

# **Compartment Review Presentation**

**Crystal Falls Forest Management Unit** 

Compartment 12079 Entry Year 2027 Acreage: 2,206

**County: Dickinson** 

Management Area: Cassidy Creek

Stand Examiner: Rich Goupell

**Legal Description:** 

T41N R29W Sections 22-24

### **Identified Planning Goals:**

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Protect riparian areas during management activity implementing the Best Management Practices guidelines.

## Soil and topography:

Soils are a mixture of Cathro mucks, fine sandy loams, and rock outcroppings. Terrain is also variable from lowlands to small rolling hills to steep rock outcroppings.

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

Most of this compartment is contiguous State of Michigan ownership with a few private landowners within the boundary. Hunting, trapping, camping, fishing, and cross country skiing are the main recreational use patterns.

#### **Unique Natural Features:**

Mitchell Creek and West Branch of Sturgeon River. Granite Bedrock Glade ERA.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural features known.

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

Number of high quality natural communities in or near compartment. Granite Bedrock Glade ERA just s. of section 22. Portions of granite bedrock glade occur in southwestern portion of compartment. Granite cliff just s of section 22, dry-mesic northern forest to s of section 22; poor fen to s, submergent marsh just s of section 22; northern wet meadow to s in section 34; granite bedrock glade to sw and n; northern hardwoods swamp; granite cliff - section 10.

#### Watershed and Fisheries Considerations:

Mitchell Creek runs through this compartment and is a Type I Trout Stream. 300 foot buffers should be implemented. The West Branch of the Sturgeon River also runs through this compartment and should have 100 foot buffer. Streams, regardless of their size or frequency of flow, are connected to downstream waters and strongly influence their function. Additionally, wetlands and open waters in riparian areas and floodplains are physically, chemically, and biologically integrated with rivers via functions that improve downstream water quality. These systems act as effective buffers to protect downstream waters from pollution and are essential components of river food webs. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

#### Wildlife Habitat Considerations:

This compartment fall within the historic Sturgeon River Deer Wintering Complex. White-tailed deer was selected as a featured species to manage for critical habitat conditions which include important conifers, primarily hemlock, cedar and white pine, for winter cover, travel corridors and upland dispersal for forage. Forest openings will also be managed to provide important spring and summer forage. Black bear manage for refuge trees, forest openings and mast producing trees and shrubs. Maximizing age class diversity, decreasing stand size and maintaining the conifer component in aspen stands will provide grouse and woodcock. Maintaining mature forest conditions will provide critical habitat for northern goshawk and Blackburnian warbler. Wood duck critical habitat call for mature forest conditions to provide for nesting cavities and open water foraging in riparian corridors, lowland hardwoods, lowland conifers, vernal ponds and drainages.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor amounts of medium-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation and Archean granite/gneiss underlie the glacial drift. There is not a current economic use for these rocks, but the granite/gneiss may have building/dimension stone potential. The Groveland Mine is located approximately three miles to the northwest. This compartment was previously leased for metallic mineral exploration and potential may still exist. Gravel pits are not

located in the area, but there may be some potential. A former (inactive) State pit is located in Section 20. There is no economic oil and gas production in the UP.

#### **Vehicle Access:**

Access is excellent. Many poor forest roads are present within this compartment. The Merriman East Rd., Calumet Mine Rd., and Lyons Lake road are all gravel county roads.

#### **Survey Needs:**

Some.

## **Recreational Facilities and Opportunities:**

Merriman Cross Country Ski Trail on Western side of compartment.

#### Fire Protection:

Fire response will be from the Norway or Crystal Fall DNR stations.

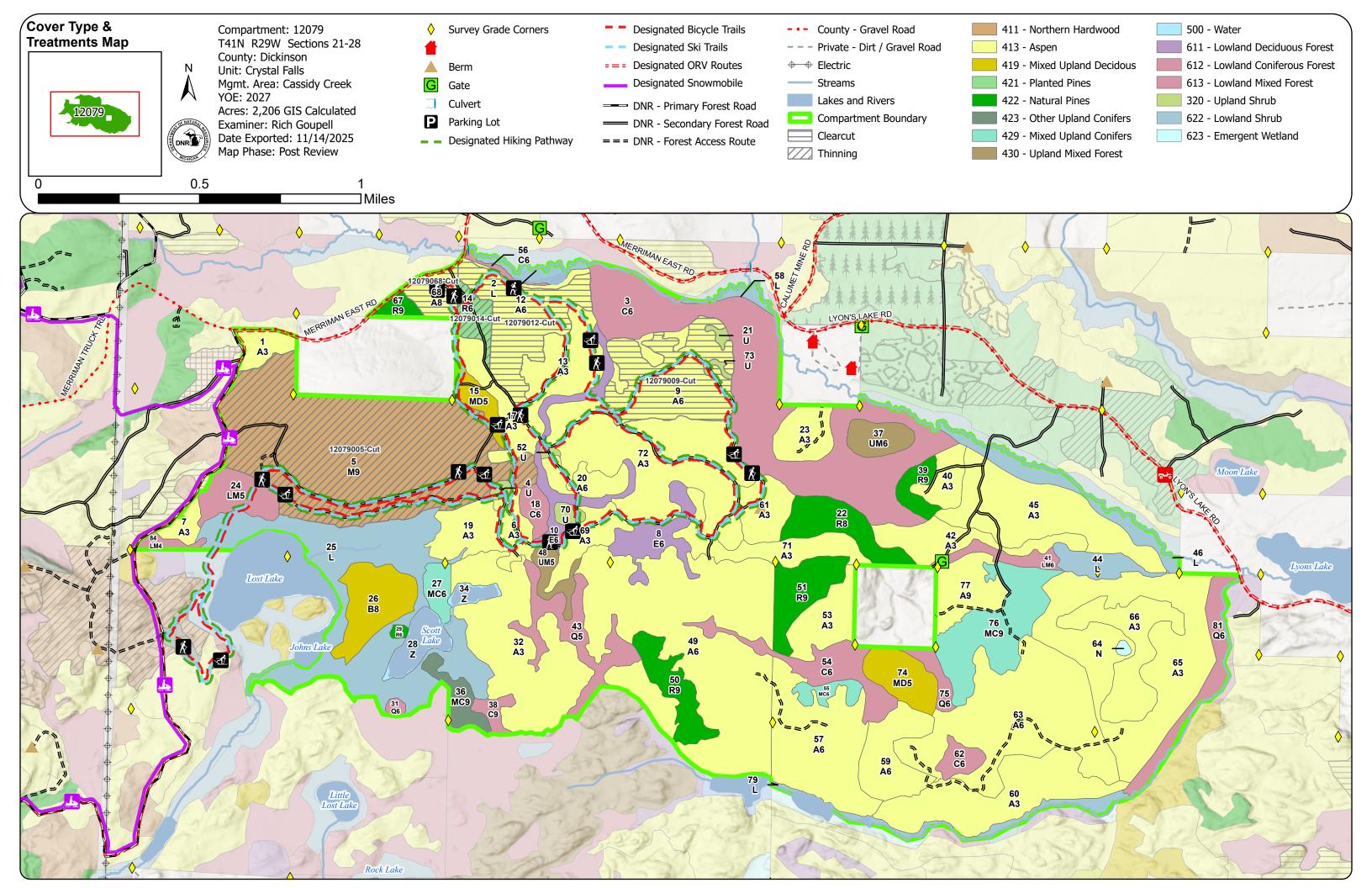
#### **Additional Compartment Information:**

