

# **Compartment Review Presentation**

**Crystal Falls Forest Management Unit** 

Compartment 12153 Entry Year: 2027 Acreage: 743 County: Iron Management Area: Brule River

## Stand Examiner: Eric Brolin

## Legal Description:

T43N-R31W section 31. T43N-R32W section 36.

## **Identified Planning Goals:**

Develop age class distribution in aspen type. Maintain health in conifer types and increase acres where possible. Maintain and improve road system.

#### Soil and topography:

Karlin sands on flat to rolling hills with some lowland swamps and drainages.

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

State lands mixed with a few small private parcels. Two year round homes on US- 2 Lake Mary Road intersection. Lands used mainly for hunting and fishing and managed for timber products.

## **Unique Natural Features:**

Glidden Lake is on the south side of the compartment and the Michigamme River is just east of the compartment.

## Archeological, Historical, and Cultural Features:

None.

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

None.

#### Watershed and Fisheries Considerations:

Glidden Lake is on the south side of the compartment. The fish community consists of bluegill, largemouth bass, yellow perch, and walleye. 100 foot buffer around any waterbody. There is also an unnamed tributary running through the compartment. 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 falls within the Panola Plains Management area. Featured species selected for this management area include American woodcock, black bear, eastern bluebird, Kirtland's warbler, ruffed grouse and white-tailed deer. This compartment is part of the Old Mansfield Deeryard. Lowland cedar and spruce stands provide a travel corridor from the northwest corner of the compartment through to its east central side. This travel corridor is heavily used by black bear and also used as winter cover by deer. Soft mast such as blueberries and cherry, as well as, hard mast producing oak trees, are essential habitat components for bear, deer and grouse. Aspen stands with adequate conifer cover and maximum age class diversity provide excellent habitat for deer, grouse, woodcock and bear.

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

Surface sediments consist of thin to discontinuous glacial outwash sand and gravel and post-glacial alluvium. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Hemlock Formation subcrops below the glacial drift. There is not a current economic use for the Hemlock. The Amasa iron formation is known to occur just to the west and the Hemlock volcanics iron formation has been mapped just to the east of the compartment. Abandoned iron mines are located one mile to the northwest. Part of this compartment was previously leased for metallic exploration. The nearest gravel pit is located several miles away and potential appears to be limited. There is no economic oil and gas production in the UP.

## Vehicle Access:

M-69, Lake Mary Road and associated woods roads.

#### **Survey Needs:**

None.

## **Recreational Facilities and Opportunities:**

Lake Mary Ski Trail is in the SE portion of the compartment. Glidden Lake Campground is located just south of the compartment.

