 200 meters of the ERA. Unspecified Unspecified Unspecified Unspecified 27 Unavailable 5 2G: Too wet (sensitive soils, does not include

Comments:

Gravling Mat. Unit

access issues)

# Report 4 - Site Conditions

Compartment: 279

Year of Entry: 2026 Joan Charlebois: Examiner 28 Unspecified Unspecified Unspecified Unspecified **Available** 2B: Unknown if access 4 through adjacent landowner(s) is possible Comments: This portion of Polly Trail is not County road and it crosses private property to the west & east of where it intersects the stand. Check Consumers Power deed regarding easement rights. 5E: Long-Term Retention Unspecified Unspecified 29 Unavailable 1 Unspecified Unspecified Comments: Pine islands left in swamp from stand 43's harvest. 30 Unavailable 2G: Too wet (sensitive 5 2D: Portable Bridge Unspecified Unspecified Unspecified Needed (Dept. bridge soils, does not include will be adequate) access issues) Comments: Aside from the transition ground edge, the water table is too high. 31 Unspecified Unspecified Unavailable 2G: Too wet (sensitive 19 Unspecified Unspecified soils, does not include access issues) Comments: This stand has operable transition ground edge as well as a PArVCo band across the north half, but the majority low ground has either tag alder or thick leatherleaf cover. 33 Unavailable 3J: Water quality / BMPs 1 Unspecified Unspecified Unspecified Unspecified (stream, river, or lake) Comments: Narrow triangle of stand 95 excluded during sale prep. Excluding the north edge RMZ would reduce the harvest block to less than an acre hemmed in by stream corridor, roads and private property. Unspecified Unspecified 34 Unavailable 2H: Blocked by physical Unspecified 5E: Long-Term Retention obstacle (e.g. upland stand in a lowland area) Comments:

Designated retention excluded from stand 104 during sale prep. Is cut off by low swales.

Gravling Mat. Unit

# **Report 4 – Site Conditions**

Compartment: 279

**Grayling Mgt. Unit** 

Joan Charlebois : Examiner Year of Entry: 2026

35	Unavailable	1C: Other dept or div proc/practices	1	Unspecified	Unspecified	Unspecified	Unspecified
_	comments: ee locked comme	nts					
36	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
T	wo islands of high	ground separated from the res	t of stand	81 by low swales. Excl	uded from stand 81's treat	ment during sale prep.	
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
_	comments: side from the tran	sition ground edge and PArVCo	islands,	the stand's core is too w	et.		
38	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
_	comments: Designated retention	on for stand 77's harvest.					
40	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	comments: Retention islands to	protect interior and adjacent b	ogs and a	an ephemeral drainage f	or stand 68's harvest.		

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Mgt. Unit

Compartment: #Type! Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Grayling Mgt. Unit Compartment: 279
Year of Entry 2026



# Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

Conservat Area	ion 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 condit stocked trout populations and those of other coldwater fish spe conditions for coldwater fishes may occur in Michigan lakes if t groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisherie	cies to persist from year to year. Suitable hey are relatively deep, have substantial of the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen corstocked trout populations and those of other coldwater fish speyear to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such stream designated as trout resources by Fisheries Order 210.	ecies (e.g., slimy sculpin) to persist from nese conditions due to substantial
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and W proposed for legal dedication, but for which legal dedication by nomination process is defined by Part 351, Wilderness and Na Environmental Protection Act, 1994 PA 451. The program is acrequire the submittal of a Natural Areas Nomination Packet to proposed sites in various stages of review. Final dedication of Areas is accomplished through legislative action.	legislature has not occurred. The trunk tural Areas, of the Natural Resources and dministered by the DNR. Nominations the DNR. This is an active program, with
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated include the 5,847 acre Forest Fire Experiment Station, the 12,0 Area, the Beaver Islands Archipelago Wildlife Research Area (High and Hog Islands, all state owned land on Beaver, South F Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries R Nursery, and over 144,000 acres of Military Lands.	2000 acre Houghton Lake Wildlife Research that includes most of Garden Island, all of Fox and North Fox Islands), the Cusino
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems influences the aquatic ecosystem and vice-versa. Because of t streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their eff as aesthetics, habitat, bank stability, timber production, and the	he unique conditions adjacent to lakes, n diversity of plants and wildlife. Riparian fects on water quality and quantity, as well
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and counte U.S. Fish and Wildlife service for the recovery of threatener Part 365, Endangered Species Protection, of the Natural Resonance 1994 PA 451, and the Federal Endangered Species Act of 197 species plans in various stages of review. As of now only two Plover Habitat.	d and endangered species, as governed by urces and Environmental Protection Act,  3. This is an active program, with proposed
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and and Environmental Protection Act, 1994 PA 451. The program require the submittal of a Natural Areas Nomination Packet to the proposed sites in various stages of review. Final dedication of Areas is accomplished through legislative action.	is administered by the DNR. Nominations the DNR. This is an active program, with
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from a approved distance from the river centerlines. The Natural River most Natural Rivers. The Vegetative Buffer ranges from 25 to	ers Zoning District is a 400 foot buffer for
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples identified as Element Occurrences (EOs) by the Michigan Natu context of their natural community classification system. Eleme (Excellent) or B (Good) and a Global (G) or State (S) element (threatened (2), or rare (3) serve as an initial base of ERAs. The the State. The system is comprised of individual or association managed for restoration and maintenance of natural ecological submit recommendations for lands as ERAs using the DNR Co	ural Features Inventory (MNFI) within the ent Occurrences with viability ranks of A (rarity) ranking of endangered (1), by may be located upon any ownership in s of natural community types that are I processes and values. The public may

Year of Entry: 2026

Compartment: 279

Stand	Level 4 Co	over Type	Si	ze De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
1	6220 - A	lder/willow	١	Nonsto	cked	1.0	l	Jnspecified	No		2014 edge comments: Was within the 1976 (#42-75) harvest area and may also have burned in 1990. It is a non-forested wetland now, with dense tag alder, some salix, and perimeter aspen, JP, spruce & fir.
2	4311 - Pine	e, Aspen M	lix Po	letimb	er Well	5.0	34	81-110	N/A		Merch JP & A were cut in 1970 (#13-70), then the north half burned in
(	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	1990, establishing a younger age class of aspen & JP there. Stand's 1st age is set to the fire and 2nd age to the 1970 harvest. WP is mainly in
	Red Pine	5	XLog/Log/Pole	20		Ta	ag Alder	Trace	5 - 10 feet	Tall Shrub	the unburned south half. Xlog RP & WP rim the creek floodplain. There
	Jack Pine	5	Pole/Sapling	6	34	WI	nite Pine	Medium	Variable	Sapling	is a small tag alder inclusion in the stand's north half, and a beaver
C	Quaking Aspen	50	Pole/Sapling	6	34	Ва	lsam Fir	Low	Variable	Sapling	clearing. Small patch of phragmites was found on the edge of stand 4 in 2024 (see NW Reference point).
	White Pine	25	Pole/Log/XLog	8	54						2024 (See 1444 Reservince pointy).
	Balsam Fir	10	Pole/Sapling	5							
l	Black Spruce	5	Pole/Sap/Log	6							
3	42220 - Nat			letimb	er Well	15.5	34	51-80	N/A		2014 field comments: Burned trees were salvaged in 1990 (#30-90-2) after the Stephan Bridge Road fire. The stand regenerated to densely-
(	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stocked JP with stump-origin NPO and small clones of aspen. Scattered
	Jack Pine	83	Pole/Sapling	5	34	Blac	ck Cherry	Trace	Variable	Tall Shrub	
	Red Pine	3	XLog/Log	20							of low ground with leatherleaf on the W-center edge and intermediate ground along the S edge. The stand is still transitioning into the pole
C	Quaking Aspen	7	Pole/Sapling	5	34						class but has crossed the 30% threshold to call it pole overall.
No	orthern Pin Oak	5	Sapling/Pole	4	34						
	Black Cherry	2	Pole	6							
4	6220 - A	lder/willow	٨	Nonsto	cked	8.7	L	Jnspecified	No		Drawn-down beaver marsh has been filling in with salix & tag alder. A permanent stream flows through it. NWC & WP snags are common, with Q scattered along the stand margins. Small patch of phragmites was found at the edge of stand 2 in 2024.
5	42210 - Nat	ural Red P	ine Saw	timber	Medium	n 3.7	93	111-140	N/A		2014 field comments: Small stand of RP sawtimber bordering Dyer
(	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Truck Trail. Burned trees were salvaged in 1990 (#30-90-2) after the Stephan Bridge Road fire. Sparse on the margins where it burned
	Balsam Fir	3	Pole/Sapling	6		Blac	ck Cherry	Trace	Variable	Tall Shrub	hottest. Some fire-regenerated JP & NPO below. The far east end didn't
No	orthern Pin Oak	2	Log/Pole	12		Ja	ack Pine	Low	10 - 20 feet	Sapling	burn as hard; it has small amounts of fir, oak, aspen & WP. RP
	White Pine	5	Log/Pole/XLog	10		North	ern Pin Oak	Trace	10 - 20 feet	Sapling	overstory age range 70-100 years old, ave 83. 2024 update: some of the fire-regenerated JP is recordable in the canopy now. Widely-variable
	Red Pine	80	Log/Pole/XLog	14	93	R	ed Pine	Trace	5 - 10 feet	Sapling	RP stocking; densest in the middle third.
C	Quaking Aspen	1	Log/Pole	12							•
	Jack Pine	9	Pole	6							



Stand	Level 4 C	over Type	S	ize De	nsity	Acres	Stand Age I	BA Range	Managed 9	Site	General Comments
6	6124 - Lowl	and Spruce	-Fir Pole	etimbe	r Mediur	n 14.1	34	81-110	N/A		2014 field. Most of the stand was final harvested in 1976 (#42-75),
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	except for the far NE 1.2 acres (2nd age was from the mature RM there) The 1990 Stephan Bridge Road fire then burned across approximately
	Tamarack	5	Sapling/Pole	4	34	Ва	alsam Fir	Low	5 - 10 feet	Sapling	50% of the harvested area. Timber in the burned areas (mostly in the
	White Pine	1	Pole/Sap/Log	8		Ta	ag Alder	Medium	10 - 20 feet	Tall Shrub	N1/2) was salvaged later that year (#30-90-2). The stand occupies
	Red Pine	1	Log/Pole	10		Blad	ck Spruce	Low	5 - 10 feet	Sapling	majority saturated ground and picks up transition ground along stands 3 & 15. All species have fire-origin & cut-origin age classes but only one
	Black Spruce	40	Sapling/Pole	4	34					'	age could be assigned to each. The fire-origin cover is sapling-pole in
	Jack Pine	5	Pole	6	34						size and the cut-origin material is pole-sap-log.
	Quaking Aspen	20	Pole/Sap/Log	6	48						
	Red Maple	5	Log/Pole	11	85						
	Balsam Poplar	8	Pole/Sap/Log	6	48						
	Balsam Fir	15	Sapling/Pole	4	34						
7	500	- Water		Nonsto	ocked	1.5	l	Unspecified	No		Small beaver pond.
8	4133 - Aspe	en, Mixed P	ine Po	oletimb	er Well	4.9	34	51-80	N/A		2014 field comments: Burnt in 1990 Stephan Bridge Road fire.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	Regenerated to aspen, with JP in the NW and spruce on the perimeter.  A few surviving RP saw are in the east end. The stand is upland overall
	Quaking Aspen	55	Pole/Sapling	5	34	Ta	ag Alder	Low	10 - 20 feet	Tall Shrub	but has a tag alder swale cutting up through the middle, and transition
	Red Pine	5	XLog/Log	20						,	ground on the perimeter. Some beaver felling there.
	Bigtooth Aspen	15	Pole/Sapling	6	34						
	Black Spruce	5	Sapling/Pole	4							
	Balsam Poplar	5	Pole/Sapling	5	34						
	Jack Pine	15	Pole/Sapling	5	34						
9	42290 - Nati	ural Mixed F	Pine Saw	vtimbei	Mediun	n 20.8	73	81-110	N/A		2014 field comments: Mixed pine stand with immature to overmature components. Fire-scarred supercanopy RP scattered across the stand
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	seeded in the canopy-dominant RP saw (1st age). Overmature JP saw
	Red Maple	2	Pole/Log	7		Ja	ack Pine	Low	10 - 20 feet	Sapling	shares that canopy level but is top-dying and breaking up. Below the RF
	Quaking Aspen	5	Log/Pole	12		Bla	ck Cherry	Low	Variable	Tall Shrub	& JP is a codominant-intermediate layer of WP with fir, aspen, spruce,
١	lorthern Pin Oak	2	Log	12		Blad	ck Spruce	Low	Variable	Sapling	RM & declining NPO. WP & balsam fir are filling in where the JP is dropping out. The 1990 fire burned into the NW & SE edges of the
	Jack Pine	5	Log	14		Ва	ılsam Fir	Low	Variable	Sapling	stand. The NW spot fire patch filled in with JP & WP. The SE spot fire it
	Black Spruce	6	Pole/Sap/Log	7		WI	hite Pine	Low	Variable	Sapling	still sparse.
	Red Pine	40	Log/Pole/XLog	15	73					,	•
	White Pine	30	Log/Pole	11	53						
	Balsam Fir	10	Pole	7							
10	6121 -	Tamarack	Pole	etimbei	r Mediur	n 4.2	114	1-50	N/A		2014 field comments: Marginal tamarack and spruce stand with traces of RM, paper birch & WP. Cover is dense on the transition ground edge,
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	but the rest of the stand is sparse, growing over tussock sedge/marsh
	Tamarack	75	Pole/Sap/Log	7	114	Та	amarack	Low	Variable	Sapling	grass with standing water, spots of cattail. Porcupine damage common
	Black Spruce	25	Pole/Sap/Log	6		Blad	ck Spruce	Low	Variable	Sapling	in the tamarack, black spruce with spindly tops.
	Black Oprace	20	· 0.0/ 0 ap/ = 0 g				on opiaco	2011	1 0110010	Capining	