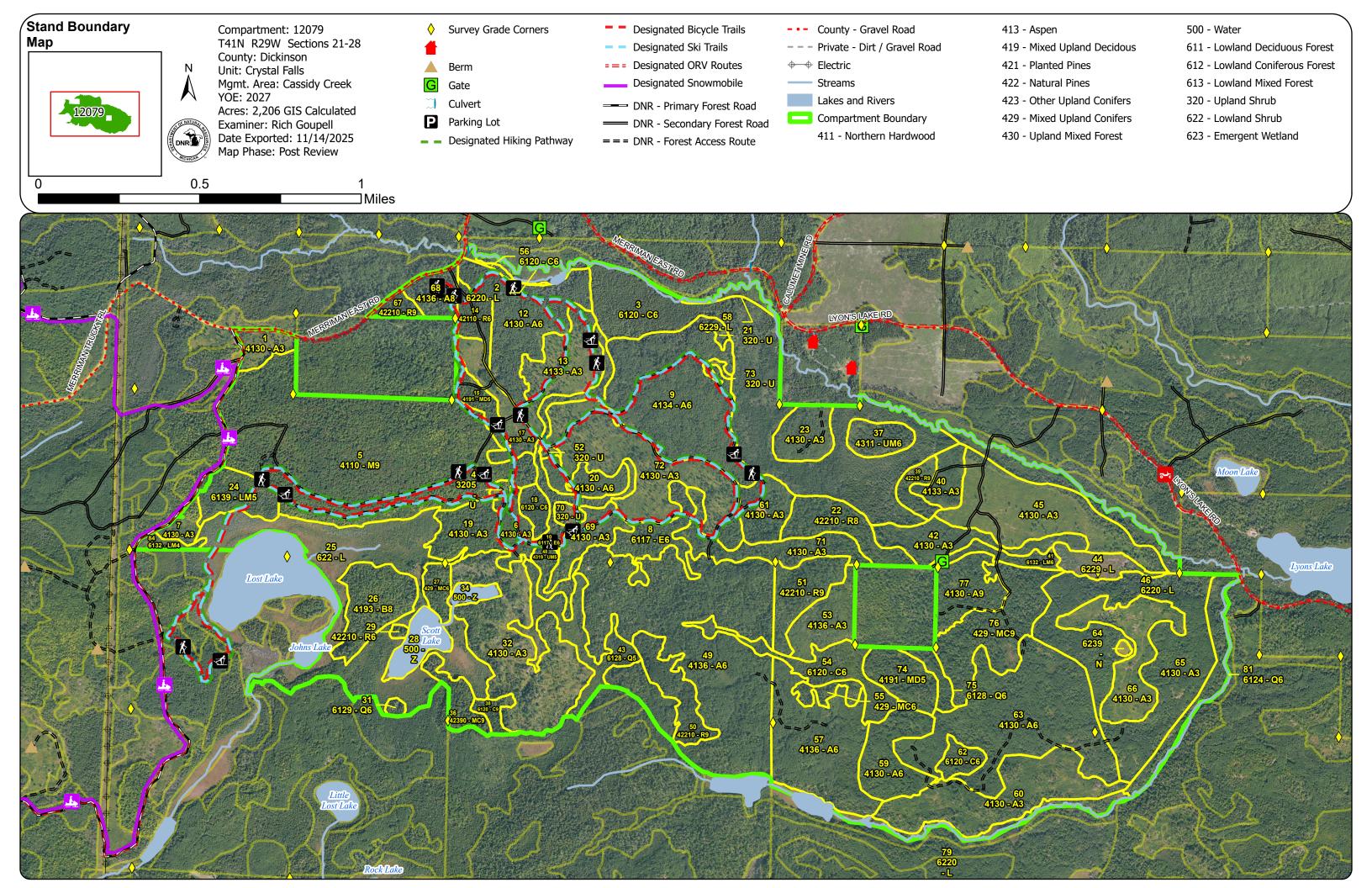
## The following reports from the Inventory are attached:

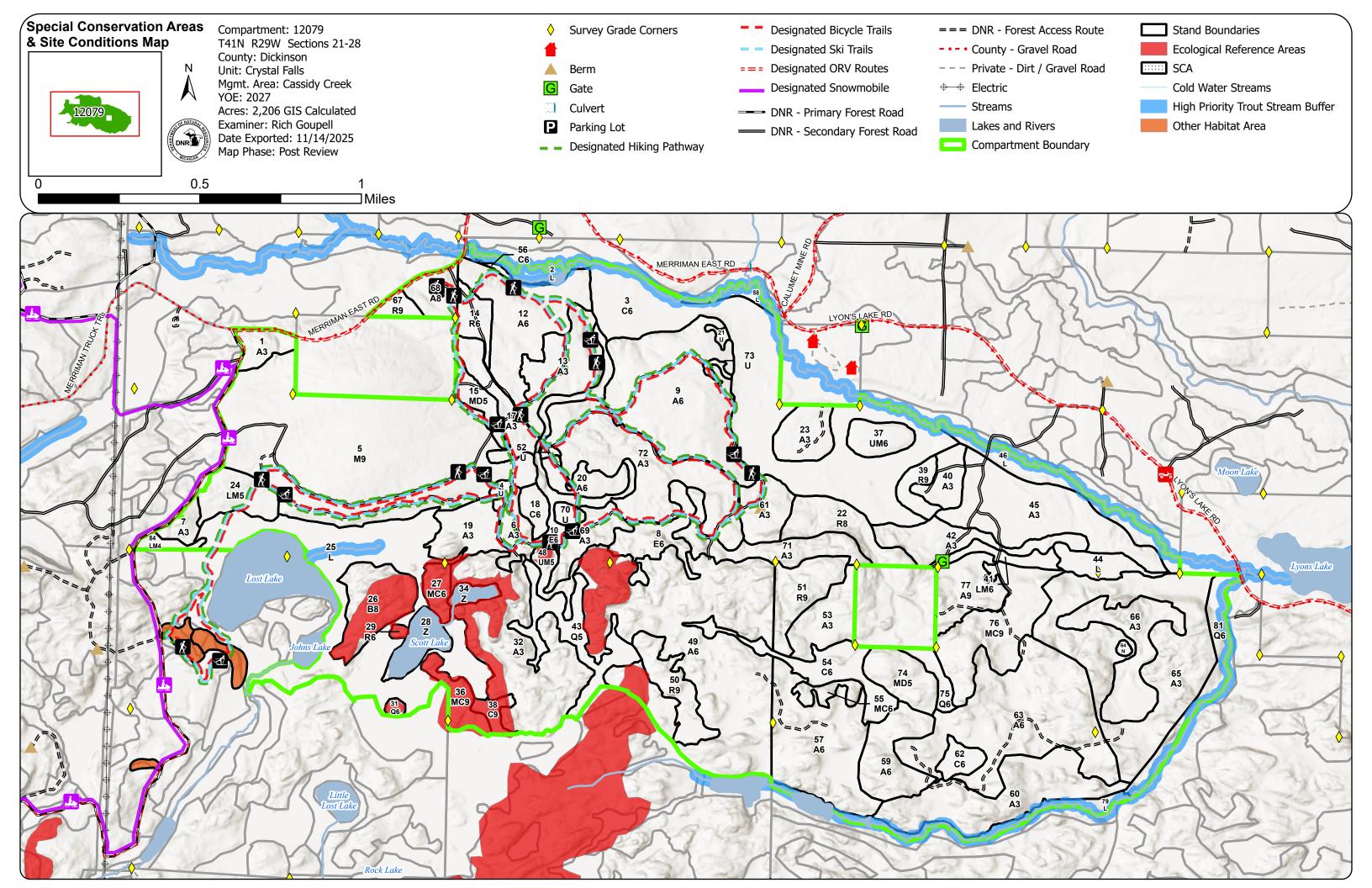
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Compartment 79 Year of Entry 2027

**Crystal Falls Mgt. Unit** Rich Goupell: Examiner



## Age Class

	₹05	ko /	3 / 2			3 / 1			/ \$ / <sup>\$</sup>	R &			70,70					S See	A LOS
Aspen	0	376	88	48	386	169	144	13	0	0	0	0	0	0	0	0	0	0	1224
Cedar	0	0	0	0	0	0	0	0	0	7	155	0	31	0	0	0	0	0	193
Lowland Conifers	0	0	0	0	0	0	0	0	0	36	2	0	22	0	0	0	0	0	60
Lowland Deciduous	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	41
Lowland Mixed Forest	0	0	0	0	0	9	0	4	0	0	0	0	0	19	0	0	0	0	32
Lowland Shrub	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	19	10	0	0	0	0	0	0	0	29
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	201	201
Paper Birch	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	29
Red Pine	0	0	0	0	0	0	0	11	5	0	25	29	23	0	0	0	0	0	93
Upland Conifers	0	0	0	0	0	0	0	0	0	15	0	0	47	12	0	0	0	0	74
Upland Mixed Forest	0	0	0	0	0	12	0	0	9	0	0	0	0	0	0	0	0	0	21
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Total	207	376	88	48	386	190	144	69	14	106	192	29	123	31	0	0	0	201	2204



## **Report 2 – Treatment Summary**

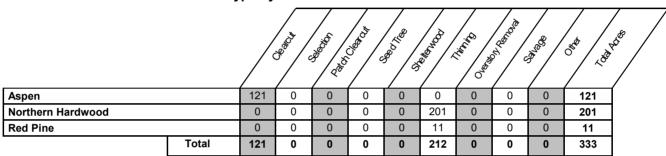
Crystal Falls Mgt. Unit Year of Entry: 2027

#### **Acres of Harvest**

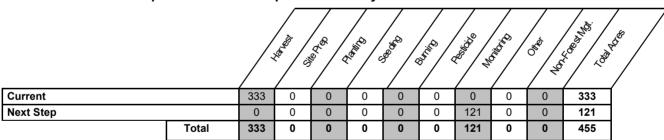
Compartment 79
Total Compartment Acres: 2,206

Commercial Harvest - 454 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

## **Cover Type by Harvest Method**



## **Proposed and Next Step Treatments by Method**



Crystal Falls Mgt. Unit

Report 3 -- Treatments

Compartment: 12079 Year of Entry: 2027

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**Treatment** Name

Acres

Stand CoverType

Size Density

Stand Age

ВА Range **Treatment** Type

**Treatment** Method

Cover Type Objective

Age Structure

Current

Habitat Cut

### **Approved Treatments:**

12079005-Cut

200.9 4110 - Sugar Maple Association

9 150 81-110 Harvest

Thinning

411 - Northern Hardwood

No

Specs:

Prescription Thin to 80 BA following Complete Marker. Remove all Ash, leave all other species represented. Green tree 1-2 ash per acre for soft snags. If pockets of desirable advanced regeneration are found, establish gaps if desired. BA may vary depending on density

Next Step Treatments:

<u>Acceptable</u>

Regen:

Other

Removing Ash due to EAB risk within the stand. Trail protection throughout stand.