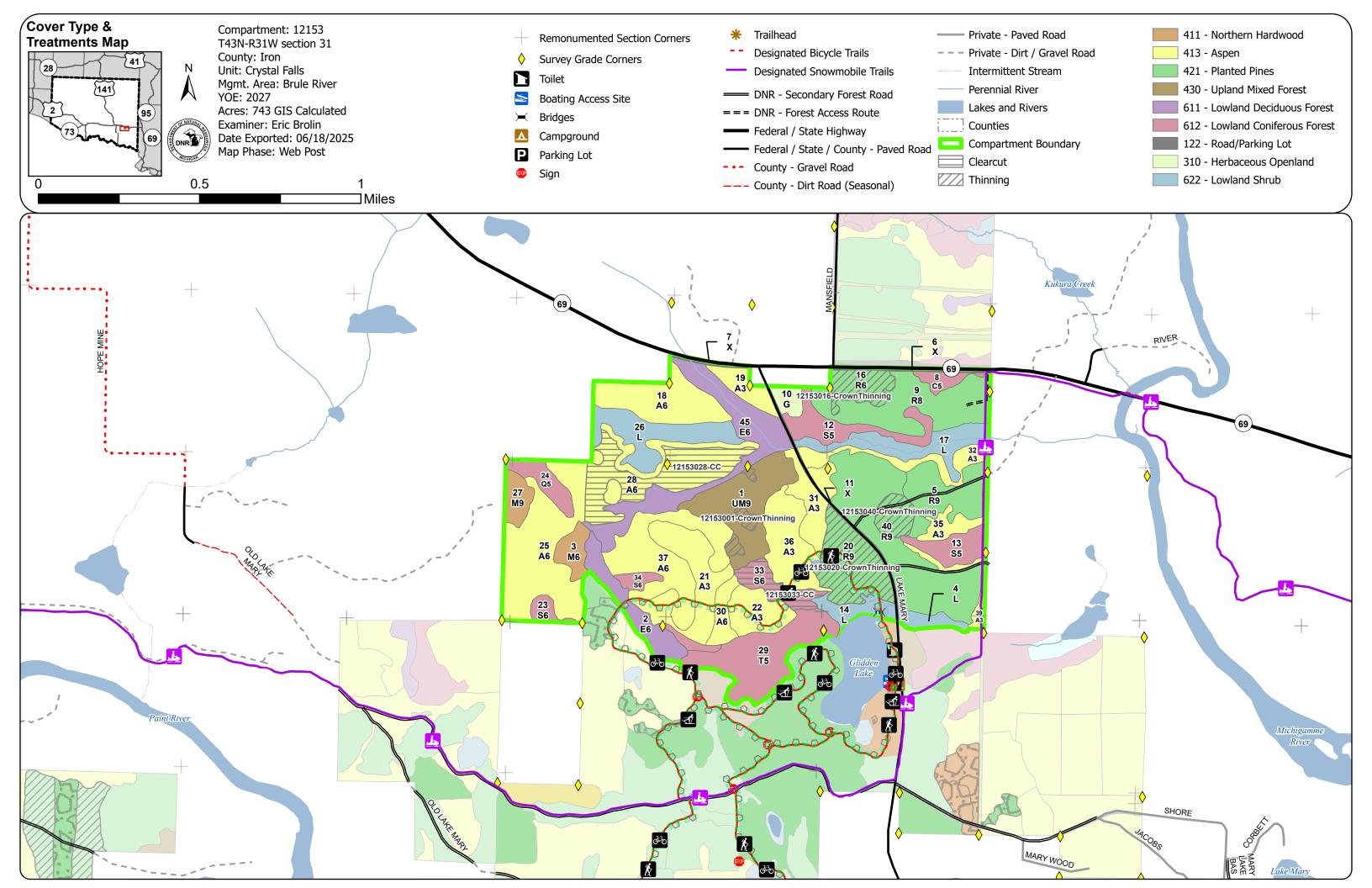
## Fire Protection:

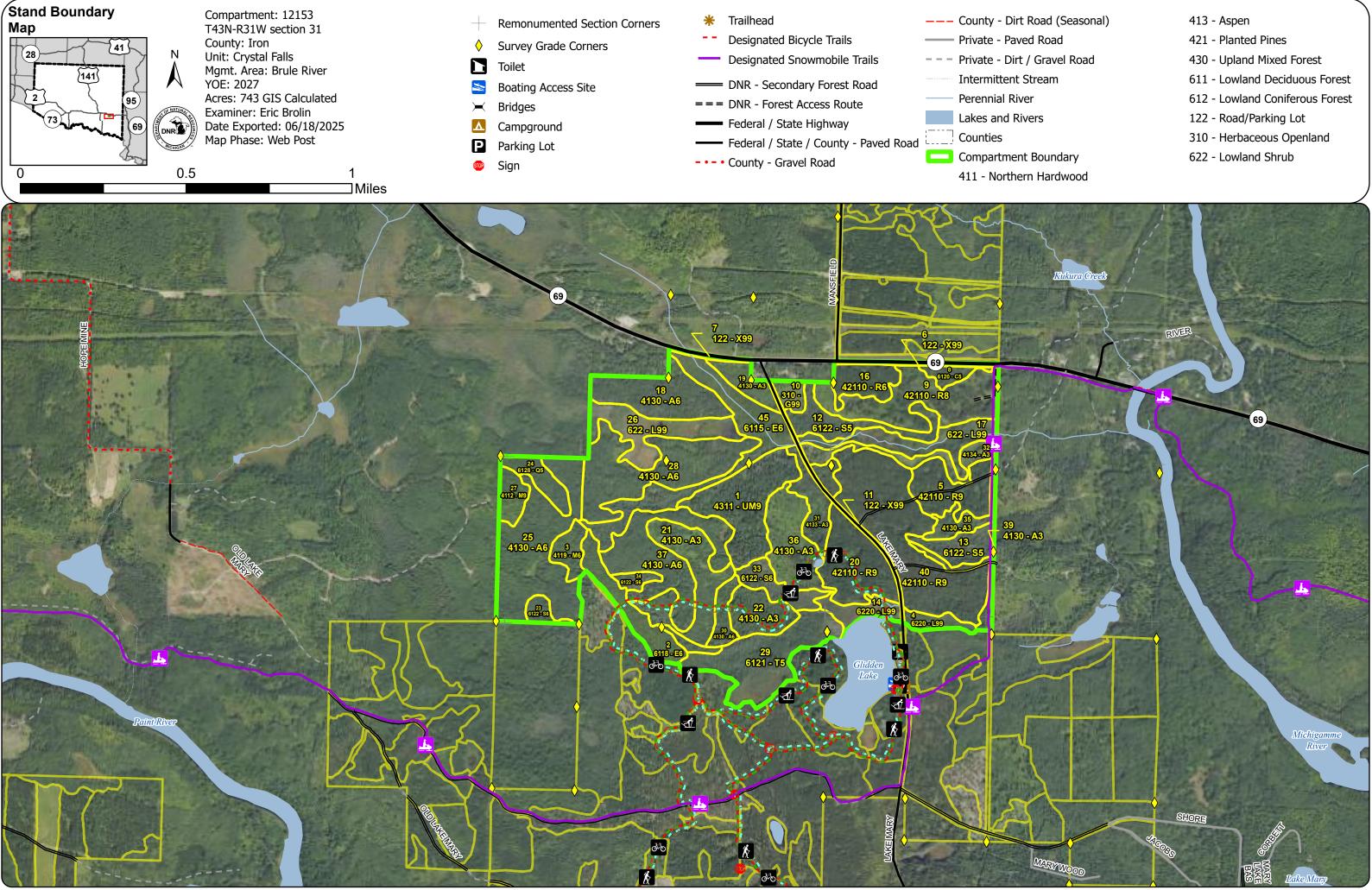
## **Additional Compartment Information:**

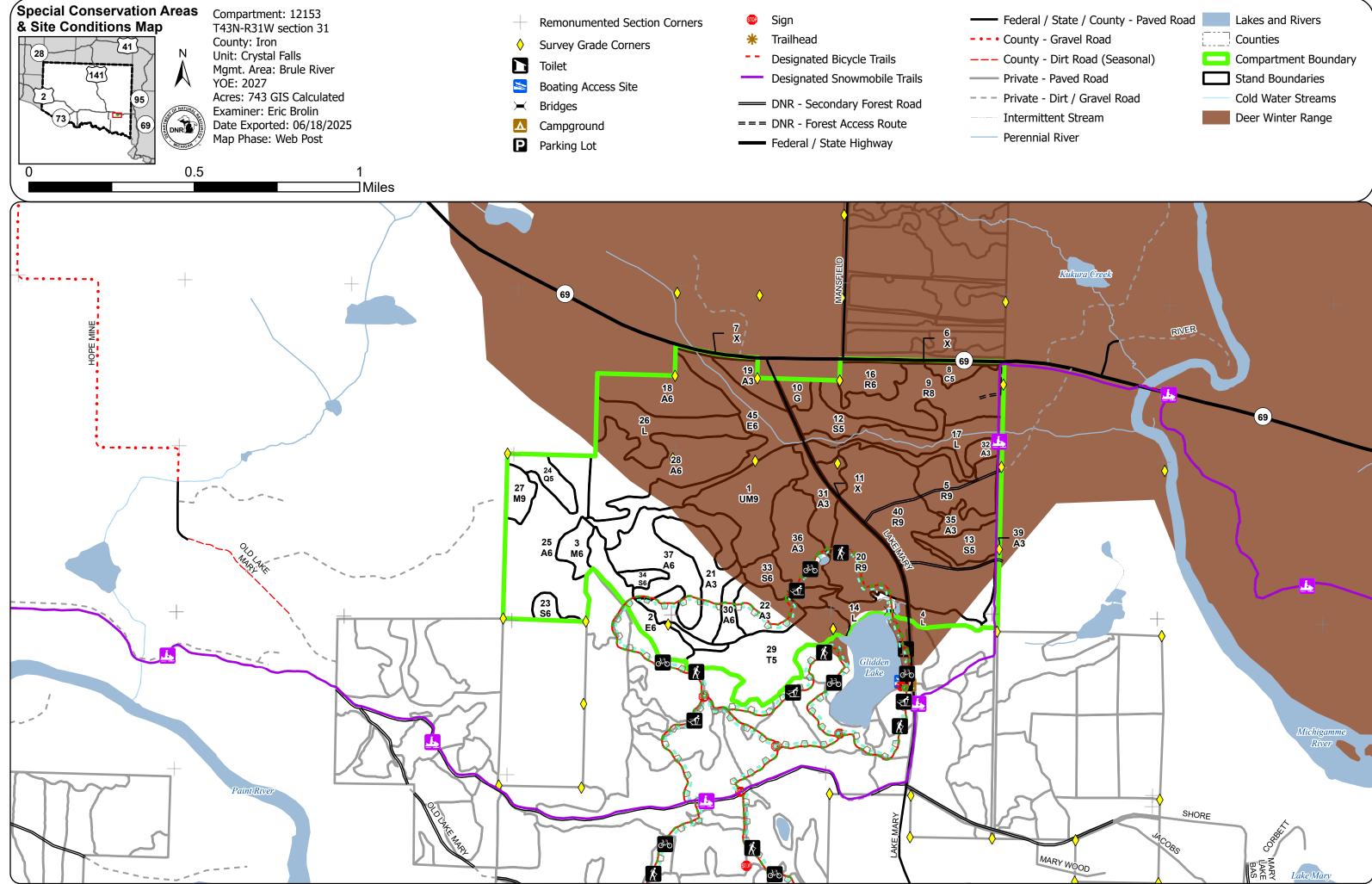
None.