Stand	Level 4 C	Level 4 Cover Type		Size Density		Acres Stand Age BA Range		Managed S	Site	General Comments	
12	6220 - A	lder/willow	I	Nonstocked		6.4	Unspecified	No		2014 edge comments: Tag alder with scattered spruce and tamarack, NWC snags, and a sub-acre patch of marsh by the creek.	
13	6129 - Mixed Conife	erous Lowla	and Forest Pole	timbe	· Mediur	m 38.8 119	51-80	N/A		2014 field comments: Mixed conifer swamp on saturated ground. The	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spec	ies Density	Avg. Height	Size	stand's north half has water visible in root mat holes but is on richer ground than in the south half. Much of the south half is growing on bog	
	Tamarack	45	Pole	7	119	Balsam Fir	Low	Variable	Sapling	conditions, with sparser cover and smaller diameters; canopy closure	
	Balsam Fir	3	Pole/Sapling	6		Black Spruce	Low	Variable	Sapling	drifts off the low end of 50-75% there. Species distribution varies from	
	Black Spruce	40	Pole/Sapling	6	135	Tag Alder	Medium	10 - 20 feet	Tall Shrub	majority tamarack to majority black spruce, with the cedar concentrated in two patches of slightly drier ground in the NW & NE peninsulas. Very	
	White Pine	5	Pole/Log	7			,	1	'	slow-growing tamarack cored 150 years - did not average that one into	
No	rthern White Cedar	7	Log/Pole	12						the 1st age.	
14	6220 - A	lder/willow	1	Vonsto	ocked	0.9	Unspecified	No		2014 edge comments: Flooded tag alder swale with Q/E on the margins. An intermittent stream flows west through it, draining the adjacent swamp stand 13.	
15	42290 - Natu	ıral Mixed F	Pine Sa	wtimb	er Well	49.6 92	111-140	N/A		2014 field comments: A significant amount of overstory removal was	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spec	ies Density	Avg. Height	Size	apparent on the 1938 aerial photos. Aside from the scattered xlog RP-WP, most of the current pine canopy was sapling-sized at the time of	
	Balsam Fir	8	Pole	7		White Pine	Medium	Variable	Sapling	harvest or seeded in afterwards. The mediam RP saw is around 90	
	Black Spruce	9	Pole/Log/Sap	7		Black Spruce	Low	Variable	Sapling	years old. The overmature breaking up JP is in its early 80's, and the	
	Red Maple	3	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling	intermediate-codominant pole-log WP is a couple decades younger.  Canopy dominance shifts back and forth between the RP-JP-WP across	
1	Northern Pin Oak	2	Log/Pole/XLog	15						the stand. Minor associates include aspen (beaver periodically started	
	Red Pine	40	Log/Pole	14	92					new age classes), poor quality NPO, RM, and fir-spruce (concentrated	
	White Pine	30	Log/Pole/XLog	10	60					along the lowland edge). Snow load breakage in the densely stocked WP & BF poles. WP branch flagging common. 2024 update: much of	
	Quaking Aspen	3	Pole/Log	8						the overmature JP & NPO has dropped out of the canopy. Branch	
	Jack Pine	5	Log/Pole	13	83					flagging in the WP understory is far less prevalent.	
16	6122 - BI	ack Spruce	Pole	timbe	Mediur	m 4.5 75	51-80	N/A		2014 field comments: Lowland spruce stand with variable canopy closure. Dense spruce cover over sphagnum moss alternates with	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spec	cies Density	Avg. Height	Size	sparse cover over full tag alder/standing water. Best growth is on the	
	Red Maple	5	Log/Pole	12		Black Spruce	Low	Variable	Sapling	drier transition ground. RM, fir, aspen and paper birch are strung along	
	Quaking Aspen	2	Pole/Log/Sap	7		Balsam Fir	Low	Variable	Sapling	the upland edge.	
	White Pine	3	Log	12		Tag Alder	High	5 - 10 feet	Tall Shrub		
	Balsam Fir	10	Pole/Sapling	6						-	
	Black Spruce	80	Pole/Sapling	6	75						



Stand	Level 4 C	vel 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		Site	General Comments						
17	429 - Mixed l	Jpland Cor	nifers Pole	timbe	Medium	12.7	34	51-80	N/A		2014 field comments: Was salvaged in 1990 (#42-90-02) after the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Stephan Bridge Road fire, merch stems except only the marked RP & WP. Large residual RP & WP survived on the lee side of stand 16.
	Jack Pine	40	Pole	5	34	Ta	g Alder	Trace	10 - 20 feet	Tall Shrub	Regen from the fire alternates between dense JP & aspen. Two LDT
	Balsam Poplar	2	Pole	6	34	Bal	sam Fir	Low	Variable	Sapling	inclusions, one in the NW and a larger one in the SE, drag the canopy
	Black Spruce	8	Sapling/Pole	4		Blac	k Spruce	Low	Variable	Sapling	closure down into the 50-75% range. Fir, spruce and balsam poplar rim the lowland edges.
N	lorthern Pin Oak	3	Sapling/Pole	4	34	Wh	ite Pine	Low	Variable	Sapling	the lowland edges.
	Red Pine	10	Pole/Log/XLog	8							
	White Pine	5	Pole/Log/XLog	8							
	Balsam Fir	2	Sapling	2							
(	Quaking Aspen	30	Pole	5	34						
18	6229 - Mixeo	l lowland s	hrub N	Nonsto	ocked	53.1	ι	Jnspecified	No		2014 edge comments: Large beaver meadow with mixed lowland shrub cover filling in: tag alder, sweet gale, salix, spiraea, bog birch, leatherleaf, shrubby cinquefoil and bog laurel. The stand picks up small upland islands and scattered colonizing Q along the perimeter. Snags common.
19	500 - Water Nonstocked		ocked	1.3		Jnspecified	No		2014 edge comments: Open water with yellow pond lily, behind beaver dam.		
20	42220 - Nat	ural Jack F	Pine S	Sapling		2.0	34	1-50	N/A		Spot fire from the Stephan Bridge Road fire. Filled in with dense JP cover. Xlog RP scattered along the perimeter.
	Canopy Species	% Cover	Size Class	DBH	Age						cover. Alog IVI Scattered along the perimeter.
	Red Pine	2	XLog	22							
	Jack Pine	98	Pole/Sapling	5	34						
21	622 <sup>-</sup>	1 - Fen	١	Nonsto	ocked	26.7	ι	Jnspecified	No		2014 edge comments: Beaver marsh with varying water levels, flooded to south. Cover is sedge/marsh grass with colonizing sweet gale, some patches of tag alder and spiraea, and snags near the upland edge. Adjacent to an MNFI-identified Northern Fen ERA on the other side of the creek.
22	500 -	- Water	1	Nonsto	ocked	5.6	l	Jnspecified	No		2014 edge comments: Water backed up behind beaver dam, with some floating aquatic plants (yellow pond lily, etc.).
23	42220 - Nat				Medium	8.0	87	51-80	N/A		2014 field comments: Pine island surrounded by lowland shrub wetland. A significant amount of overstory removal is apparent on the 1938 aerial
	Canopy Species		Size Class	_	Age		nopy Species		Avg. Height	Size	photos. Aside from the scattered xlog RP, most of the current pine
(	Quaking Aspen	15	Pole/Log	8			sam Fir	Low	Variable	Sapling	canopy was sapling-sized at the time of harvest or seeded in afterwards.
	Jack Pine	60	Log/Pole	11	87		ite Pine	Low	Variable	Sapling	The overmature JP has been dropping out of the canopy. Minor associates include RP of all size classes, poor quality NPO, aspen
N	lorthern Pin Oak	10	Log/Pole	12		Black	k Spruce	Low	Variable	Sapling	(beaver periodically started new age classes), WP & spruce.
	Red Pine	10	Log/XLog/Pole	15							
	White Pine	5	Pole/Log	9							



Stand	Level 4 C	el 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		Site	General Comments								
24	42220 - Nat	tural Jack F	Pine Po	letimb	er Well	1.5	40	51-80	N/A		2014 field comments: Island of high ground along Dyer Truck Trail, with an old borrow pit. The overmature JP is dying out, being replaced by		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	Species	Density	Avg. Height	Size	pole-sapling JP. Black spruce and tamarack rim the lowland edge.		
	Red Pine	3	Pole/Log	7		Jack Pi	ine	Low	Variable	Sapling			
	Jack Pine	20	Log	10	96	Black Ch	nerry	Low	5 - 10 feet	Tall Shrub			
	Black Spruce	3	Pole/Sapling	5		Black Sp	ruce	Low	Variable	Sapling			
	Tamarack	2	Pole/Sapling	5									
	Jack Pine	70	Pole/Sapling	5	40								
	White Pine	2	Log/Pole	12									
25	42290 - Natu	ural Mixed	Pine Sa	wtimb	er Well	2.4	105	81-110	N/A		2014 field comments: Pine island surrounded by lowland shrub wetland.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	Species	Density	Avg. Height	Size	Xlog RP form a supercanopy layer above the main canopy of log-pole RI & WP. Minor associates include NPO, RM & aspen, with fir & spruce		
Ν	lorthern Pin Oak	5	Log	12		White P	Pine	Low	Variable	Sapling	along the lowland edge. Balsam fir & WP are filling in below.		
	Black Spruce	2	Pole	6		Balsam	Fir	High	Variable	Sapling			
	Red Maple	3	Log/XLog/Pole	14									
(	Quaking Aspen	2	Log	14									
	Red Pine	55	Log/XLog/Pole	17	105								
	Balsam Fir	3	Pole	7									
	White Pine	30	Log/Pole	11	55								
26	622 <sup>.</sup>	1 - Fen	1	Nonsto	cked	25.1	Uı	nspecified	No		2014 edge comments: MNFI-identified Barker Creek Northern Fen ERA Sedge/marsh grass with patches of <40% cover in short shrubs: sweet gale, shrubby cinquefoil, spiraea, bog birch, leatherleaf. Pitcher plant common.		
27	4319 - Mixed	d Upland Fo	orest Po	letimb	er Well	16.4	59	81-110	N/A		Was cut in 1965 (#36-64 & #15-65), merch JP & aspen, except for green		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	Species	Density	Avg. Height	Size	marked JP seed trees. Remaining merch JP, fir & spruce were cut in 1972 (#15-72). Under a deer range improvement FTP (#67-G) all stems		
(	Quaking Aspen	40	Pole/Log	8	59	Balsam	Fir	Low	Variable	Sapling	2"+ DBH except RP & WP were to be non-commercially cut. Marked RF		
	Black Spruce	4	Pole/Sap/Log	7		Black Ch	nerry	Trace	Variable	Tall Shrub	& WP sawtimber were removed between 1973-1975 (#23-72 & #6-74).		
	Jack Pine	3	Pole/Log	8		White P	Pine	Low	Variable	Sapling	The stand has aspen clones separated by variable cover in fir, RP, WP, JP & upland shrubs. Most of the xlog RP is not legacy, just open-grown		
	White Pine	5	Log/Pole/XLog	12		Red Pi	ne	Trace	Variable	Sapling	While the aspen age was set to the first harvest and the oak age to the		
	Red Maple	1	Log/Pole	12							last FTP, the series of cuts started new age classes within each species		
	Black Cherry	2	Pole	5							Despite being immature, the stump-origin oak has been declining & dying. The minority overmature aspen along the floodplain has largely		
Ν	lorthern Pin Oak	5	Pole	7	49						died out; dense fir cover there is also starting to collapse. The stand's		
	Balsam Fir	20	Pole/Sapling	7							bottleneck has a tag alder swale with ephemeral drainage to the west.		
	Red Pine	20	XLog/Log/Pole	20	96						There's ground close to the water table in the NE.		
28	6220 - A	Alder/willow		Nonsto	cked	17.6	Uı	nspecified	No		2014 edge comments: Tag alder over marsh grass on the Barker Creek floodplain. Some areas of open marsh. Snags common, with Q along the perimeter.		