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

12079009-Cut

59.1

4134 - Aspen, Spruce/Fir

6

Harvest

Unspec

ified

Clearcut

413 - Aspen

Planting

Nο

Record

Prescription Final harvest following a 3-inch spec. Leave pine, oak, cedar, and hemlock if present.

Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Aspen, maple, birch, spruce, fir, pine.

Regen:

Other Acreage may change based on the line work on southern side and along retention pockets. If applicable, the southern line can and follow the

Comment: smaller, better-quality aspen.

Site Condition:

Proposed Start Date: 10/01/2026

12 12079012-Cut

49.3 4130 - Aspen 6

59

Harvest

Clearcut

413 - Aspen

**Planting** Record

No

Prescription Final Harvest. 3-inch spec. Leaving Pine, Hemlock, Oak, and Cedar if present. Green tree maple, cherry, and birch opportunistically to

Specs:

represent the stand.

Next Step

Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Aspen, Maple, Pine

Regen:

Other 100 ft buffer on north side of stand along Mitchell Creek

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Crystal Falls Mgt. Unit Report 3 -- Treatments Compartment: 12079 S Year of Entry: 2027 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n Objective CoverType Method Name Density Age Range Type Structure Cut d Thinning Planting 14 12079014-Cut 10.8 42110 - Planted 111-Harvest 4211 - Planted No Red Pine Red Pine Record 140 Prescription Thin stand to 100 BA. Consider operability within tighter rows. Specs: Next Step Treatments: <u>Acceptable</u> Regen: Other Comment: Site Condition: Proposed Start Date: 10/01/2026 12079068-Cut 13.0 4136 - Aspen, 8 67 51-80 Harvest Clearcut 4136 - Aspen, **Planting** No Mixed Conifer Mixed Conifer Record Prescription Final Harvest. 3-inch spec. Leaving Pine, Hemlock, Oak, and Cedar if present. Green tree maple, cherry, and birch opportunistically to Specs: represent the stand. Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** 

No retention due to small size of stand. Merriman ski trail head parking present in stand. Use spec to protect trailhead parking lot.

Total Treatment 333.1 Acreage Proposed:

Proposed Start Date: 10/01/2026

Regen:

Other N Comment: Site Condition:

Acceptable Aspen, spruce, fir, birch, maple, pine.

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Availa	ability for	Managemer	nt											
Total	Acres	Acres Avail	Acres		Domina	nt Site	Con	dition	s					
Acres	Available	With Condition	Not Available		5B	5C	2F	2G	2H	3A	3J	3L	5A	5E
952	915	0	37	Aspen							15			22
192	8	0	184	Cedar				31					153	
60	36	0	24	Lowland Conifers						2	22			
41	41	0	0	Lowland Deciduous										
32	23	0	9	Lowland Mixed Forest							9			
159	153	0	6	Lowland Shrub							5		1	
1	1	0	0	Marsh										
26	19	7	0	Mixed Upland Deciduous		7								
201	201	0	0	Northern Hardwood										
29	0	0	29	Paper Birch						29				
80	16	47	16	Red Pine	47				12			4		
65	54	0	11	Upland Conifers						11				
21	12	0	9	Upland Mixed Forest			9							
10	10	0	0	Upland Shrub										
19	19	0	0	Water										
1,888	1,509	54	325	Total Forested Acres	47	7	9	31	12	42	50	4	154	22
	80%	3%	17%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition	
1	Unavailable 5E: Long-Term Retention		12	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified	
	Comments: No cut buffer to Mito	chell Creek.						
2	Unavailable	2F: Too steep	9	Unspecified	Unspecified	Unspecified	Unspecified	
(	Comments:							
(	Comments:							

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3	Unavailable	3A: Conservation values incompatible with harvest at this time	29	2F: Too steep	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
	Comments: Rocky ground, with	wetland to cross to get there.	t is pa	rt of the new DHA.			
4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments: Stream through mi	ddle of stand. No-cut buffer alo	ng Nor	th side of stand.			
5	Unavailable	5A: Not able to obtain desirable regeneration	144	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	15	5E: Long-Term Retention	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified
	Comments:						
7	Available	5B: Maintain for regeneration purposes	24	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: This stand should I understory this YO	pe managed for the Pine/Aspen E.	advan	ced regeneration in the und	lerstory. The timing is not	right to remove overstory and	d release the
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
	7/2025 2:34:44 PM Pag						

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	3L: Other wildlife 4 concerns		1C: Other Dept. or Div. process	Unspecified	Unspecified	Unspecified
Comments: Old growth stand co	ondition favorable to WLD					
Unavailable	5A: Not able to obtain desirable regeneration	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	167	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: counded by steep re	ock ledges and swamp with sta	nding w	/ater			
Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention chucks fo	or wildlife corridors into stand 3.					
Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
	Unavailable Comments: Unavailable Comments: Unavailable Comments: Unavailable Comments:	Unavailable 5E: Long-Term Retention  Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Unavailable 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)  Comments:  Unavailable 5E: Long-Term Retention  Comments:  Unavailable 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)  Comments:  Comments:	Unavailable 5A: Not able to obtain desirable regeneration  Comments:  Unavailable 5E: Long-Term Retention 9  Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Unavailable 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)  Comments:  Ounavailable 5E: Long-Term Retention 6  Comments:  Comments:	Unavailable 5A: Not able to obtain desirable regeneration  Unavailable 5E: Long-Term Retention 9 Unspecified  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Unavailable 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)  Comments:  Unavailable 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)  Comments:  Unavailable 5E: Long-Term Retention 6 Unspecified  Comments:  Unavailable 5E: Long-Term Retention 5 Unspecified	Unavailable 5A: Not able to obtain desirable regeneration 7 Unspecified Somments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Unavailable 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 2F: Too steep soils, does not include access issues)  Comments:  Unavailable 5E: Long-Term Retention 6 Unspecified Unspecifie	Unavailable 5A: Not able to obtain desirable regeneration 7 Unspecified Unspec

Crystal Falls Mgt. Unit
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16	Unavailable	5E: Long-Term Retention	5	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: No cut buffer to Mit	chell Creek.					
17	Unavailable	5A: Not able to obtain desirable regeneration	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: small acreage stan	d surrounded by A3.					
19	Unavailable	5E: Long-Term Retention	1	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Mucho Pine Timbe	r Sale (12-027-17) retention.					
20	Available	5B: Maintain for regeneration purposes	23	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: This stand was cut	10 years ago and needs to let	the reg	en grow.			
21	Unavailable	5A: Not able to obtain desirable regeneration	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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23	Unavailable	3A: Conservation values incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
24	Unavailable	3A: Conservation values incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

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				



Stan	d Level 4 C	over Type		Size Dens	ity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
1	4130  Canopy Species  Quaking Aspen	- Aspen  **Cover** 100	Size Class Sapling	Sapling W		10.7	9	Immature	N/A		This stand was cut during the spring/summer of 2017 part of sale#020-16-01. Scattered Pine and Hemlock left from cut
2	6220 - A	lder/Willow		None		7.8			No		
3	6120 - Lo	wland Ceda	r F	Poletimber	Well	144.9	94	111-140	N/A		Mostly Cedar with pockets of pure Tamarack and Spruce scattered
	Canopy Species	% Cover	Size Class	DBH A	\ge	Sub-Ca	nopy Species	Density	Avg. Height	Size	within stand. At least one small area of spruce blow down observed.
	Black Spruce	20	Pole	7		Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
No	orthern White Cedar	60	Log/Pole	11 !	94	Ва	ılsam Fir	Medium	Variable	Variable	
	Tamarack	20	Pole	8		Blad	ck Spruce	Medium	Variable	Variable	
						Northerr	n White Cedar	Low	Variable	Variable	
4	3205 - Mixed	l Upland Sh	rub	None		2.0			No		Stand origin 1990. Some younger pine and spruce present.
5	4110 - Sugar N	laple Assoc	iation \$	Sawtimber	Well	200.9	150	81-110	N/A		Stand cut 2005, Gun Barrels. Large overall DBH distribution. White ash log trees should be considered for removal when harvested next.
	Canopy Species	% Cover	Size Class	DBH A	\ge	Sub-Ca	nopy Species	s Density	Avg. Height	Size	Some white pine overstory and understory present on the south edge
	Sugar Maple	50	Log/Pole	14 1	50	W	hite Ash	Low	5 - 10 feet	5 - 10 feet	of the stand along the lowland.
	Basswood	35	Log	14		Ва	ılsam Fir	Low	5 - 10 feet	5 - 10 feet	
	White Ash	15	XLog/Log	18		Sug	gar Maple	Low	10 - 20 feet	10 - 20 feet	
						Iro	onwood	Medium	10 - 20 feet	10 - 20 feet	
6	4130	- Aspen		Sapling W	/ell	12.4	15	Immature	N/A		Many different species in supercanopy left unharvested from last
	Canopy Species	% Cover	Size Class	DBH A	\ae						treatment. Small rock outcroppings throughout. A couple
	Quaking Aspen	100	Sapling		15						inaccessible areas due to rock and water. Harvested 2010.
7	4130	- Aspen		Sapling W	Vell	6.8	12	Immature	N/A		Some balsam fir and cedar left on the southern side from previous
	Canopy Species	% Cover	Size Class	DBH A	Age						harvest. Balsam poplar, paper birch, and balsam fir on the eastern edge. Harvested 2013, Bits and Pieces Sale (Sale # 12-055-11-01).
	Quaking Aspen	100	Sapling		12						edge. Harvested 2013, bits and Pieces Sale (Sale # 12-055-11-01).
8	6117 - Lowland Con	Deciduous, iferous	Mixed F	Poletimber	Well	20.0	61	81-110	N/A		Scattered paper birch, red maple, and aspen that could be considered merchantable. Cedar, spruce, and fir scattered in wetter areas. Large
	Canopy Species	% Cover	Size Class	DBH A	\ge	Sub-Ca	nopy Species	Density	Avg. Height	Size	amounts of dead standing ash.
	Red Maple	15	Pole	7			ack Ash	Low	5 - 10 feet	5 - 10 feet	
	Paper Birch	20	Pole	7		Ва	ılsam Fir	Low	5 - 10 feet	5 - 10 feet	
	Balsam Poplar	35	Log/Pole	10	61	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	10	Pole/Sapling	7							-
	Black Spruce	10	Pole/Sapling	6							
No	orthern White Cedar	5	Log/Pole	10							
	Black Ash	5	Sapling	4							



Stand	d Level 4 C	vel 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments						
9	4134 - Asp	en, Spruce/	Fir F	Poletimb	er Well	91.7	50 L	Inspecified	N/A	Λ.	Some budworm damage observed on understory fir. Aspen is varying
	Canopy Species	% Cover	Size Class	DBł	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	densities.Apparent wet area / drainage on western side of stand butting up to stand 10. Some of the wet area could be reserved. A
	Quaking Aspen	80	Pole/Log	7	50	WI	nite Pine	Trace	5 - 10 feet	5 - 10 feet	little more pine on eastern side. Seems to be slightly smaller Aspen
	Balsam Fir	20	Pole/Sapling	5		Ва	lsam Fir	High	Variable	Variable	on that side as well.
						Pa	per Birch	Trace	5 - 10 feet	5 - 10 feet	
						R	ed Pine	Trace	10 - 20 feet	10 - 20 feet	
10	6117 - Lowland Con	Deciduous, iferous	Mixed F	Poletimb	er Well	21.0	61	81-110	N/A	1	Merchantable balsam poplar present. Cedar, spruce, and fir scattere in wetter areas. large amounts of dead standing ash.
	Canopy Species	% Cover	Size Class	DBł	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	10		9		Ва	lsam Fir	Low	5 - 10 feet	5 - 10 feet	
	Paper Birch	15		9		Bl	ack Ash	Low	5 - 10 feet	5 - 10 feet	
	Balsam Poplar	35	Pole/Log	9	61	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	15	Pole	7				'			_
	Black Spruce	10	Pole/Sapling	6							
No	orthern White Cedar	10	Log/Pole	10							
	Black Ash	5	Sapling	4							
12	4130	- Aspen	F	Poletimb	er Well	52.3	59		N/A	\	Scattered supercanopy Pines found throughout stand. Strip of older
	Canopy Species	% Cover	Size Class	DBł	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Aspen near creek within buffer.
	Red Maple	5	Pole/Log	8		Ва	lsam Fir	Medium	Variable	Variable	
	Quaking Aspen	85	Pole	6	59	R	ed Pine	Low	>20 feet	>20 feet	
	White Pine	5	Log	14		Whi	te Spruce	Medium	Variable	Variable	
	Red Pine	5	Log	14		Re	d Maple	Low	Variable	Variable	
						Hazelr	nut (Beaked)	Medium	5 - 10 feet	5 - 10 feet	
						WI	nite Pine	Medium	Variable	Variable	
13	4133 - Aspe	en, Mixed Pi	ne	Saplin	g Well	33.4	7	1-50	N/A	١	Part of Little Paw sale cut fall 2018/spring2019. A few scattered whit
	Canopy Species	% Cover	Size Class	DBł	l Age						pine
	Quaking Aspen	80	Sapling	1	7						
	Red Pine	20	Log	14	101						
14	42110 - Pla	inted Red Pi	ine F	Poletimb	er Well	10.8	65	111-140	N/A	\	Cut 2018 part of Little Paw Sale. Aspen was removed and third row
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	thinning. A few aspen were left
	Red Pine	100	Pole	8	65	Ва	lsam Fir	Low	Variable	Variable	
				,		Haze	Inut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	
						Re	ed Maple	Low	5 - 10 feet	5 - 10 feet	



Stand	d Level 4 C	over Type	er Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments				
15	4191 - Mixed Upla Co	and Decidu onifer	ous with Pol	etimber Mediur	n 10.2	94	51-80	N/A	1	Harvested 2000. Many trees left unharvested when last treated. Aspen in understory is not fully stocked.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	50	Log	12 94	Ва	lsam Fir	Low	Variable	Variable	
	Paper Birch	15	Pole/Sapling	6	Quak	ing Aspen	Medium	10 - 20 feet	10 - 20 feet	
	Balsam Fir	20	Pole/Sapling	6	Iro	nwood	Low	Variable	Variable	
	White Spruce	15	Pole/Sapling	6						-
17	4130	- Aspen		Sapling Well	18.4	7 I	mmature	N/A	١	Part of Little Paw sale cut fall 2018. Scattered super canopy white
	Canopy Species	% Cover	Size Class	DBH Age						pine.
	Quaking Aspen	100	Sapling	1 7						
18	6120 - Lov	wland Ceda	ar P	oletimber Well	7.0	86	111-140	N/A	٨	Cedar stand still doing well. Standing dead ash scattered.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Balsam Poplar	10	Log/Pole	10	Та	g Alder	Low	5 - 10 feet	5 - 10 feet	
	White Spruce	10	Log/Pole	10	Ва	lsam Fir	Low	Variable	Variable	
No	orthern White Cedar	80	Pole	9 86						
19	4130	- Aspen		Sapling Well	20.2	35		N/A	١	Many trees in overstory left unharvested from last cut. Small wet
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Black Ash drainage along South side of stand.
	Sugar Maple	5	Pole	8	Ва	lsam Fir	Low	10 - 20 feet	10 - 20 feet	
	Red Maple	5	Pole	9	Iro	nwood	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	75	Pole/Sapling	6 35						
	Balsam Fir	10	Pole/Sapling	6						
	White Pine	5	Log	16						
20	4130	- Aspen	P	oletimber Well	12.9	47 U	nspecified	N/A	٨	Healthy aspen. Super canopy white pine present. Hold until next cycl
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	to harvest.
	Red Maple	10	Pole	8	Ва	lsam Fir	Low	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	75	Pole	9 47	Iro	nwood	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	10	Pole/Sapling	6						
	White Spruce	5	Pole/Sapling	7						
21	320 - Up	land Shrub	1	None	1.6			No		Still consist of opening. If stand 9 were to be harvested, this stand would be enveloped into it. SOME Aspen coming up around the edge 1-4 dbh with spruce and white pine mixed in.