12

8 58

7

Balsam Fir

Log/Pole/XLog

Pole/Log

Pole

Compartment: 279 Year of Entry: 2026



Stand	d Level 4 C	over Type	S	Size De	ensity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments	
29	6122 - BI	ack Spruce	•	Sapling	g Poor	4.5	44	1-50	N/A		2014 edge comments: Tag alder wetland that has been colonized	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	enough to cross into the forested category. Mostly black spruce with tamarack, and a trace of mature aspen on the west end. Seen from the	
	Tamarack	20	Sapling/Pole	3		Ta	ıg Alder	High	5 - 10 feet	Tall Shrub		
	Black Spruce	80	Sapling/Pole	3	44			'	1		nature of the colonization, the stand likely has multiple age classes.	
30	42290 - Natu	ıral Mixed I	Pine Sa	awtimb	er Well	10.6	54	81-110	N/A		2014 field comments: This shallow dry ridge flanking the floodplain has a mix of pine, aspen & oak, with perimeter spruce-fir. The WP & RP cover	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	ranges from pole to xlog in size. The median small saw WP are relatively	
	Red Maple	5	Log/XLog/Pole	14		Bal	Isam Fir	High	Variable	Sapling	young (1st age). The stand's 2nd age on the larger RP saw is likely also	
	Black Cherry	2	Pole	7		Blac	k Spruce	Low	Variable	Sapling	representative of the mature to overmature JP, oak, RM & spruce. Slash is building as the overmature components break up. Beaver were	
	Northern Pin Oak	10	Log/XLog	14		Wh	nite Pine	Low	Variable	Sapling	probably responsible for starting new age classes in the aspen.	
	White Pine	40	Log/Pole	12	54						Ephemeral drainages cross through the stand, connecting adjacent	
	Red Pine	25	Log/XLog/Pole	15	102						swamps to the creek floodplain.	
	Black Spruce	3	Log/Pole	10								
	Balsam Fir	3	Pole	7								
	Jack Pine	2	Log	14								
	Quaking Aspen	10	Log/Pole	10								
31	Dec Canopy Species	iduous % Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	2014 field comments: Was part of a larger harvest cut 2"+ DBH in 1987 (#001-87). This drier portion of the harvest area was roller chopped and hand-seeded to JP in fall 1989 (C72-222). Although the stand doesn't	
	Quaking Aspen	15	Pole/Sapling	5	37		ck Cherry	Medium	5 - 10 feet	Tall Shrub	have the appearance of a plantation due to the hand-seeding technique used, it meets the "planted" definition by having >50% cover in artificial	
	Bigtooth Aspen	2	Pole/Sapling	6	35		-		-		regen. Densely-stocked bands of JP alternate with poorer-stocked	
	Northern Pin Oak	8	Pole/Sapling	5	37						swaths. Open-grown form is common in those unseeded swaths. NPO	
	Balsam Fir	5	Pole/Sapling	6							stump sprouts are mixed in, along with small clones of aspen. Spruce-fir is concentrated along the swamp edge.	
	White Pine	1	Pole/Log	8							is consolitated along the enamp eage.	
	Jack Pine	60	Pole/Sapling	5	35							
	Red Pine	1	Pole/Log	8								
	Black Cherry	1	Pole	5	37							
	Red Maple	2	Sapling/Pole	3								
32	6129 - Mixed Conife	erous Lowl	and Forest Pole	etimbe	r Mediur	n 14.4	102	51-80	N/A		2014 field comments: Narrow lowland forested stand between the Barker	
	Canopy Species		Size Class		l Age		nopy Species	Density	Avg. Height	Size	Creek floodplain and the uplands. The stand is collectively a string of forested patches separated by sparse/marsh/shrub swales. The forested	
	Red Maple	5	Pole/Sap/Log	7		Re	d Maple	Low	Variable	Sapling	patches range from majority tamarack, to black spruce, to a mix of WP-	
	Red Pine	2	Log/XLog	15		Blac	ck Cherry	Low	Variable	Tall Shrub	aspen-RM on the slightly drier transition ground. Flood-killed snags are	
	Quaking Aspen	5	Pole/Log	8		Blac	k Spruce	Low	Variable	Sapling	common on the fen edge. First age was on the mature tamarack. 2nd age was on younger black spruce. Those age brackets are likely	
	Tamarack	45	Pole/Log	8	102	Ta	ıg Alder	Medium	Variable	Tall Shrub		
	Milette Diese	0	Las/Dala/VLas	40		Dal	La a sa Eta	1	\	0 1'	of the stand's species	

Low

Variable

White Pine

Black Spruce

Balsam Fir

8

25

10

of the stand's species.

Sapling



Stand	d Level 4 C	vel 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		Site	General Comments						
33	6122 - Bl	ack Spruce	Pole	timbe	r Medium	2.6	90	1-50	N/A		2014 field comments: Small swamp stand surrounded by uplands. Black
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	spruce & tamarack are growing above tag alder in standing water. Large WP rim the upland edge. An ephemeral drainage connects this stand
	White Pine	7	Log/XLog	14		Blad	ck Spruce	Low	5 - 10 feet	Sapling	with the Barker Creek floodplain.
	Red Maple	3	Log	10		Ta	amarack	Low	Variable	Sapling	
	Tamarack	20	Pole/Sapling	7		Ta	ag Alder	High	5 - 10 feet	Tall Shruk	
	Black Spruce	70	Pole/Sapling	7	90						
34	6220 - A	lder/willow	ı	Vonst	ocked	1.0		Unspecified	No		2014 edge comments: Flooded tag alder wetland with Low-Density Tree levels of tamarack, spruce & WP. An ephemeral drainage connects this stand to the Barker Creek floodplain.
35	4133 - Aspe	en, Mixed Pi	ine Po	letimb	er Well	13.8	36	81-110	N/A		2014 field comments: Was part of a larger harvest cut 2"+ DBH in 1988
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	(#004-87), but not much JP established from the subsequent hand- seeding FTP (C72-221). The stand regenerated more to A-RM and WP,
	Red Pine	2	Pole/Log	9		Bla	ck Cherry	Medium	Variable	Tall Shruk	with stump-origin NPO, some JP, and spruce-fir along the lowland edge.
	Red Maple	10	Sapling/Pole	3							Cover between the dense aspen clones tends to be open-grown.
	Black Cherry	1	Pole	6							
	Jack Pine	10	Pole/Sapling	6							
	Quaking Aspen	40	Pole/Sapling	5	36						
	Balsam Fir	2	Pole/Sapling	6							
	White Pine	20	Log/Pole	12							
	Black Spruce	5	Pole/Sapling	5							
	Northern Pin Oak	10	Pole/Sapling	5	36						
36	6122 - Bl	ack Spruce	Pole	timbe	r Medium	6.1	80	51-80	N/A		2014 edge comments: Black spruce and tamarack growing on saturated
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	sphagnum and tag alder covered ground. There are likely younger age classes of spruce on the transition ground edge, but time was not spent
	Red Pine	10	XLog/Log	22	198	Ta	amarack	Low	5 - 10 feet	Sapling	coring additional trees to document that. 2024 update: The stand picks
	Red Maple	3	Log	14		Blac	ck Spruce	Low	Variable	Sapling	up small islands of supercanopy pine; two of them were retention for stand 61's harvest (see Site Condition layer, 2nd age drawn from stand
No	orthern White Cedar	2	Log/Pole	12		Ta	ag Alder	Medium	5 - 10 feet	Tall Shrub	61's legacy pine).
	Black Spruce	60	Pole/Sapling	7	80	Ва	llsam Fir	Low	Variable	Sapling	
	Tamarack	25	Pole/Sap/Log	7							
37	6224	Treed Bog	ı	Vonst	ocked	1.1	ı	Unspecified	No		2014 edge comments: Treed bog: leatherleaf and Labrador tea with tamarack, black spruce, JP, RP & WP.
38	6224 - <sup>-</sup>	Treed Bog	1	Vonst	ocked	8.5	l	Unspecified	No		2014 edge comments: Leatherleaf bog with increasing cover in tamarack, spruce, WP & RP. The stand's south 1/3rd is also being colonized by taller shrub cover (salix, tag alder, spiraea & bog birch).
39	6224 - Treed Bog Nonstocked		ocked	1.7		Unspecified	No		2014 edge comments: Thick leatherleaf cover with scattered WP, black spruce, & tamarack.		



Stand	Level 4 Co	over Type	s	Size De	nsity	Acres	Stand Age I	BA Range	Managed \$	Site	General Comments
40	4134 - Aspe	en, Spruce/	Fir Po	oletimbe	er Well	12.9	37	51-80	N/A		2014 field comments: Was part of a larger harvest cut 2"+ DBH in 1987
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	(#001-87). Patches to the N & NE were roller chopped and hand-seeded to JP in fall 1989 (C72-222). This lowland portion of the harvest saw little
	White Pine	5	Pole/Log	8		Blac	ck Cherry	Trace	Variable	Tall Shrub	of the planting, and instead regenerated to quaking aspen with balsam fir
	Quaking Aspen	65	Pole/Sapling	5	37	Ва	Isam Fir	Medium	Variable	Sapling	and balsam poplar. There is some dry ground by the road but most of
	Balsam Fir	18	Pole/Sapling	6		Та	ng Alder	Low	10 - 20 feet	Tall Shrub	this stand is on intermediate to low ground, dissected by flooded tag alder swales, with intermittent drainage to the west. Tag alder cover is
	Balsam Poplar	5	Pole/Sapling	5	37					,	high along the swales but averages to low overall. There isn't a distinct
	Black Spruce	2	Pole/Sapling	5							boundary between this majority lowland portion of the 1987 harvest and
	Red Maple	5	Sapling/Pole	3							stand 47's majority upland portion of the same harvest.
41	6224 - 1	Γreed Bog		Nonsto	cked	1.2	l	Jnspecified	No		2014 edge comments: Atypical treed bog: leatherleaf cover with taller shrubs colonizing in addition to the expected conifers. Colonizers include bog birch, tag alder, salix, spiraea, spruce & tamarack.
42	6224 - 1	Treed Bog		Nonsto	cked	1.3	l	Jnspecified	No		2014 edge comments: Thick leatherleaf cover with scattered WP, black spruce, & tamarack. South edge overlaps the 1988 harvest area.
43	310 - Herbac	eous Open	land	Nonsto	cked	19.3	0 ι	Jnspecified	4211 - Planted	Red Pine	Naturally-established mixed pine stand with declining NPO was final
						Sub-Ca	nopy Species	Density	Avg. Height	Size	harvested with retention by early 2021 (#639-17), cutting stems 1"+ DBH except boundary-excluded retention and green-marked (resid BAs: 3 RP.
						Re	ed Pine	Trace	>20 feet	Log	1 WP, tr WO). Most of the residual pine was legacy stature. Will be
											planted to RP (C72-909). FRD trenched April 2022. TMS recon in 2023 did not find competition warranting site prep herbicide. Will cancel that step and go straight to planting. Was scheduled to be planted in 2024 but the nursery ran short on trees; it will now be planted in 2025.
44	6122 - Bl	ack Spruce	Pole	etimber	Mediun	n 19.9	92	51-80	N/A		2014 field comments: The southern 2/3rds of the stand is growing on
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	bog conditions. The north 1/3rd has a band of drier PArVCo ground, with saturated, tag alder-covered ground on its north edge. The PArVCo band
	Tamarack	20	Pole	7		Blac	k Spruce	Low	Variable	Sapling	has large cull RM & overmature JP above dense spruce-fir-WP pole
	Balsam Fir	5	Pole	6		Та	marack	Low	Variable	Sapling	cover. The bog cover is sparser, with mostly black spruce and tamarack,
	Black Spruce	50	Pole/Sapling	6	92	Ta	g Alder	Low	5 - 10 feet	Tall Shrub	but also a fair amount of WP & RP. The less dense canopy over the bog drags the stand's overall closure down into the 50-75% category.
	Red Pine	6	Pole/Log	8		Ва	Isam Fir	Low	Variable	Sapling	and the state of t
	White Pine	15	Pole/Log	9							
	Jack Pine	2	Log/Pole	10							
	Red Maple	2	Log	14							