Stand	Level 4 Co	over Type	5	Size Density	Acres	Stand Age B	A Range	Managed Site		General Comments
22	42210 - Nat	ural Red P	ine Sav	wtimber Medium	24.2	99	51-80	N//	A	Large diameter Pine stand where other species were removed in
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	1999. Birch, Cedar, Hemlock and Maple within stand are inaccessible and growing amongst the rocks. Rock wall on South side of stand.
	Red Maple	10	Pole/Log	9	R	ed Pine	Medium	5 - 10 feet	5 - 10 feet	Small drainages exist. Wetter to the East. Understory of White Pine,
	Red Oak	5	Log/Pole	12	WI	nite Pine	Medium	Variable	Variable	Aspen, and red pine is growing well and should be released when the
	White Pine	15	Log/Pole/Sap	13	Qual	king Aspen	High	Variable	Variable	time is right.
	Red Pine	70	Log/XLog	15 99	Re	d Maple	Low	>20 feet	>20 feet	
					Pa	per Birch	Low	>20 feet	>20 feet	
					Hazelr	ut (Beaked)	Low	5 - 10 feet	5 - 10 feet	
23	4130	- Aspen		Sapling Well	17.4	26 I	mmature	N/A	4	Large supercanopy Pines found throughout stand. Cut in 1999 part of
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Calumet South Aspen.
	Quaking Aspen	100	Pole/Sapling	5 26	Ва	lsam Fir	Medium	Variable	Variable	
					Bra	cken Fern	Medium	Not Applicable	Not Applicable	
24	6139 - Mixed	Lowland F	orest Pol	etimber Medium	18.9	121	81-110	N//	Α	Some dead ash very scattered. Large mix of species. Consider next
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	cycle for harvest.
	Yellow Birch	20	Log/Pole	11 121		Isam Fir	Medium	10 - 20 feet	10 - 20 feet	
	Paper Birch	10	Pole	7	Blad	ck Spruce	Medium	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	20	Pole/Log	7 39						
	Balsam Fir	20	Pole	6						
	Black Spruce	15	Pole/Sapling	6						
No	orthern White Cedar	10	Pole	9						
	Hemlock	5	Pole	8						
25	622 - Low	land Shrul	o	None	114.6			No	)	Dead trees (ash) still in canopy. Tag elder understory. Scattered
					Sub-Ca	nopy Species	Density	Avg. Height	Size	tamarack in southeastern area.
					Ta	ng Alder	High	5 - 10 feet	5 - 10 feet	
26	4193 - Bi	rch, Asper	n Sav	wtimber Medium	29.4	88	51-80	N//	4	Mos of this stand is in the Dry Mesic Northern forest ERA.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	15		10	Sug	jar Maple	Low	Variable	Variable	
	Paper Birch	55	Log/Pole	12 88	Re	d Maple	Low	Variable	Variable	
	Quaking Aspen	15	Log/Pole	10						-
	Bigtooth Aspen	5		10						
	Balsam Fir	5	Pole/Log	8						
	White Pine	5	XLog/Log	18						



Stan	d Level 4 Co	Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		te	General Comments						
27	429 - Mixed L	Ipland Con	ifers Po		er Well	8.2	81	81-110	N/A		Very rocky with ridges. Cedar lowland in center of stand. Red pine in southern area of stand on higher ground.
	Canopy Species	% Cover	Size Class		l Age	Sub-Cano	py Species	Density	Avg. Height	Size	southern area or stand on higher ground.
	Quaking Aspen	25	Pole	7	46	Balsa	ım Fir	Medium	10 - 20 feet	10 - 20 feet	
	Balsam Fir	15	Pole/Sapling	6		White	Spruce	Low	10 - 20 feet	10 - 20 feet	
	White Spruce	15	Pole/Sapling	6							
N	orthern White Cedar	10	Pole	8	91						
	Red Pine	35	Log/Pole	10	81						
28	500 -	Water		Noi	ne	14.3			No		
29	42210 - Nat	ural Red Pi	ne Po	oletimb	er Well	1.3	91	81-110	N/A		Stand is in the Dry Mesic Northern Forest Era.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cano	py Species	Density	Avg. Height	Size	
	White Pine	20		10		White	e Pine	Low	Variable	Variable	
	Red Pine	80		10	91	Red	Pine	Low	Variable	Variable	
31	6129 - Mixed Conife	erous Lowla	and Forest Po	oletimb	er Well	1.8	96		N/A		The stand is in the Dry Mesic Northern Forest
32				Sapling	y Well	81.4	5 Ir	mmature	N/A		Stand cut with Jurassic Aspen Mix T-sale #12-007-18. Finished cutting stand January 2020. Stand retention around small lake (Stand 6).
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cano	py Species	Density	Avg. Height	Size	Pine left on rock ridges. Cedar ridge present on north side of stand.
	Red Maple	10	Sapling	1		Hazelnı	ıt (Spp.)	Low	5 - 10 feet	5 - 10 feet	Maple stump sprouts spread throughout. Pine left throughout western
	Quaking Aspen	90	Sapling	1	5						ridge line.
34	500 -	Water		Noi	ne	5.1			No		offshoot of Scott Lake
36	42390 - Mixed Non-	Pine Uplan	Jpland Conifers Sawtimber Well			11.9 129 81-110			N/A		mixed upland cedar and hemlock on rock knobs. very little understory
	Canopy Species	% Cover	Size Class		l Age	Sub-Cano	py Species	Density	Avg. Height	Size	in most areas. rock ledge throughout. extremely poor to no access. Some blow over from bud worm damage. Stand is in the Dry Mesic
	Red Maple	10	Log	12		Balsa	ım Fir	Low	10 - 20 feet	10 - 20 feet	Northern Forest ERA.
	Paper Birch	15	Log/Pole	13		Hazelnut	(Dooked)		E 40 E t		
	D			13		riazoniat	(beaked)	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	10	Pole	8		Tidzomat	(Беакец)	Low	5 - 10 feet	5 - 10 feet	
N	orthern White Cedar	10 35	Pole Log		129	Hazamat	(Беакеа)	Low	5 - 10 feet	5 - 10 feet	
N				8	129	T IOLO III I	(Беакец)	Low	5 - 10 feet	5 - 10 feet	
37	orthern White Cedar Hemlock 4311 - Pine	35 30 e, Aspen M	Log Log/Pole ix Po	8 14 12	er Well	12.3	48	81-110	N/A		Some very large diameter Pines in supercanopy. Relatively poor access. Aspen could be monitored for harvest.
	Hemlock 4311 - Pine Canopy Species	35 30 e, Aspen M <b>% Cover</b>	Log Log/Pole ix Po	8 14 12 Deletimb	er Well	12.3 Sub-Cano	48 py Species	81-110 <b>Density</b>	N/A Avg. Height	Size	Some very large diameter Pines in supercanopy. Relatively poor access. Aspen could be monitored for harvest.
	Hemlock  4311 - Pine  Canopy Species  Quaking Aspen	35 30 e, Aspen M <b>% Cover</b> 50	Log Log/Pole ix Pole Size Class Pole	8 14 12 oletimb	er Well	12.3 Sub-Cano Black	48  py Species  Spruce	81-110  Density  Medium	N/A Avg. Height Variable	<b>Size</b> Variable	
	Hemlock  4311 - Pine  Canopy Species  Quaking Aspen  Balsam Fir	35 30 e, Aspen M % Cover 50 10	Log Log/Pole ix Polician Pole Size Class Pole Pole/Sapling	8 14 12 Deletimb	er Well	12.3 Sub-Cano Black	48 py Species	81-110 <b>Density</b>	N/A Avg. Height	Size	
	Hemlock  4311 - Pine  Canopy Species  Quaking Aspen	35 30 e, Aspen M <b>% Cover</b> 50	Log Log/Pole ix Pole Size Class Pole	8 14 12 oletimb	er Well	12.3 Sub-Cano Black	48  py Species  Spruce	81-110  Density  Medium	N/A Avg. Height Variable	<b>Size</b> Variable	



Stan	d Level 4 C	el 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		Site	General Comments						
38	6120 - Lo	wland Ceda	r Sa	awtimb	er Well	5.4	111	111-140	N/A	4	Center of stand heavier to tamarack/b spruce. very wet sections of the stand. Red pine ridge runs on east side of stand. Lowland cedar
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canop	y Species	Density	Avg. Height	Size	still doing well.
	Balsam Fir	5	Pole/Sapling	6		Balsan	n Fir	Medium	10 - 20 feet	10 - 20 feet	
	Black Spruce	20	Pole/Sapling	7		Tag Al	lder	High	5 - 10 feet	5 - 10 feet	
N	orthern White Cedar	50	Log/Pole	13	111						
	Tamarack	20	Pole	9							
	Black Ash	5	Pole	7							
39	42210 - Natural Red Pine		ne Sa	awtimb	er Well	8.9	105	51-80	N/A	4	Large diameter Pine stand. Cut 2019 part of Hazelnut Soup. All Pine
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canop	y Species	Density	Avg. Height	Size	reserved. Aspen coming up well.
	Red Pine	100	Log/XLog	16	105	Quaking .	Aspen	High	5 - 10 feet	5 - 10 feet	
		,				Bracken	Fern	High	Not Applicable	Not Applicable	
40	4133 - Aspe	n, Mixed Pi	ine S	Saplin	g Well	12.4	24 Ir	nmature	N/A	4	The regenerating Aspen stand is almost as tall at the planted 55 year
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canop	y Species	Density	Avg. Height	Size	old Red Pine. Stand should be managed as Aspen. Cut in 2001.
	Quaking Aspen	75	Sapling	3	24	Hazelnut (E	Beaked)	Medium	5 - 10 feet	5 - 10 feet	
	Red Pine	25	Pole	8							•
41						9.0	48	81-110	N/A	Ą	Trace amounts of Sugar Maple and Pine. Stream through middle of stand. Standing dead black ash, mostly on east side. Balsam poplar
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canop	y Species	Density	Avg. Height	Size	getting to merchantable size.
	Quaking Aspen	10	Pole	8	48	Balsan		Low	Variable	Variable	
	Balsam Poplar	40	Pole	8	48	Tag Al	lder	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	10	Pole/Sapling	6		14/1:1					
						White S	pruce	Low	Variable	Variable	
	White Spruce	10	Log/Pole	12		Black A	•	Low	Variable Variable	Variable Variable	
	White Spruce Black Spruce	10 5	Log/Pole Pole/Sapling	12 7		'	•				
No	· ·					'	•				
N	Black Spruce	5	Pole/Sapling	7		'	•				
42	Black Spruce lorthern White Cedar Black Ash	5 20	Pole/Sapling Log/Pole Sapling	7	g Well	'	Ash			Variable	Harvested 2010. Many different species in super canopy left
	Black Spruce lorthern White Cedar Black Ash	5 20 5 - Aspen	Pole/Sapling Log/Pole Sapling	7 14 4 Sapling	g Well	Black /	Ash 15 Ir	Low	Variable	Variable	Harvested 2010. Many different species in super canopy left unharvested from last treatment. Small rock outcroppings throughout. A couple inaccessible areas due to rock and water.
	Black Spruce lorthern White Cedar Black Ash	5 20 5 - Aspen	Pole/Sapling Log/Pole Sapling	7 14 4 Sapling		Black 2	Ash  15 Ir y Species	Low	Variable N/A	Variable A Size	unharvested from last treatment. Small rock outcroppings throughout. A couple inaccessible areas due to rock and water.
	Black Spruce orthern White Cedar Black Ash  4130 Canopy Species Quaking Aspen  6128 - Lowland	5 20 5 - Aspen % Cover 100	Pole/Sapling  Log/Pole Sapling  Size Class Sapling	7 14 4 Saplino	l Age	25.8  Sub-Canop  Bracken	Ash  15 Ir y Species	Low mmature Density	Variable  N/A  Avg. Height	Variable  A Size  Not Applicable	unharvested from last treatment. Small rock outcroppings throughout. A couple inaccessible areas due to rock and water.  Extremely wet - standing water. South end is heavier to black ash saplings. Most overstory ash has died. There is a conifer and cedar
42	Black Spruce orthern White Cedar Black Ash  4130 Canopy Species Quaking Aspen  6128 - Lowland	5 20 5 - Aspen % Cover 100 Coniferous, iduous	Pole/Sapling  Log/Pole Sapling  Size Class Sapling	7 14 4 Saplino DBH 3	<b>1 Age</b> 15	25.8  Sub-Canop  Bracken	15 Ir y Species Fern 81	nmature  Density  Medium	Variable  N/A  Avg. Height  Not Applicable	Variable  A Size  Not Applicable	unharvested from last treatment. Small rock outcroppings throughout. A couple inaccessible areas due to rock and water.  Extremely wet - standing water. South end is heavier to black ash
42	Black Spruce forthern White Cedar Black Ash  4130  Canopy Species Quaking Aspen  6128 - Lowland	5 20 5 - Aspen % Cover 100 Coniferous, iduous	Pole/Sapling  Log/Pole Sapling  Size Class Sapling  Mixed Pole	7 14 4 Saplino DBH 3	15 15 Medium	25.8  Sub-Canop  Bracken  n 29.4	15 Ir y Species Fern 81 y Species	nmature  Density  Medium  51-80	Variable  N/A  Avg. Height  Not Applicable	Variable  Size  Not Applicable	unharvested from last treatment. Small rock outcroppings throughout. A couple inaccessible areas due to rock and water.  Extremely wet - standing water. South end is heavier to black ash saplings. Most overstory ash has died. There is a conifer and cedar
42	Black Spruce lorthern White Cedar Black Ash  4130  Canopy Species Quaking Aspen  6128 - Lowland Dec  Canopy Species	5 20 5 - Aspen % Cover 100 Coniferous, duous % Cover	Pole/Sapling  Log/Pole Sapling  Size Class Sapling  Mixed Pole  Size Class	7 14 4 Sapling DBH 3	15 15 Medium	25.8  Sub-Canop  Bracken  29.4  Sub-Canop	15 Ir y Species Fern 81 y Species	nmature  Density  Medium  51-80  Density	Variable  N/A  Avg. Height  Not Applicable  N/A  Avg. Height	Variable  Size  Not Applicable  A  Size	unharvested from last treatment. Small rock outcroppings throughout. A couple inaccessible areas due to rock and water.  Extremely wet - standing water. South end is heavier to black ash saplings. Most overstory ash has died. There is a conifer and cedar
42	Black Spruce Forthern White Cedar Black Ash  4130  Canopy Species Quaking Aspen  6128 - Lowland Dec  Canopy Species Balsam Poplar	5 20 5 - Aspen	Pole/Sapling  Log/Pole Sapling  Size Class Sapling  Mixed Pole  Size Class Pole/Sapling	7 14 4 Sapling DBH 3 DBH 6	15 15 Medium	25.8  Sub-Canop  Bracken  29.4  Sub-Canop	15 Ir y Species Fern 81 y Species	nmature  Density  Medium  51-80  Density	Variable  N/A  Avg. Height  Not Applicable  N/A  Avg. Height	Variable  Size  Not Applicable  A  Size	unharvested from last treatment. Small rock outcroppings throughout. A couple inaccessible areas due to rock and water.  Extremely wet - standing water. South end is heavier to black ash saplings. Most overstory ash has died. There is a conifer and cedar
43	Black Spruce forthern White Cedar Black Ash  4130 Canopy Species Quaking Aspen  6128 - Lowland Dec Canopy Species Balsam Poplar Balsam Fir	5 20 5 - Aspen % Cover 100 Coniferous, iduous % Cover 15 15	Pole/Sapling  Log/Pole Sapling  Size Class Sapling  Mixed Pole  Size Class Pole/Sapling  Pole/Sapling	7 14 4 Sapling  DBH 3 etimbe  DBH 6 6	15 15 Medium	25.8  Sub-Canop  Bracken  29.4  Sub-Canop	15 Ir y Species Fern 81 y Species	nmature  Density  Medium  51-80  Density	Variable  N/A  Avg. Height  Not Applicable  N/A  Avg. Height	Variable  Size  Not Applicable  A  Size	unharvested from last treatment. Small rock outcroppings throughout. A couple inaccessible areas due to rock and water.  Extremely wet - standing water. South end is heavier to black ash saplings. Most overstory ash has died. There is a conifer and cedar