Stand	Level 4 Co	over Type	S	ize De	nsity	Acres	Stand Age	BA Range	Managed Site		General Comments		
45	6129 - Mixed Conife	erous Lowl	and Forest Pole	etimber	Mediur	n 7.0	87	1-50	N/A		2014 edge comments: Small stand of spruce and tamarack with balsam		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	fir, scattered NWC, and misc. deciduous. The transition ground supports the densest cover; the saturated interior is sparser, with tag alder and		
	Tamarack	10	Sapling/Pole	4	37	T	ag Alder	High	10 - 20 feet	Tall Shrub			
	Paper Birch	2	Sapling	3		Ва	alsam Fir	Medium	Variable	Sapling	1987 harvest, spec'd to be cut 2"+ DBH (#001-87). Low ground		
	White Pine	2	Log	18		Bla	ck Spruce	Low	Variable	Sapling	conditions prevented complete harvesting. The residual there, albeit sparser, is still the featured canopy, and some of the post-harvest regen		
	Quaking Aspen	2	Pole/Sap/Log	6		Ta	amarack	Low	Variable	Sapling	is recordable in the canopy (2nd age, set to harvest). The north 1/3 of		
	Black Spruce	30	Pole/Sapling	7	87						the stand was not harvested; most of the mature spruce & tamarack is		
	Balsam Fir	10	Pole/Sapling	6							concentrated there.		
	Black Spruce	20	Sapling/Pole	4	37								
	Tamarack	20	Pole/Sap/Log	8									
No	rthern White Cedar	4	Log	13									
46	6220 - A	lder/willow	, 1	Nonsto	cked	1.9	l	Unspecified	No		2014 edge comments: Flooded tag alder swale with patches of cattail and scattered E/Q. The stream to the west likely originates within this swale.		
47	4136 - Aspen	, Mixed Co	onifer Po	oletimb	er Well	20.0	37	51-80	N/A		2014 field comments: Was part of a larger harvest cut 2"+ DBH in 1987		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	(#001-87). Patches to the N & NE were roller chopped and hand-seeded to JP in fall 1989 (C72-222). This part of the harvest saw little of the		
	Black Cherry	1	Pole	5			ck Cherry	Medium	Variable	Tall Shrub	planting, and instead regenerated to quaking aspen mixed conifers, RM &		
	Jack Pine	2	Pole/Sapling	6						1	NPO. Black canker is widespread in some clones. The stand has a lot		
	Red Maple	5	Sapling/Pole	3	37						of lowland edge & small wetland inclusions. There isn't a distinct boundary between this majority upland portion of the 1987 harvest and		
	Red Pine	1	Pole/Log	8							stand 40's majority lowland portion of the same harvest.		
	Quaking Aspen	65	Pole/Sapling	5	37								
	Balsam Fir	15	Pole/Log/Sap	8									
1	Northern Pin Oak	4	Sapling/Pole	4	37								
	Black Spruce	2	Pole/Sapling	6									
	White Pine	5	Pole/Log	8									
48	42210 - Nat	ural Red F	Pine Saw	/timber	Mediur	n 17.7	92	111-140	N/A		Most of this naturally-established RP stand was thinned in 2008 (#057-		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	06), cutting marked RP, merch JP & some of the oak, except for a 2-acre retention island in the middle and the SE peninsula that had lower initial		
	White Pine	10	Pole/Log/XLog	8		Ва	alsam Fir	Trace	Variable	Sapling	stocking. Majority cover in the overstory is small-medium RP saw, along		
	Red Pine	85	Log/XLog/Pole	15	92	W	hite Pine	Low	Variable	Sapling	with WP poles & saw (mostly on the west side), widely-scattered		
	Balsam Fir	1	Pole	7							supercanopy RP-WP and poor quality NPO. The residual distribution varies. The N-end has lower stocking and larger diameters. Stocking		
1	Northern Pin Oak	2	Pole/Log	9							improves and diameters decrease moving SW. There was a wide range		
	Jack Pine	2	Pole	7							of ages present in the 12-15" DBH RP (cored 70-110 years old, ave 92).		
				'							Self-extinguishing RP mortality pocket in the N end has healthy WP regen below. There isn't a distinct boundary with stand 51; this stand's RP cover feathers into the surrounding JP cover.		
49	6224 - 1	Γreed Bog	1	Nonsto	cked	1.0	·	Unspecified	No		2014 edge comments: Leatherleaf bog being colonized by JP, spruce, tamarack, RP & WP.		



Stand	<del>``</del>		Size De	nsity	Acres	Stand Age B	SA Range	Managed \$	Site	General Comments	
50	42121 - Planted Dec	Jack Pine	, Mixed Po	oletimb	er Well	61.9	35	51-80	N/A		2014 field comments: Was part of a larger harvest cut 2"+ DBH in 1988 (#004-87), then roller chopped and hand-seeded to JP in fall 1989 (C72-
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	221). Densely-stocked bands of JP alternate with poorer-stocked swaths. Open-grown form is common in those unseeded swaths and
	Black Spruce	2	Pole/Sapling	6		Blac	k Cherry	Low	5 - 10 feet	Tall Shrub	across the residual WP-RP. Stump-origin NPO from the cut increases
	Jack Pine	65	Sapling/Pole	4	35						moving uphill to the SE; canopy closure is lower there. The aspen, fir &
	White Pine	5	Log/Pole	12							spruce occur mostly along the swamp edge. Although the stand doesn't have the appearance of a plantation due to the hand-seeding technique
	Black Cherry	1	Pole	5	36						used, it meets the "planted" definition by having >50% cover in artificial
	Quaking Aspen	7	Pole/Sapling	5	36						regen. The stand has small wetland inclusions (OFS).
	Red Pine	1	Pole/Log/Sap	8							
1	Northern Pin Oak	17	Pole/Sapling	5	36						
51	42220 - Nat	ural Jack F	Pine Pole	etimber	· Mediu	m 123.7	60	81-110	N/A		Was cut in 1964 (#38-63A), merch JP (except marked seed trees), fir &
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	aspen. The remaining JP was cut by 1972 (#62-70, #37-71), and deer range improvement FTPs (#68-G, #69-G, #62-G) non-commercially cut
	Jack Pine	65	Pole/Log	8	60	Wh	ite Pine	Low	Variable	Sapling	2"+ residual aspen & oak by 1973. Several small contracts removing RP
	Black Cherry	1	Pole	6		Bal	sam Fir	Low	Variable	Sapling	sawtimber were carried out in the early 1970's. The stand has JP pole
	Red Pine	12	XLog/Log/Pole	20	90	Blac	k Cherry	Medium	Variable	Tall Shrub	cover with residual RP (2nd age estimate from stand 48), small clones of
	Quaking Aspen	10	Pole	7	51	Re	d Pine	Trace	Variable	Sapling	aspen, and NEO stump sprouts. The RE occurs scattered infoughout
	Balsam Fir	3	Pole	7							the xlog RP are legacy. While the JP age was set to the first harvest and
1	Northern Pin Oak	3	Pole	7							the aspen age to the last FTP, the series of cuts started new age classes across both species. The stand has a long lowland border, wraps around
	Black Spruce	2	Pole	6							several wetlands, and has low ground inclusions. The cover is dense
	White Pine	4	Log/Pole/XLog	12							along the transition ground edge and sparser interior. Widespread JPBW defoliation & increasing JP mortality has caused the ave canopy closure
 52	6220 - A	.lder/willow		Nonsto	ocked	13.4	U	Inspecified	No		to dip below 75%.  2014 edge comments: Tag alder with Low-Density Tree levels of pole-
											sapling tamarack, spruce, aspen and fir.
53	6224 - `	Treed Bog		Nonsto	cked	5.4	U	Inspecified	No		2014 edge comments: Treed bog: leatherleaf and Labrador tea, with sapling-pole spruce, tamarack, and some JP-RP.
54	6129 - Mixed Conif	erous Lowl	and Forest Pole	etimber	· Mediui	m 68.7	115	51-80	N/A		2014 edge comments: Long, narrow swamp stand. Its irregular boundary wraps around several non-forested wetland stands and is
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	flanked by uplands. Away from the considerable transition ground edge,
	Tamarack	30	Pole/Log	8	94		g Alder	Medium	Variable	Tall Shrub	this stand is very wet. Ephemeral drainages originate within the stand
	Black Spruce	22	Pole	7		Bal	sam Fir	Medium	Variable	Sapling	and flow out the NW and south ends. Canopy dominance shifts back and forth between NWC, tamarack and spruce as you move across the
	Red Maple	2	Log/Pole	14		Blac	k Spruce	Low	Variable	Sapling	stand. The transition ground supports denser, larger-diameter cedar and
	White Pine	2	Log/XLog/Pole			Tai	marack	Low	Variable	Sapling	spruce cover. The most saturated ground has almost pure tamarack.
	Balsam Poplar	2	Pole/Log	8							Cover adjacent to the non-forested wetlands is sparse and continuing to fill in. Small amounts of QA, balsam poplar, RM & paper birch are
No	rthern White Cedar	35	Pole/Log	_	115						scattered along the margins. The stand's 1st & 2nd ages were on the
	Paper Birch	2	Pole/Log	7							majority mature components. A younger class of spruce and tamarack is
	Red Pine	1	XLog/Log	20							present on the upland edge but was not cored. 2024 update: 2.4 acres
	Balsam Fir	2	Pole	7							of stand 43's designated retention were merged into this stand's NE edge (see Site Condition layer).
	Quaking Aspen	2	Pole/Log	8							



Stand	Level 4 Co	over Type	Size Density		Acres Stand Age Ba	A Range	Managed S	Site	General Comments	
55	6225	5 - Bog	١	Nonstocked		7.8 Ur	nspecified	No		2014 edge comments: Leatherleaf bog rimmed with treed bog (spruce, JP, WP, RP, tamarack) that is slowly colonizing the N1/2.
<b>56</b> 6	6129 - Mixed Conife	erous Lowla	and Forest Pole	timbei	Mediun	n 46.9 121	51-80	N/A		2014 field comments: Mixed conifer swamp with canopy closure varying
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	with the degree of flooding. The most saturated ground has sparse spruce and tamarack over tag alder. The drier transition ground has
North	hern White Cedar	45	Pole/Log	8	121	Balsam Fir	Medium	Variable	Sapling	dense cedar, spruce or tamarack cover. Ground falling in between the
	Tamarack	10	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub	two extremes supports a moderately stocked mix of the canopy
	Red Maple	2	Log	14		Black Spruce	Low	Variable	Sapling	dominants. 1st age was on the NWC pole cover. Minority NWC saw cored 50 years older. Spruce cored on the transition ground edge was
	White Pine	2	XLog	28						significantly younger (2nd age) than the interior spruce. Minor associates
	Paper Birch	2	Pole/Log	8						include balsam fir, aspen, RM, WP and paper birch.
	Balsam Fir	5	Pole/Sapling	7						
В	Balsam Poplar	2	Pole	7						
Q	Quaking Aspen	2	Pole/Log	8						
	Black Spruce	30	Pole	7	58					
58	4133 - Aspe	n. Mixed P								
C		,	ine Pole	timbe	Mediun	n 7.8 28	51-80	N/A		2014 field comments: Was cut 2"+ DBH in 1996 (#18-96), except for the
	Canopy Species		Size Class		Mediun	Sub-Canopy Species	51-80 Density	N/A Avg. Height	Size	perimeter and SW peninsula. That peninsula was part of an island-hop
	Canopy Species Red Maple			<b>DB</b> H					<b>Size</b> Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle
	• • •	% Cover	Size Class	DBH		Sub-Canopy Species	Density	Avg. Height		perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The
В	Red Maple	% Cover	Size Class Pole/Log	<b>DB</b> H	Age	Sub-Canopy Species Balsam Fir	<b>Density</b> Low	Avg. Height Variable	Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The transition ground edge has dense cover in residual WP, fir, NPO, aspen,
	Red Maple Jack Pine	<b>% Cover</b> 1 10	Size Class Pole/Log Pole/Sapling	<b>DBH</b> 9 5	28	Sub-Canopy Species Balsam Fir	<b>Density</b> Low	Avg. Height Variable	Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The
	Red Maple Jack Pine Bigtooth Aspen	% Cover 1 10 50	Size Class Pole/Log Pole/Sapling Pole/Sapling Pole/Sap/Log Log/Pole	<b>DBH</b> 9 5 5	28	Sub-Canopy Species Balsam Fir	<b>Density</b> Low	Avg. Height Variable	Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The transition ground edge has dense cover in residual WP, fir, NPO, aspen,
No	Red Maple Jack Pine Bigtooth Aspen orthern Pin Oak	% Cover 1 10 50 5	Size Class Pole/Log Pole/Sapling Pole/Sapling Pole/Sap/Log	9 5 5 5	28 28	Sub-Canopy Species Balsam Fir	<b>Density</b> Low	Avg. Height Variable	Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The transition ground edge has dense cover in residual WP, fir, NPO, aspen,
No	Red Maple Jack Pine Bigtooth Aspen orthern Pin Oak White Pine	% Cover 1 10 50 5 10	Size Class Pole/Log Pole/Sapling Pole/Sapling Pole/Sap/Log Log/Pole	DBH 9 5 5 5 12	28 28 50	Sub-Canopy Species Balsam Fir	<b>Density</b> Low	Avg. Height Variable	Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The transition ground edge has dense cover in residual WP, fir, NPO, aspen,
No Q	Red Maple Jack Pine Sigtooth Aspen orthern Pin Oak White Pine Quaking Aspen	% Cover 1 10 50 5 10 8	Size Class Pole/Log Pole/Sapling Pole/Sapling Pole/Sap/Log Log/Pole Sapling/Pole	DBH 9 5 5 5 12 4	28 28 50	Sub-Canopy Species Balsam Fir	<b>Density</b> Low	Avg. Height Variable	Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The transition ground edge has dense cover in residual WP, fir, NPO, aspen,
No Q	Red Maple Jack Pine Sigtooth Aspen orthern Pin Oak White Pine Quaking Aspen Balsam Fir	% Cover  1 10 50 5 10 8 10	Size Class Pole/Log Pole/Sapling Pole/Sapling Pole/Sap/Log Log/Pole Sapling/Pole Pole/Sapling	DBH 9 5 5 5 12 4 7	28 28 50	Sub-Canopy Species Balsam Fir	<b>Density</b> Low	Avg. Height Variable	Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The transition ground edge has dense cover in residual WP, fir, NPO, aspen,
No Q	Red Maple Jack Pine Bigtooth Aspen orthern Pin Oak White Pine Quaking Aspen Balsam Fir Black Spruce	% Cover  1 10 50 5 10 8 10 5 11	Size Class Pole/Log Pole/Sapling Pole/Sapling Pole/Sap/Log Log/Pole Sapling/Pole Pole/Sapling Pole/Sapling Log/XLog	DBH 9 5 5 5 12 4 7 6 17 coling N	28 28 50 28 Medium	Sub-Canopy Species Balsam Fir	<b>Density</b> Low	Avg. Height Variable	Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The transition ground edge has dense cover in residual WP, fir, NPO, aspen, RM, & RP.  Was final harvested Nov 2008 (#019-06), cutting merch JP & oak (cruise
9 Q E	Red Maple Jack Pine Bigtooth Aspen orthern Pin Oak White Pine Quaking Aspen Balsam Fir Black Spruce Red Pine	% Cover  1 10 50 5 10 8 10 5 11	Size Class Pole/Log Pole/Sapling Pole/Sap/Log Log/Pole Sapling/Pole Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Sapling Sapling Sapling Sapling Sapling Sapling	DBH 9 5 5 5 12 4 7 6 17 coling N	28 28 28 50 28	Sub-Canopy Species  Balsam Fir  Black Spruce	Density Low Low	Avg. Height Variable Variable	Sapling Sapling Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The transition ground edge has dense cover in residual WP, fir, NPO, aspen, RM, & RP.  Was final harvested Nov 2008 (#019-06), cutting merch JP & oak (cruise residual 10 BA RP-WP). Two interior bogs were red-line excluded (OFS pts). Well-established JP regen from the harvest is the featured canopy,
Q E 59	Red Maple Jack Pine Bigtooth Aspen orthern Pin Oak White Pine Quaking Aspen Balsam Fir Black Spruce Red Pine  42220 - Nati	% Cover  1 10 50 5 10 8 10 5 1	Size Class Pole/Log Pole/Sapling Pole/Sap/Log Log/Pole Sapling/Pole Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Sapling Sapling Sapling Sapling Sapling Sapling	DBH 9 5 5 5 12 4 7 6 17 coling N	28 28 50 28 Medium	Sub-Canopy Species  Balsam Fir  Black Spruce  25.4 16	Density Low Low 1-50	Avg. Height Variable Variable N/A	Sapling Sapling Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The transition ground edge has dense cover in residual WP, fir, NPO, aspen, RM, & RP.  Was final harvested Nov 2008 (#019-06), cutting merch JP & oak (cruise residual 10 BA RP-WP). Two interior bogs were red-line excluded (OFS pts). Well-established JP regen from the harvest is the featured canopy, with RP-WP residual scattered above. The JP distribution is variable,
59 C	Red Maple Jack Pine Bigtooth Aspen orthern Pin Oak White Pine Quaking Aspen Balsam Fir Black Spruce Red Pine 42220 - Nate	% Cover  1 10 50 5 10 8 10 5 1	Size Class Pole/Log Pole/Sapling Pole/Sap/Log Log/Pole Sapling/Pole Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Sapling Pole/Sapling Log/XLog  ine Sapling Sapling	DBH 9 5 5 5 12 4 7 6 17 DBH	28 28 50 28 Medium	Sub-Canopy Species  Balsam Fir  Black Spruce  25.4 16  Sub-Canopy Species	Density Low Low 1-50 Density	Avg. Height Variable Variable N/A Avg. Height	Sapling Sapling Sapling	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The transition ground edge has dense cover in residual WP, fir, NPO, aspen, RM, & RP.  Was final harvested Nov 2008 (#019-06), cutting merch JP & oak (cruise residual 10 BA RP-WP). Two interior bogs were red-line excluded (OFS pts). Well-established JP regen from the harvest is the featured canopy,
9 Q E E E E E E E E E E E E E E E E E E	Red Maple Jack Pine Bigtooth Aspen orthern Pin Oak White Pine Quaking Aspen Balsam Fir Black Spruce Red Pine 42220 - Nate Canopy Species Jack Pine	% Cover  1 10 50 5 10 8 10 5 1 1	Size Class Pole/Log Pole/Sapling Pole/Sapling Pole/Sap/Log Log/Pole Sapling/Pole Pole/Sapling Pole/Sapling Log/XLog  Size Class Sapling	DBH 9 5 5 5 12 4 7 6 17 Doling N DBH 2	28 28 50 28 Medium 1 Age 16	Sub-Canopy Species  Balsam Fir  Black Spruce  25.4 16  Sub-Canopy Species  Black Cherry	Density Low Low  1-50 Density Low	Avg. Height Variable Variable  N/A  Avg. Height Variable	Sapling Sapling Size Tall Shrub	perimeter and SW peninsula. That peninsula was part of an island-hop used to access the harvest from the SW and is cut off by tag alder swales. The main harvested island has dense aspen cover in the middle surrounded by a sparser-stocked zone filling in with JP & balsam fir. The transition ground edge has dense cover in residual WP, fir, NPO, aspen, RM, & RP.  Was final harvested Nov 2008 (#019-06), cutting merch JP & oak (cruise residual 10 BA RP-WP). Two interior bogs were red-line excluded (OFS pts). Well-established JP regen from the harvest is the featured canopy, with RP-WP residual scattered above. The JP distribution is variable,



Stand Level 4 Cover Type			e Si	ze Density		Acres Stand Age BA		BA Range	Managed S	Site	General Comments			
60	310 - Herbace	ous Ope	enland 1	Nonst	ocked	15.8	0	Unspecified	4211 - Planted	Red Pine	Naturally-established mixed pine stand with declining NPO was final harvested with retention by early 2021 (#639-17), cutting stems 1"+ DBH			
						Sub-Ca	nopy Specie	s Density	Avg. Height	Size	except green-marked (resid BAs: 4 RP, tr WO). Most of the residual			
						R	ed Pine	Trace	< 5 feet	Seeding	pine was legacy stature. Will be planted to RP (C72-909). FRD trenched			
						R	ed Pine	Trace	>20 feet	Log	April 2022. Site prep sprayed July 2023. Effective control of the aspen & BC regen, low shrub & herbaceous layers. 814 LTPA PRT RP planted in May 2024.			
61	3302 - Low Dens	sity Conif	er Trees 1	Nonsto	ocked	11.6	0	Unspecified	429 - Mixed I Conifer		This west half of stand 43 was shelterwood harvested with retention by early 2021 (#639-17), cutting merch stems except green-marked (12 sq ft			
						Sub-Ca	nopy Specie	s Density	Avg. Height	Size	mostly legacy RP, 6 sq ft WP, traces of WO), and islands within the adjacent swamp. Those islands were merged into stand 36 (see Site			
						Blad	ck Spruce	Trace	< 5 feet	Seeding	Condition layer). Designated retention also includes the legacy pine			
						Ва	Isam Fir	Low	Variable	Sapling	residual. Fair amount of windthrow in the pockets of immature spruce-fir			
						WI	nite Pine	Low	>20 feet	Log	that had been protected during the harvest. Traces of spruce, RP, WP, JP, fir & tamarack have slowly been seeding in. Regen doesn't meet			
						WI	nite Pine	Low	>20 feet	Pole	stocking standards at this time. In-growth is expected due to good			
					R	ed Pine	Low	>20 feet Log		access to the water table and available seed sources.				
62	3302 - Low Density Conifer Trees										Naturally established pine stand on intermediate ground was seed tree harvested by Jan 2021 (#639-17), cutting merch stems except green-			
						Sub-Ca	nopy Specie	s Density	Avg. Height	Size	marked (30 sq ft cruised resid: mostly legacy-stature RP, some WP).			
							nite Pine	Trace	>20 feet	Log	Margin near bog stand 63 was excluded from the harvest. Designated retention includes the legacy pine residual. There has been a lot of			
						Blad	ck Spruce	Trace	Variable	Sapling	blowdown in the pockets of immature fir-spruce-WP that were protected			
						Ва	lsam Fir	Trace	Variable	Sapling	during harvesting. The traces of spruce, WP, RP, JP, fir & tamarack			
						WI	nite Pine	Trace	< 5 feet	Seeding	regen that have been seeding in do not meet minimum stocking standards at this time but continued in-growth is expected.			
						Blad	ck Spruce	Trace	< 5 feet	Seeding	gramma ar ano amb sar commissa in grammi is oxposica.			
						R	ed Pine	Trace	< 5 feet	Seeding				
						R	ed Pine	Low	>20 feet	Log				
						WI	nite Pine	Trace	>20 feet	Pole				
63	6224 - T	reed Boç	1 0	Nonsto	ocked	0.9		Unspecified	No		2014 edge comments: Leatherleaf with some Labrador tea & tag alder, being colonized by WP, black spruce, tamarack to more or less treed bog status.			
64	42290 - Natur	ral Mixed	l Pine Pole	timbe	r Medium	7.6	56	51-80	N/A		Was cut in 1996 (#18-96), merch JP, aspen & dead oak. The harvest's considerable residual is the featured canopy: open-grown WP-RP, pole			
	Canopy Species	% Cove	er Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	JP, declining NPO, and increasing spruce-fir. The JP regen from the cut			
	Jack Pine	25	Pole	7		Ва	lsam Fir	Low	Variable	Sapling	(mainly in the S-center of the stand) will be recordable in the canopy by			
	Quaking Aspen	1	Log/Pole	10		Ja	ick Pine	Medium	>20 feet	Sapling	next YOE and lift the canopy closure above 75%.			
	Black Spruce	8	Pole	7		Blac	ck Spruce	Low	Variable	Sapling				
I	Northern Pin Oak	8	Log	15	110	WI	nite Pine	Low	Variable	Sapling				
	Red Maple	1	Pole	8				'	'		•			
	Red Pine	10	Log/XLog/Pole	16										
	Balsam Fir	7	Pole	7										
	White Pine	40	Log/Pole/XLog	14	56									