Compartment: 79 Year of Entry: 2027 DNR DNR

Stand	d Level 4 Cover Type			Size Density			Stand Age E	BA Range	Managed Si	ite	General Comments
44	6229 - Mixed	Lowland S	hrub	Nor	ie	12.3			No		Some red maple and balsam poplar saplings scattered on the edges.
						Sub-Can	opy Species	Density	Avg. Height	Size	Some larger dead standing balsam poplar on edges as well.
						Black	Spruce	Low	5 - 10 feet	5 - 10 feet	
						Balsar	m Poplar	Low	5 - 10 feet	5 - 10 feet	
						Red	Maple	Low	5 - 10 feet	5 - 10 feet	
						Tag	Alder	Medium	5 - 10 feet	5 - 10 feet	
						Bals	am Fir	Low	5 - 10 feet	5 - 10 feet	
45	4130	- Aspen		Sapling	Well	63.3	6	Immature	N/A		Cut Fall of 2019 part of Hazelnut Soup. Some pine left in the
	Canopy Species	% Cover	Size Class	DBH	Age						overstory. Buffered mitchell creek 300 feet. Long term retention along north side bordering water.
	Quaking Aspen	100	Sapling	2	6						north side bordening water.
46	6220 - A	lder/Willow	,	Nor	ie	21.6			No		Borders Mitchell Creek.
						Sub-Can	opy Species	Density	Avg. Height	Size	
						Tag	Alder	Medium	5 - 10 feet	5 - 10 feet	
48	4319 - Mixed	l Upland Fo	orest Pol	etimber	Mediu	m 8.6	76	51-80	N/A		Wet area running through it from stand 10 to 43. Rock ridge could
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	impact harvestability. Pine in dominant overstory.
	Red Maple	5	Pole	9		Bals	am Fir	Low	5 - 10 feet	5 - 10 feet	
	Paper Birch	40	Log/Pole	10	76						
	Balsam Fir	20	Pole/Sapling	6							
	White Spruce	10	Pole/Sapling	7							
	White Pine	10	Log/Pole	13							
	Red Pine	15	Log/Pole	12							
49	4136 - Aspen	n, Mixed Co	nifer P	oletimb	er Well	174.9 37 111-		111-140	1-140 N/A		Aspen is healthy. Scattered drainages and other wet areas within the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	stand. Standing dead black ash, cedar, and tag alder present within the wet areas. Red and White Pine very scattered on the north side.
	Red Maple	5	Pole/Log	8		Bals	am Fir	Low	5 - 10 feet	5 - 10 feet	Rock outcrops present throughout the stand as well that could impact
	Paper Birch	5	Pole/Log	9		White	Spruce	Low	5 - 10 feet	5 - 10 feet	harvestability. *Consider breaking up and harvesting portion next cycle.
	Quaking Aspen	55	Pole	6	37			'			-
	Bigtooth Aspen	5	Pole	7							
	Balsam Fir	5	Pole/Sapling	5							
	White Spruce	5	Pole	6							
No	rthern White Cedar	10	Pole/Log	9							
	White Pine	5	Log/Pole	12							
	Red Pine	5	Log/Pole	11							
50	42210 - Nat	tural Red P	ine S	awtimb	er Well	20.4	105	111-140	N/A		r pine on rock top. good form. A few scattered White Pine.
	Canopy Species	% Cover	Size Class		Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Maple	5	Pole	8		Pape	er Birch	Medium	>20 feet	>20 feet	
	Red Pine	95	Log	12	105	Bals	am Fir	Medium	10 - 20 feet	10 - 20 feet	



Stan	d Level 4 Co	Level 4 Cover Type		Size De	nsity	Acres S	Stand Age B	A Range	Managed S	Site	General Comments
51	42210 - Nat	ural Red P	ine	Sawtimber Well		23.0	116	51-80	N/A	A	Red pine throughout stand. Has a wet area running through it. Has a spen and red maple coming up in the understory but could be
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Can	opy Species	Density	Avg. Height	Size	considered for pine management.
	Red Maple	15	Pole	6		Bals	am Fir	Low	5 - 10 feet	5 - 10 feet	- considered for pine management
	Quaking Aspen	15	Pole	6	16						-
	Balsam Fir	10	Pole	8							
	Red Pine	60	Log/Pole	14	116						
52	320 - Up	land Shrub	)	No	ne	1.2			No	)	Origin 1972. A few Aspen coming up because of stand 72 (6 years old). Some spruce and pine present.
53	4136 - Aspen	, Mixed Co	nifer	Saplin	y Well	21.9	32		N/A	4	Mix of trees left in overstory. Some wet ground in the middle of the
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Can	opy Species	Density	Avg. Height	Size	stand.
	Quaking Aspen	80	Pole	8	32		am Fir	Low	10 - 20 feet	10 - 20 feet	
	Balsam Fir	5	Pole	6		White	Spruce	Low	5 - 10 feet	5 - 10 feet	
	White Spruce	5	Pole	6	L L						1
	Red Pine	10	Log/Pole	10							
54	6120 - Lov	wland Ceda	ar I	Poletimb	er Well	25.8	111	111-140	N/A	4	Black Ash has died due to EAB. Wet area continues to move into
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	stand 49.
	Balsam Fir	5	Pole/Sapling	g 5		Blac	k Ash	High	< 5 feet	< 5 feet	
	Black Spruce	10	Pole	5							
No	orthern White Cedar	85	Pole/Log	8	111						
55	429 - Mixed L	Jpland Con	nifers I	Poletimb	er Well	6.8	85	81-110	N/A	4	Slopes down in to stand 54. A very mixed stand. Cedar scattered
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Can	opy Species	Density	Avg. Height	Size	throughout stand.
	Sugar Maple	5	Pole	7		Hazelnu	t (Beaked)	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	10	Pole	8	<u> </u>						
	Paper Birch	5	Pole/Log	8							
	Quaking Aspen	15	Pole	6							
	Balsam Fir	10	Pole/Sapling	9 6							
	White Spruce	10	Pole/Sapling	9 6							
No	orthern White Cedar	25	Pole	7	85						
	Red Pine	20	Log/Pole	11							
56	6120 - Lov	wland Ceda	ar I	Poletimb	er Well	2.4	94 U	nspecified	N/A	4	Mostly Cedar with pockets of pure Tamarack and Spruce scattered
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Can	opy Species	Density	Avg. Height	Size	within stand.
	Black Spruce	20	Pole/Sapling	9 6		Bals	am Fir	Medium	Variable	Variable	
No	orthern White Cedar	60	Pole/Sapling	9 6	94	Tag	Alder	Medium	5 - 10 feet	5 - 10 feet	
	Tamarack	20	Pole/Sapling	7		Black	Spruce	Medium	Variable	Variable	



Stan	d Level 4 C	over Type		Size De	nsity	Acres S	Stand Age	BA Range	Managed S	ite	General Comments
57	4136 - Aspen	<i>.</i>		oletimb		63.7	37		N/A		Wet areas scattered throughout. Large bigtooth throughout stand.  Healthy stand throughout. Some smaller red pine present that could
	Canopy Species		Size Class		Age		py Species	Density	Avg. Height	Size	be preserved for regeneration.
	Quaking Aspen	70	Pole	7	37		Pine	Low	10 - 20 feet	10 - 20 feet	
	Bigtooth Aspen	5	Pole/Log	9			am Fir	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	10	Pole/Sapling	6		White	Spruce	Low	5 - 10 feet	5 - 10 feet	
	White Spruce	5	Pole/Sapling	6							
	Red Pine	10	Pole	7							
58	6229 - Mixed	Lowland S	hrub	Nor	ie	4.6			No		Borders Mitchell Creek
59	4130	- Aspen	P	oletimb	er Well	28.6	47		N/A		Large rock outcrops scattered. Wet area in southern part of stand.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cand	py Species	Density	Avg. Height	Size	Consider for harvest next cycle.
	Red Maple	5	Pole	9		Balsa	am Fir	Low	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	55	Pole	7	47						-
	Bigtooth Aspen	25	Pole	7							
	Balsam Fir	5	Pole/Sapling	7							
	White Spruce	5	Pole/Sapling	6							
	Red Pine	5	Pole	9							
60	4130	- Aspen		Sapling	Well	59.3	9	Immature	N/A		Cut 2016 Comp 85 Contract TS. Good aspen regen. Some super
	Canopy Species	% Cover	Size Class	DBH	Age						canopy pine left. Buffer along Whiskey Creek was left.
	Quaking Aspen	100	Sapling	2	9						
61	4130	- Aspen		Sapling	Well	17.8	26	Immature	N/A		Harvested 1999. Mix of many different species in super canopy left
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano	py Species	Density	Avg. Height	Size	unharvested from last treatment. Aspen is very healthy. Super canopy is mixed with large red pine and some white pine residual.
	Red Maple	5	Pole	8			am Fir	Low	Variable	Variable	There are a few cedar on the northern edge as you get in to stand 3.
	Quaking Aspen	80	Sapling	4	26	Hazelnut	(Beaked)	Medium	5 - 10 feet	5 - 10 feet	
	Balsam Fir	5	Pole	5			,				
	White Spruce	5	Pole	7							
	Red Pine	5	Log	11							
62	6120 - Lo	wland Ceda	ır P	oletimb	er Well	7.6	98	111-140	N/A		Ash is mostly dead. Some tamarack present. Stand Drains east into
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cand	py Species	Density	Avg. Height	Size	stand 63.
	Black Spruce	5	Pole/Sapling	5	_	Blac	k Ash	Medium	< 5 feet	< 5 feet	
No	orthern White Cedar	85	Pole/Log	9	98						
	Tamarack	10		7							
63	4130	- Aspen	Р	oletimb	er Well	104.3	47		N/A		Rock ledges need to be considered for operability. Pine and some
	Canopy Species	% Cover	Size Class	DBH	Age						large spruce dominant canopy. Wet close to stand 62. Consider for harvest and if so, breaking up stand.
	Quaking Aspen	90	Pole	7	47						· · · · · · · · · · · · · · · · · · ·
	Balsam Fir	5	Pole/Sapling	6							
	White Spruce	5	Pole	7							