Report 7 - Stands



Stand			Si	Size Density		Acres Stand Age BA Range		Managed Site		General Comments	
65	6225 - Bog Nonsto			cked	3.7		Unspecified	No		2014 edge comments: Flooded bog. Full leatherleaf cover, with patches of taller shrub above (salix, spiraea, tag alder, viburnum) and colonizing tamarack & spruce.	
66	42290 - Natu	ural Mixed	Pine Sav	wtimb	er Poor	19.5	57	1-50	N/A		Was cut in early 2008 (72-19-06-01), removing JP, RM & marked NPO
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Specie	es Density	Avg. Height	Size	(cruise residual 20 sq. ft. NPO, 20 sq. ft. conifers, mostly open-grown WP). A small bog inclusion was red-line excluded in the west (OFS pt).
	Jack Pine	4	Pole	7			k Cherry	Medium	Variable	Tall Shrub	Was trenched in 2010 & interplanted to WP in 2011 as a nurse crop for
	Black Cherry	3	Pole	6		Jac	k Pine	Low	10 - 20 feet	Sapling	the oak (C72-598). The residual is still the featured canopy but will likely
1	Northern Pin Oak	20	XLog/Log	20	116	Whi	ite Pine	High	10 - 20 feet	Sapling	flip to the regen next YOE as the overmature oak continues to drop out.  The planted WP is growing well and occupying areas that would
	Quaking Aspen	1	Pole	7		Bals	sam Fir	Trace	5 - 10 feet	Sapling	otherwise have filled in with cherry brush, but it did not function as
	Black Spruce	2	Pole	6						1	intended to support oak regen establishment. Windthrow in the west end.
	Red Pine	10	XLog/Log/Pole	20							
	White Pine	50	Log/Pole/XLog	15	57						
	Balsam Fir	10	Pole/Sap/Log	8							
67	6220 - A	.lder/willow	N	lonsto	cked	6.3		Unspecified	No		2014 edge comments: Lowland shrub swale being progressively colonized by the swamp to the east. Cover is salix, tag alder & spiraea, with increasing tamarack & black spruce.
68	3302 - Low Den	sity Conife	r Trees N	lonsto	cked	21.7	0	Unspecified	429 - Mixed U Conifer	•	Naturally-established RP stand on intermediate ground was seed-tree harvested by Jan 2021 (#639-17), cutting merch stems except green-
						Sub-Can	opy Specie	es Density	Avg. Height	Size	marked (15 sq ft RP, 2 sq ft WP), cedar, and retention around the bog in the NE, the ephemeral drainage at the bottleneck, and by the adjacent
						Red	d Pine	Low	>20 feet	Log	bog stand 74. The legacy pine residual is also designated retention. A
						Whi	ite Pine	Trace	Variable	Sapling	lot of windthrow has occurred in the pockets of immature spruce-fir-WP
						Red	d Pine	Trace	>20 feet	Pole	that were protected during the harvest. Less than recordable amounts of RP, WP, JP, spruce & fir regen has established despite the good
						Black	Spruce	Low	Variable	Sapling	scarification, access to the water table, & seed source.
					L	Bals	sam Fir	Low	Variable	Sapling	
69	6220 - A	.lder/willow	N	lonsto	cked	1.8		Unspecified	No		2014 edge comments: Flooded lowland shrub wetland with tag alder, salix, leatherleaf and bog birch. Drains to the NW across stand 68.
70	42290 - Natu	ural Mixed	Pine Sav	wtimb	er Poor	17.2	61	1-50	N/A		Most of the stand was cut in early 2008 (72-19-06-01), merch stems
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Specie	es Density	Avg. Height	Size	except RP, WP, spruce, fir, birch & marked NPO. The stand's narrow far ends were red-line excluded (half-acre swamp inclusion on the W end &
	Quaking Aspen	2	Pole/Sap/Log	7		Red	d Pine	Trace	Variable	Sapling	half-acre sparse driveway area on the east end. The narrow poly on the
1	Northern Pin Oak	5	Log/Pole/XLog	15	121	Black	k Cherry	Medium	Variable	Tall Shrub	N side of the road was also excluded from the harvest; its east end picks
	Balsam Fir	10	Pole/Sapling	7		Whi	ite Pine	Medium	Variable	Sapling	up stand 77's retention (see Site Condition layer). Residual from the harvest is RP-WP of multiple size classes, declining NPO, and pole-sap
	Red Pine	45	Log/Pole/XLog	13	61	Jac	k Pine	Medium	10 - 20 feet	Sapling	balsam fir, JP & black spruce. Traces of QA, RM, PB & tamarack occur
	Black Spruce	3	Pole/Sapling	7		Bals	sam Fir	Low	Variable	Sapling	mostly along the swamp margins. Regen is a variable mix of pine, fir,
	White Pine	30	Log/Pole/XLog	12							spruce, aspen & traces of oak. The JP regen is mostly in the W1/2 & the WP regen in the E1/2. Canopy is sparser in the west due to windthrow,
	Jack Pine	5	Pole/Log/Sap	7							and higher in the uncut portion north of the county road.
71	71 122 - Road/Parking Lot Nonstocked					7.4		Unspecified	No		County road corridor.

Report 7 - Stands



											DNR DNR		
Stand	Level 4 Co	over Type	s	ze De	nsity	Acres	Stand Age I	BA Range	Managed S	Site	General Comments		
72	6129 - Mixed Conife	erous Lowl	and Forest Po	letimb	er Poor	11.6	67	1-50	N/A		2014 comments: Aside from a pine island inclusion, this stand is on		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cai	nopy Species	Density	Avg. Height	Size	saturated to flooded ground with a diverse lowland shrub understory.  From west to east, the cover starts with a dense patch of spindly spruce		
	Black Spruce	35	Pole/Sapling	6	67	Sand	bar Willow	Low	Variable	Tall Shrub			
	Tamarack	25	Pole/Sapling	6		Та	ıg Alder	Medium	5 - 10 feet	Tall Shrub	swamp with very sparse cover, then picks up more cedar and tamarack		
No	rthern White Cedar	30	Pole/Log	9	107	Mich	igan Holly	Low	Variable	Tall Shrub	at the east end. Traces of aspen, RM & paper birch rim the uplands. An ephemeral drain empties into the stand from the NE.		
	Jack Pine	5	Pole/Log/Sap	7		Вс	g Birch	Medium	5 - 10 feet	Tall Shrub	oprioritoral drain omplies into the stand from the NE.		
	Red Pine	5	Log/XLog	17							-		
73	42220 - Nati	ural Jack F	Pine Pole	timber	Mediun	n 28.1	54	51-80	N/A		Was cut in 1970 (#53-70, #40-70), merch JP east of the two-track and JP		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	saw west of the two-track. Most of the residual RP was then cut in 1974 (#45-73). Stand was sprayed for JP budworm control (W71-194, 1982).		
	Black Spruce	1	Pole/Sap/Log	7		Re	ed Pine	Trace	Variable	Sapling	The stand regenerated well to JP. The densest stocking and best growth		
	White Pine	2	Log/Pole/XLog	11		Blac	ck Cherry	Trace	Variable	Tall Shrub	is on the west side by the lowlands. Moving uphill to the N & E, the		
	Jack Pine	80	Pole	7	54						canopy closure drifts below 75%. Stump-origin oak from the harvest is mainly on the hill in the NE. Residual from the harvest includes log-xlog		
	Red Pine	8	Log/XLog/Pole	14							RP (some of it legacy), declining NPO saw, and small saw JP. The WP,		
	Balsam Fir	1	Pole	6							spruce & fir occurs mostly on the west edge transition ground. Some thin		
	Northern Pin Oak	8	Pole/Sap/Log	7							crowns from JPBW defoliation last year. Scattered JP mortality.		
74	6225	i - Bog	1	Nonsto	cked	1.2	ι	Jnspecified	No		2014 edge comments: Leatherleaf bog with some swamp birch, and colonizing JP, RP spruce & tamarack.		
75	6220 - A	lder/willow	. 1	Nonsto	cked	2.8	l	Jnspecified	No		2014 edge comments: Tag alder with some salix, being colonized by tamarack, spruce, WP & RM. There may be a bog patch in the middle.		
76	6224 - 1	reed Bog	1	Nonsto	cked	1.5	ι	Jnspecified	No		2014 edge comments: Leatherleaf bog colonized to treed bog status with black spruce, tamarack, WP & JP.		
77	310 - Herbac	eous Oper	nland I	Nonsto	cked	8.2		Jnspecified	4211 - Planted	Red Pine	Naturally-established mixed pine stand with declining NPO was final harvested with boundary-excluded retention by early 2021 (#639-17),		
						Sub-Cai	nopy Species		Avg. Height	Size	cutting stems 1"+ DBH except green-marked (resid BA 6 RP, tr NPO).		
						Re	ed Pine	Trace	>20 feet	Log	Most of the residual RP was legacy stature. Will be planted to RP (C72-		
											909). FRD trenched April 2022. TMS recon in 2023 did not find competition warranting site prep herbicide. Will cancel that step and c straight to planting.  Was scheduled to be planted in 2024 but the nursery ran short on tre it will now be planted in 2025. The harvest's designated retention on t north side of Conners Flat Rd was merged with stand 70 (see Site Condition layer).		



Stand	Level 4 C	over Type	er Type Si			Acres	Acres Stand Age BA Range			Site	General Comments	
78	429 - Mixed Upland Conifers S			Sawtimber Well		1.7	53	81-110	N/A		2014 edge call: Small finger of dry ground that extends from the adjacent	
C	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Cai	nopy Species	s Density	Avg. Height	Size	private property into the swamp. Cover includes log-pole WP and dense patches of pole balsam fir, with cull RM saw & black spruce rimming the	
E	Black Spruce		Pole	7		Ba	Isam Fir	Medium		Sapling	swamp, terrible quality NPO, and clumps of large RP.	
	White Pine	35	Log/Pole	12	53	Blac	k Spruce	Low	Variable	Sapling		
	Balsam Fir	30	Pole/Sapling	6							•	
No	rthern Pin Oak	5	Log/Pole	12								
	Red Pine	15	Log/XLog	17	100							
	Red Maple	10	Log	14								
<b>79</b> 6121 - Tamarack			P	oletimb	er Poor	15.3	120	1-50	N/A		2014 field comments: The stand's core saturated ground has sparse	
C	anopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	tamarack over marsh/tag alder. Denser NWC cover fingers in on the N & E edges. A string of small PArVCo islands across the north end have	
	Red Maple	2	Log	14		Blac	k Spruce	Low	Variable	Sapling	fairly dense cover in WP, fir, RM & spruce. The stand's SW has majority	
North	nern White Cedar	10	Pole/Log	9		Ta	marack	Low	Variable	Sapling	cover in black spruce over sphagnum/leatherleaf. 2024 update: Two	
E	Black Spruce	25	Pole/Sapling	6	92	Та	ıg Alder	High	Variable	Tall Shrub	uncut islands of stand 81 were merged in on the west edge.	
	Balsam Fir	3	Pole	6								
	White Pine	2	Log/Pole	12								
	Tamarack	55	Pole/Sap/Log	8	120							
	Jack Pine	3	Log/Pole	12								
80	3302 - Low Density Conifer Trees Nonstocked					1.8	l	Jnspecified	No		Within an area cut in 1960 (#85-60A), merch aspen & marked JP. Was then cut in 1976 (#12-76), again removing merch JP. Appears to have been cut in conjunction with a larger adjacent private harvest. This part of the harvest was split out as a non-forested stand. Cover is a mix of grass, weeds and low shrubs, with patches of JP, WP, RP & NPO.	
81	310 - Herbac	eous Open	lland	Nonsto	ocked	8.7	0 ι	Jnspecified	429 - Mixed l Conifer	•	Mixed conifer stand was final harvested in 2024 (#043-17), cutting trees 2"+ DBH except green-marked (10 BA WP-RP), a retention island on the	
						Sub-Ca	nopy Species	Density	Avg. Height	Size	east end excluding a pocket of xlog pine, and a pair of islands in the NW cut off by low ground (merged into stand 79). Cover was JP-WP-NPO	
						Re	ed Pine	Trace	>20 feet	Log	with spruce-fir and minor RP-A components. Most of the stand had been	
						White Pine		Low	>20 feet	Log	within an area cut in 1960 (#85-60A), merch aspen & marked JP. The west end then had merch JP cut in 1976 (#12-76).	
82	2 6224 - Treed Bog				Nonstocked		l	Jnspecified	No		2014 edge comments: Leatherleaf bog with colonizing JP, spruce, WP & RP.	



Stand	l Level 4 C	Level 4 Cover Type Size Density		Acres	Stand Age B	A Range	Managed S	ite	General Comments					
83	6121 -	Tamarack	ck Sapling Medium		6.7 47 Unspecified		nspecified	N/A		July 2014 inventory: Tamarack, with black spruce and occasional WP &				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	RM, on saturated ground. The stand's pole component (2nd age, 93) concentrated on the perimeter. The interior has majority sapling cover			
	Tamarack	50	Sapling	3	47	Ta	ag Alder	Medium	< 5 feet	Tall Shrub	(1st age, 37). There is likely a wide range of ages in the sapling class,			
	Black Spruce	10	Pole	6							given the progressive nature of the colonization, but only one sapling was			
	Red Maple	2	Pole/Sapling	7							cored. The shrub layer has short tag alder, with swamp birch, leatherlead and Labrador tea, over sphagnum hummocks. Amount of standing wate			
	Black Spruce	20	Sapling	3							influenced by beaver activity on drainage to SE on private.			
	Tamarack	15	Pole	7	103									
	White Pine	3	Pole/Log	7										
84	6220 - A	.lder/willow	1	Nonsto	ocked	3.1	U	nspecified	No		2014 edge comments: Tag alder with sparse black spruce, tamarack, aspen & paper birch.			
85	42220 - Nat	ural Jack F	Pine Pole	timbe	Mediun	n 16.7	51	51-80	N/A		Was part of a larger harvest in 1973 (#14-73A, majority in adjacent comp			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	280), cutting merch stems except RP-WP. Regen from the harvest is the featured canopy, with residual RP, WP & traces of NPO scattered			
	Northern Pin Oak	5	Pole/Log	8		W	hite Pine	Trace	Variable	Sapling	above. Regen was predominantly JP (now 5-7" DBH), with stump-origin			
	Balsam Fir	5	Pole	6		R	ed Pine	Trace	Variable	Sapling	NPO (mainly in the SE), two sub-acre aspen clones in the S-end, and fir			
	White Pine	5	Log/Pole	12		Ва	alsam Fir	Trace	Variable	Sapling	on the S-edge transition ground. Dense cover alternates with sparse openings; canopy closure drifts off either side of 75%. Terrain is rolling in			
	Bigtooth Aspen	2	Pole/Log	8	51	Bla	ck Cherry	Trace	Variable	Tall Shrub	the SW.			
	Quaking Aspen	3	Pole/Log	8	51									
	Jack Pine	65	Pole	6	51									
	Red Pine	15	Log/XLog/Pole	16	63									
86	122 - Road	d/Parking L	ot l	Nonsto	ocked	1.7	0 U	nspecified	No		Cleared county road corridor.			
87	42210 - Na	tural Red P	ine Saw	ne Sawtimber Medium			n 6.0 58 81-110		N/A		Was part of a larger harvest in 1973 (#14-73A, majority in adjacent comp 280), cutting merch stems except RP-WP. This part of the harvest area			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	had more RP & JP residual than regen. The main canopy layer is made			
	Quaking Aspen	1	Pole	7		Ba	alsam Fir	Trace	Variable	Sapling	up of small saw-large pole RP with JP. Legacy RP are scattered above.			
	Red Pine	65	Log/Pole/XLog	13	58	R	ed Pine	Low	Variable	Sapling	JP and NPO regen from the harvest is intermediate in the canopy. The			
	White Pine	5	Log/Pole/XLog	12	12 White Pine Trace Va		Variable	Sapling	mature residual JP & NPO have been dropping out. Spruce, fir, WP & traces of A-RM rim the swamp. Canopy closure drifts off either side of					
	Northern Pin Oak	5	Log/Pole	12							75%.			
	Black Spruce	1	Pole	6										
	Balsam Fir	3	Pole	6										
	Jack Pine	20	Pole/Log	8										
88	6220 - A	.lder/willow	1	Nonsto	ocked	1.9	U	nspecified	No		2014 edge comments: Tag alder over marsh, with flood-killed snags.			



Stand	d Level 4 Co	Level 4 Cover Type			nsity	Acres	cres Stand Age BA Range		Managed Site		General Comments			
89	42210 - Nat	42210 - Natural Red Pine		Sawtimber M		30.3	76	81-110	N/A		Merch aspen & marked JP were cut in 1960 (#85-60A). In 1997 (#027-			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	96) 2"+ DBH A-JP-NPO were cut, except for on a couple acres each along the stream corridor & in the thumb. The species-removal harvests			
	White Pine	30 Pole/Lo		9	55	Wh	White Pine		Variable	Sapling	released RP & WP that had established across 5+ decades.			
	Balsam Fir	2	Pole	7		Northern Pin Oak		Trace	>20 feet	Sapling	A significantly older supercanopy pine component had to be merged into			
	Red Pine	68	Log/Pole/XLog	14	76	R	ed Pine	Low	Variable	Sapling	the canopy records with the majority younger pine due to a MiFI limitation. Canopy closure is variable; dense cover alternates with			
						Ва	lsam Fir	Low	Variable	Sapling	numerous canopy gaps. The densest RP in the SW 4 acres were			
											shelterwood harvested in 2024 (#043-17) down to 37 BA RP; the canopy closure is 25-50% there but it has been kept as part of the parent stand. Species distribution is also variable; WP increases in the NW and SE. WP, fir & RP are recruiting in the understory, heaviest along the lowlands, & there are traces of NPO stump sprouts from the 1997 harvest. The stand has perimeter transition ground, and small bog inclusions in the NW.			
90		wland Ceda			er Well	20.9	113	111-140	N/A		2014 field comments: The stand's core saturated ground has dense NWC pole cover with black spruce & tamarack mixed in. Moving out			
	Canopy Species	% Cover		_	Age		nopy Species	Density	Avg. Height	Size	toward the stand's perimeter, the proportion in NWC decreases while that			
	Paper Birch	3	Pole/Log	7			Isam Fir	High	Variable	Sapling	species' DBH increases. The stand's drier transition ground edge and small PArVCo islands have dense black spruce pole cover with some RP			
	White Pine	3	Log/Pole	12		Tag Alder		Low	5 - 10 feet	Tall Shrub	& WP saw, paper birch & cull RM. Balsam fir common in the understory			
	Tamarack	10	Pole	7		Blac	ck Spruce	Low	Variable	Sapling				
No	orthern White Cedar	55	Pole/Log	8	113									
	Red Maple	5	Log	14										
	Black Spruce	24	Pole/Sapling	7										
91	6220 - A	.lder/willow	١	Nonsto	cked	1.5	U	nspecified	No		2014 edge comments: Tag alder & salix over marsh grass. Scattered WP. East end above the old beaver dam is mostly marsh, with some ponding.			
92	6117 - Lowland Con	Deciduous iferous	, Mixed Saw	timber	Medium	4.1	130	51-80	N/A		2014 field comments: Mixed lowland stand occupying a shallow valley. A permanent stream serpentines across the width of the floodplain.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Mucky hillside seeps feed into the stream. Variable cover in RM, paper birch & quaking aspen, with xlog WP hugging the stream and fir-spruce			
No	orthern White Cedar	2	Log/Pole	12		Ва	lsam Fir	High	Variable	Sapling	on the sideslopes. Occasional NWC & RP. Cull and break-up common			
	Balsam Fir	10	0 Pole 7 Black Spruce Low Variable		Variable	Sapling	in the overmature components. RM age had to be extrapolated due to							
	White Pine	5	Pole/Log	8		Tag Alder		Low	Variable	Tall Shrub	pervasive interior rot. WP age extrapolated due to corer bit limitations.			
	Black Spruce	10	Pole/Log	8										
	Red Maple	35	Log/Pole/XLog	12	130									
	White Pine	10	XLog	28	150									
	Quaking Aspen	8	Log/Pole	12										
	Paper Birch	15	Log	12										
	Red Pine	3	XLog/Log	20										