Stand	d Level 4 C	Level 4 Cover Type Size Density Acres		Stand Age	BA Range	Managed S	ite	General Comments			
64	6239 - Mixed E	mergent W	etland	Nor	ne	1.1			No		
65	4130	- Aspen		Sapling	ı Well	105.3 30			N/A		Dominant overstory red and white pine left. Areas of heavier spruce
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	and fir present. North and northwest edge of stand has some slope down to wetter areas. There was some that was not harvested from
	Quaking Aspen	90	Pole/Sapling	5	30	Bal	sam Fir	Low	5 - 10 feet	5 - 10 feet	before. Maple regen is coming up underneath the dying aspen in
	Balsam Fir	5	Pole/Sapling	5		Re	ed Pine	Trace	5 - 10 feet	5 - 10 feet	mentioned wetter area.
	White Spruce	5	Pole/Sapling	5		Wh	ite Pine	Trace	5 - 10 feet	5 - 10 feet	
						Whit	e Spruce	Low	5 - 10 feet	5 - 10 feet	
66	4130	- Aspen		Sapling	ı Well	36.9	8	Immature	N/A		Contract cut 2017. Some pine left in the dominant overstory. Wet area
	Canopy Species	% Cover	Size Class	DBH	Age						present on northwest part of stand.
	Quaking Aspen	100	Sapling	2	8						
67	42210 - Na	tural Red P	ine S	awtimb	er Well	5.4	71	111-140	N/A		Hilly area near ski trail parking. Consider for thinning as red pine is doing well.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	doing well.
	Quaking Aspen	10	Pole	9		Bal	sam Fir	Low	5 - 10 feet	5 - 10 feet	
	White Spruce	5	Pole/Sapling	7			ed Pine	Low	10 - 20 feet	10 - 20 feet	
	Red Pine	85	Log/Pole	10	71	Whit	e Spruce	Medium	5 - 10 feet	5 - 10 feet	
68			nifer Sa				m 13.0 67		N/A		Area includes ski trail parking lot. Scattered red maple, red pine, white pine, and balsam fir. Small swale putting up to stand 67. Budworm
	Canopy Species	% Cover	Size Class	DBH	Age						damage within the stand. Could be considered for cutting to restart
	Quaking Aspen	80	Pole/Log	9	67						stand.
	Balsam Fir	5	Pole/Sapling	6							
	White Spruce	5	Pole/Sapling	5							
	White Pine	5	Log/Pole	10							
	Red Pine	5	Log/Pole	10							
69	4130	- Aspen		Sapling	ı Well	16.2	15	Immature	N/A		Small rock outcroppings throughout. A couple inaccessible areas due to rock and water. Harvested 2010. Aspen coming up well, there are
	Canopy Species	% Cover	Size Class	DBH	Age						a few wet areas that did not fill in. super canopy red pine, white pine,
	Quaking Aspen	100	Sapling	4	15						red maple left.
70	320 - Up	land Shrub		Nor	ne	3.4			No		Some aspen crept into stand from stand 69. White spruce and white pine scattered throughout opening.
							nopy Species	Density	Avg. Height	Size	pino ocationou tinoughout oponing.
						Whit	e Spruce	Low	5 - 10 feet	5 - 10 feet	
71	4130	- Aspen		Sapling	ı Well	26.8	15	Immature	N/A		Many different species in supercanopy left unharvested from last reatment. Small rock outcroppings throughout. A couple inaccessible
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species		Avg. Height	Size	areas due to rock and water. Harvested 2010. Wet area running
	Red Maple	15	Pole/Sapling	6		Brac	ken Fern	Medium	Not Applicable	Not Applicable	through the middle. Some pine coming up in the understory.
	Quaking Aspen	70	Sapling	4	15						
	White Spruce	5	Pole/Sapling	5							
	White Pine	5	Pole	8							
	Red Pine	5	Pole	8							

Report 7 – Stands

Compartment: 79
Year of Entry: 2027

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Stand	d Level 4 C	over Type	;	Size Density		Acres	Stand Ag	e BA Range	Managed S	Site	General Comments
72	4130		Sapling Well		73.0 7	Immature	N/A	A	Part of Little Paw sale cut fall 2018. Red pine left in dominant overstory with more white pine left on eastern finger. Aspen coming		
	Canopy Species	% Cover	Size Class		Age						back well besides southeast part.
	Quaking Aspen	100	Sapling	2	7						
73	320 - Up	land Shrub		Nor	ne	1.8			No	)	Opening in stand 9. Could be included into stand 9 when harvested.
						Sub-Ca	anopy Spec	ies Density	Avg. Height	Size	
						W	hite Pine	Low	10 - 20 feet	10 - 20 feet	
						Ası	pen (spp.)	Low	10 - 20 feet	10 - 20 feet	
						Bra	icken Fern	High	Not Applicable	Not Applicable	
74	4191 - Mixed Upl	and Decidu	ous with Pol	letimbei	Mediur	n 19.4	88	51-80	N/A	4	On top of hill. Steep area. Accessible from the south, but it is still wet. Species evenly distributed throughout. Could be considered for
	Canopy Species	% Cover	Size Class	DBH	Age						thinning to prompt some regeneration, as regen is sparse in areas.
	Red Maple	15	Pole/Log	9							
	Paper Birch	20	Pole/Log	9							
	Quaking Aspen	10	Pole	7							
	Bigtooth Aspen	25	Pole/Log	8							
	Red Pine	30	Log/Pole	10	88						
75	6128 - Lowland Dec	Coniferous,	Mixed P	oletimb	er Well	6.8	85	111-140	N/A	A	Cedar and tag alder corridor. Some red pine creeping in. Standing dead black ash.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Spec	ies Density	Avg. Height	Size	
	Paper Birch	15	Pole/Log	9		T	ag Alder	High	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	5	Pole	6		В	lack Ash	Medium	< 5 feet	< 5 feet	
	Balsam Fir	10	Pole/Sapling	6							-
	White Spruce	15	Pole/Sapling	6							
No	rthern White Cedar	45	Pole	8	85						
	Red Pine	10	Pole	8							
76	429 - Mixed I	Upland Con	ifers S	awtimb	er Well	47.1	111	111-140	N/A	4	Dominant red pine and some white pine in the overstory. Very similar
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Spec	ies Density	Avg. Height	Size	to neighboring stand 77 in terms of other species present. Aspen holding up well.
	Red Oak	10	Log/Pole	11	111	Ва	alsam Fir	Low	< 5 feet	< 5 feet	
	Paper Birch	5	Log/Pole	10		Qua	king Aspen	Low	< 5 feet	< 5 feet	
	Quaking Aspen	20	Pole	8	47						-
	White Spruce	15	Pole	9							
	White Pine	5	Log/Pole	12							
	Red Pine	45	Log/Pole	10	111						



Stand	d Level 4 C	over Type	;	Size De	nsity	Acres Stand Age B	A Range	Managed S	iite	General Comments
77	4130	- Aspen	S	awtimb	er Well	23.1 47		N/A	<b>\</b>	A few scattered oak. North side follows slope down to wetter area.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Aspen holding up well.
	Red Maple	10	Pole	7		Balsam Fir	Low	< 5 feet	< 5 feet	
	Paper Birch	5	Pole	7		White Spruce	Low	< 5 feet	< 5 feet	
	Quaking Aspen	50	Pole	8	47					
	Bigtooth Aspen	20	Log/Pole	10	47					
	Red Pine	15	XLog	18						
79	6220 - A	lder/Willow		Nor	ne	16.0		No	1	Whiskey creek and tag alder
81	6124 - Lowl	and Spruce	-Fir P	oletimb	er Well	21.9 111		N/A	۸	Whiskey Creek runs on east side of stand. Stand has a little bit of
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Canopy Species	Density	Avg. Height	Size	blow over from bud worm damage. Held for buffer. Some larger standing dead aspen.
	Paper Birch	20	Pole/Log	9	111	Tag Alder	Low	5 - 10 feet	5 - 10 feet	otaliang adda dopoli.
	Balsam Poplar	20	Log/Pole	10		Balsam Fir	Low	Variable	Variable	
	Balsam Fir	25	Pole	7		White Spruce	Low	Variable	Variable	
	White Spruce	35	Log/Pole	10	111					_
84	6132 - Mixed Lowla			oletimb			81-110	N/A		Chunks of dead standing ash, some paper birch coming up within ash.  On edges there are species mentioned. Could hold for wildlife
	Canopy Species		Size Class		Age	Sub-Canopy Species	Density	Avg. Height	Size	considerations (thermal cover, winter food source) and water quality.
	Red Maple	10	Pole/Sapling	5		Black Ash	Low	5 - 10 feet	5 - 10 feet	
	Paper Birch	25	Pole	7		Balsam Fir	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	10	Pole	7						
	Balsam Fir	5	Pole/Sapling	5						
	Black Spruce	5	Pole/Sapling	5						
No	orthern White Cedar	35	Pole	8	61					
	Tamarack	5	Pole	7						
	Black Ash	5	Pole/Sapling	7						