Stand	Level 4 C	over Type	S	Size Density			Acres Stand Age BA Range			Site	General Comments			
93	42290 - Natu	ıral Mixed F	Pine Sa	Sawtimber Well		2.4	172	141-170	N/A		2014 edge comments: Island of dry ground in the cedar swamp,			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	dominated by supercanopy-stature RP & WP. Occasional NPO and overmature quaking aspen. RM & paper birch are intermediate-			
	Red Maple	5	Log/Pole	12		Ва	Balsam Fir		Variable	Sapling	suppressed in the canopy. The understory has locally full cover in			
	White Pine	40	XLog/Log	Log 22 144		Black Spruce		Low	Variable	Sapling	balsam fir & WP. The average WP diam is >24 inches but MiFI doesn't			
	Red Pine	50	XLog/Log	20	172	Wh	nite Pine	Medium	Variable	Sapling	allow splitting the size class to XLog-Log above 22 inches.			
	Paper Birch	3	Pole	7							-			
	Black Spruce	2	Pole	7										
94	6122 - BI	ack Spruce	e Po	letimb	er Poor	5.2	90	1-50	N/A		2014 field comments: West end of the stand is not much above treed			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	bog status, with conifer cover establishing through deep leatherleaf.  Moving east, the leatherleaf gives way to more sphagnum moss			
	Black Spruce	80	Pole/Sapling	6	90	Ta	marack	Low	Variable	Sapling	groundcover with Labrador tea and blueberry. The majority spruce cover			
	Tamarack	15	Pole/Sapling	6		Blac	ck Spruce	Low	Variable	Sapling	there is spindly and small-crowned, with similar-stature tamarack and			
	White Pine	3	Pole/Sapling	6				,			occasional WP, RP & JP.			
	Red Pine	2	Pole/Sap/Log	5										
95	42290 - Natu	ıral Mixed F	Pine Sa	wtimb	er Poor	31.4	54	51-80	N/A		Within a larger harvest in 1960 (#84-60A), cutting merch aspen & mark			
	Canopy Species	% Cover	Size Class	e Class DBH Age		Sub-Ca	nopy Species	Density	Avg. Height	Size	JP. Was cut again in 1988 (#002-87), 2"+ DBH except only the marked RP & WP. NW multi-poly was not in the 1988 harvest area but had an			
Ν	orthern Pin Oak	ak 1 Pole	Pole		36	Ва	lsam Fir	Low	Variable	Sapling	acre cut in 1997 (#027-96), 2"+ DBH aspen, JP & oak. Wide range of			
(	Quaking Aspen	ng Aspen 4 Pole		6	36	WI	nite Pine	ne Medium	Variable	e Sapling	ages in the pine overstory. Roughly a third of the current canopy was sapling-sized at time of the '88 harvest & is now large pole-small saw			
	White Pine	50	Pole/Log/XLog	8	54	R	ed Pine	Low	Variable	Sapling	saping-sized at time of the 66 harvest & is now large pole-small saw if size (most of it WP (2nd age 54), some RP). Roughly a third of the sta			
	Balsam Fir	2	Pole 6			Black Cherry		Trace	Variable	Tall Shrub	is large saw 90-110 years old (mostly RP, 1st age 102, some WP). In			
	Red Pine	43	XLog/Log/Pole	g/Log/Pole 20 102							between is medium RP saw, generally in its 80's. Except where stockir held up, there is a tendency toward persistent heavy limbs in the large			
											RP. Small patches of aspen are scattered across the stand; log-pole clones dating to the 1960 harvest & sapling-pole to the 1988 harvest. Filling in below is a mix of WP, RP & fir. In 2024, 18 acres of the denser cover where shelterwood harvested down to 42 BA RP-WP. Pre-harvest lower BA areas on narrow peninsulas to the SE & SW, & the stream RMZ poly to the NW were excluded from the harvest. Those excluded polys have higher BAs than the post-harvest portion but they have not been split out as separate stands, due to their small size.			
96	6224 - Treed Bog Nonstocked		3.4 Unspecified		nspecified	No		2014 edge comments: Thick leatherleaf cover colonized to treed bog status by tamarack, black spruce & WP.						
97	97 6224 - Treed Bog Nonstocked				3.6	U	nspecified	No		2014 edge comments: Atypical treed bog. There is full cover in leatherleaf and Labrador tea, but also tag alder, salix & spiraea above i in addition to the colonizing tamarack, black spruce & WP.				



tand Level	4 Cover Type	s	Size Density Acres Stand Age BA Range Managed Site						Site	General Comments			
99 4133 -	4133 - Aspen, Mixed Pine			Poletimber Well		36	81-110	N/A		2014 field comments: Was part of a larger area cut in 1960 (#84-60A),			
Canopy Speci	es % Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	merch aspen & marked JP. Was cut again by 1988 (#002-87), 2"+ DBl and marked RP-WP. This part of the harvest had only scattered RP			
Balsam Fir	10	Pole/Sapling	5		Bal	sam Fir	Medium	Variable	Sapling	residual. The stand's core is dense aspen pole cover; the perimeter is			
Black Cherry	1	Pole	6		Wh	ite Pine	Medium	Variable	Sapling	where the WP, fir & RP are concentrated. The spruce occupies the			
White Pine	20	Pole/Log			Ta	Tag Alder		10 - 20 feet	Tall Shrub	transition ground edge. 2024 update: An uncut island of stand 104 wa merged into the SE of this stand; that retention encompasses a			
Northern Pin Oa	k 1	Pole/Sapling			Blac	k Cherry	Trace	Variable	Sapling	seasonally flooded swale with sparse overmature balsam poplar and			
Quaking Aspen	55	Pole/Sapling	5	36						quaking aspen (see Site Condition layer).			
Balsam Poplar	5	Pole/Log	9	64									
Red Pine	5	XLog/Log/Pole	22										
Black Spruce	3	Pole	6										
00 42290 -	Natural Mixed	Pine Saw	/timber	Mediur	n 8.3	45	51-80	N/A		Small variable stand was within a larger area cut in 1960 (#84-60A),			
Canopy Speci	es % Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	merch aspen & marked JP. Was cut again by 1988 (#002-87), 2"+ DB and only the marked RP & WP. WP-RP residual and JP-A regen from			
Black Spruce	2	Pole	6		Chok	ce Cherry	Low	5 - 10 feet	Tall Shrub				
Quaking Aspen	8	Pole/Sapling	6	36	Wh	ite Pine	Trace	Variable	Sapling	ground edge. Most of the WP is young but saw-sized from being very			
Red Pine	20	Log/XLog/Pole	16	100						open-grown. Species distribution and canopy closure is variable, with upland brush/grassy opening inclusions common. In 2024, an acre of			
Balsam Fir	5	Pole	7							dense RP sawtimber was thinned to 80-110 BA and an acre of mature			
Northern Pin Oa	k 1	Pole/Sapling	7	36						aspen from the 1960 harvest was clearcut (#047-17); those treated are			
Jack Pine	30	Pole/Sapling	6	36						are distinct inclusions.			
White Pine	34	Log/Pole/XLog	15	45									
<b>01</b> 429 - Mix	ked Upland Cor	nifers Saw	Sawtimber Mediu		n 4.0	108	51-80	N/A		2014 field comments: Small upland stand along the compartment/priva			
Canopy Speci	es % Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	property boundary and hemmed in by the swamp. JP with significant of and aspen components, and lesser amounts of WP, RP, spruce & fir.			
Jack Pine	45	Log	13	108		ck Pine	Low	Variable	Pole	The top three species are largely overmature, with cull, decadence &			
Quaking Aspen	20	Log	14		Blac	k Spruce	Low	Variable	Sapling	snags common and contributing to the slash load. Low overall			
Northern Pin Oa	k 20	Log	14		Bal	sam Fir	Low	Variable	Sapling	understory cover in a mix of pine, spruce & fir.			
White Pine	5	Pole/Log	8		Wh	ite Pine	Low	Variable	Sapling				
Red Pine	5	Log/Pole	15		Re	ed Pine	Low	Variable	Sapling				
Black Spruce	2	Pole	6										
Balsam Fir	3	Pole	6										
<b>02</b> 622	0 - Alder/willow	,	Nonsto	cked	1.1	U	nspecified	No		2014 edge comments: Tag alder and salix, with some cattail and perimeter WP, QA, black spruce & tamarack.			
03 6122	22 - Black Spruce		oletimb	er Well	1.8	77	51-80	N/A		2014 edge comments: Small pocket of low ground with dense black			
Canopy Speci	es % Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	spruce pole cover on the perimeter, cull RM, and occasional paper birch NWC & balsam fir. The interior has sparser cover.			
Red Maple	13	Log/Pole	12		Blac	k Spruce	Low	Variable	Sapling				
Paper Birch	3	Pole	8		Ta	g Alder	Low	5 - 10 feet	Tall Shrub				
Northern White Ce	dar 2	Pole	8										
Black Spruce	80	Pole	8	77									
Balsam Fir	2	Pole	6										



Stand	Level 4 Cover Type Size Do				nsity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments		
104	310 - Herbad	ceous Oper	nland	Nonstocked		3.3	0	Unspecified	413 - As	pen	Overmature aspen stand that had regenerated following a 1960 harvest		
						Sub-Ca	nopy Specie	s Density	Avg. Height	Size	(#84-60A) was final harvested with retention in late 2023 (#047-17), cutting stems 2"+ DBH except for a few green-marked xlog WP & RP.		
						R	ed Pine	Trace	>20 feet	Log	The stand's west edge on a seasonally flooded swale was excluded as		
						WI	hite Pine	Low	>20 feet	Log	retention and later merged with stand 99 (see Site Condition layer).		
						Ва	alsam Fir	Low	Variable	Sapling			
105	6220 <i>- F</i>	\lder/willow	,	Nonstocked		1.0		Unspecified	No		2014 edge comments: Tall tag alder over marsh, with a sub-acre patch of lowland spruce on the east side.		
106	6122 - B	lack Spruce	Э ;	Sapling	Poor	30.1	67	Unspecified	N/A		2014 field comments: Black spruce and tamarack slowly filling in over		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	dense leatherleaf groundcover. Tag alder and bog birch rim the perimeter. Occasional WP, RP & JP. Progressive colonization has		
	Jack Pine	2	Sapling	2		Во	og Birch	Low	< 5 feet	Tall Shrub			
	Black Spruce	55	Sapling/Pole	3	67	Blac	Black Spruce		< 5 feet	Seeding	more trees to document that condition. Barely averages above treed bog		
	Tamarack	35	Sapling/Pole	2		Ta	amarack	Low	< 5 feet	Seeding	status. 2024 update: the stand margin by the uplands has dense pole cover that gives way to sparse sapling-pole cover moving inward.		
	Red Pine	3	Pole/Sapling	5		Ta	Tag Alder		Variable	Tall Shrub			
	White Pine	5	Pole/Sapling	5							-		
107	6122 - B	lack Spruce	e Pole	etimber	· Mediur	m 7.5	110	51-80	N/A		2014 field comments: Spindly black spruce with tamarack growing on		
	Canopy Species	% Cover Size Class		DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	spongy sphagnum & sedge-covered ground. The pole-sapling overstory barely averages 6" DBH. 2024 update:		
	Black Spruce	90	Pole/Sapling	6	110	Blac	ck Spruce	Low	Variable	Sapling	The 2nd age had also been on the spruce but a MiFI limitation prevents		
	Tamarack	10	Pole/Sapling	6	78	Та	amarack	Low	Variable	Sapling	listing that record separately, so that age was applied to the tamarack in order to represent the stand's 2-aged condition.		
											order to represent the stand's z-aged condition.		
108	42290 - Nat			etimber	Mediur		36	51-80	N/A		2014 field comments: Was final harvested by 1988 (#002-87), cutting 2"+ DBH except for a narrow band of lowland spruce along S-center		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	edge. Regen from the harvest, along with then-sapling material released		
	Balsam Fir	10	Pole	6		Blad	ck Cherry	Low	Variable	Tall Shrub	"   "   "   "   "   "   "   "   "   "		
	Red Pine	5	Log/Pole/XLog	12		Black Spruce		Trace	Variable	Sapling	sapling JP, aspen, balsam fir & stump-origin oak, and stocky, open- grown log-pole WP & RP. Distribution is patchy; dense cover alternates		
	Quaking Aspen	uaking Aspen 15 Pole/Sapling 6 36		36	WI	hite Pine	Trace	Variable	Sapling	with upland brush/grassy openings. The harvest was accessed from the			
	White Pine 20 Log/Pole		15	47	Balsam Fir		Trace	Variable	Sapling	SW on a temporary road that crossed a narrow intermittent stream			
	Black Spruce	3	Pole/Sapling	6							flowing out of stand 106.		
	Jack Pine	40	Pole/Sapling	5	36								
ı	Northern Pin Oak	5	Pole/Sapling	6	36								
	Black Cherry	2	Pole	5									



Stand	Level 4 Cover Type			Size De	nsity	Acres Stand Age BA Range Managed Site			Managed S	Site	General Comments	
109	4311 - Pine, Aspen Mix			Poletimber Well		12.6	12.6 36 81-110 N/A			Was final harvested by 1988 (#002-87), cutting 2"+ DBH. Regen from		
(	Canopy Species	% Cove	Size Class	DBH Age		Sub-Ca	nopy Species	Density	Avg. Height	Size	the harvest, along with then-sapling material released by the harvest, make up the featured canopy. The canopy has dense aspen clones	
C	Quaking Aspen	45	Pole	6	36	Ва	lsam Fir	Low	Variable	Sapling	separated by somewhat open-grown WP cover and patches of upland	
	Balsam Fir		Pole/Sapling	g 6		Black Cherry		Low	Variable	Tall Shrub	shrub. Fir is filling in below the aspen. There is spruce on the transition	
	White Pine		Log/Pole	15	47	White Pine		Low	Variable	Sapling	ground bordering stand 106 and an inclusion of lowland spruce in the far NW end.	
	Black Cherry	1	Pole	5				'		,	TITLE CITY.	
	Black Spruce	3	Pole	6								
No	orthern Pin Oak	1	Pole	6	36							
	Jack Pine		Pole	6								
	Red Pine	4	Pole/Log	9								