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

Crystal Falls Mgt. Unit

Eric Brolin: Examiner

Compartment 153 Year of Entry 2027



Age Class

	NO	KON C	83 × 5			3	A IN	3		\$ \$ \$	8 89 6	8 J.B.	<sup>7</sup> /a <sup>7</sup> .	8. 	82 - 53	63 5 5	No. St.	yr Joe	100 LOO
Aspen	0	46	52	21	99	0	76	0	0	0	0	0	0	0	0	0	0	0	294
Cedar	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Lowland Deciduous	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0	0	55
Lowland Shrub	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	49
Northern Hardwood	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Red Pine	0	0	0	0	0	0	0	167	0	0	0	0	0	0	0	0	0	0	167
Tamarack	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	38
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	36
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	75	46	52	21	99	0	76	167	0	166	36	5	0	0	0	0	0	0	743

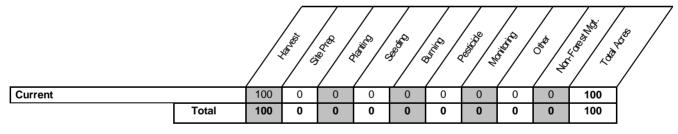


· MICHIGAN	Crystal Falls Mgt. Unit		Compartment 153	
CHIGH	Year of Entry: 2027	Acres of Harvest	Total Compartment Acres: 743	
		Commercial Harvest - 98		
		Harvests with Site Condition - 0		
		Next Step Harvest - 0		
		Habitat Cut - 0		

## Cover Type by Harvest Method

			Concert Concerts	Colorino Colorino	to of	Contraction of the second	North Contraction of the second	in Cross	Reputer State	See 10	Stor Loo	S. S
Aspen		35	0	0	0	0	0	0	0	0	35	
Lowland Spruce/Fir		11	0	0	0	0	0	0	0	0	11	
Red Pine		0	0	0	0	0	49	0	0	0	49	
Upland Mixed Forest		0	0	0	0	0	4	0	0	0	4	
	Total	46	0	0	0	0	54	0	0	0	100	

## Proposed and Next Step Treatments by Method



t a									Year of Entry	. 2021	VAJA . MIC
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Ha
	ed Treatm										
40	12153040 CrownThin g		2110 - Planted Red Pine	9	69	81-110	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	
Preso Spec			erage 120 BA. Focus white pine while ma					sed trees. Remove	e all merchantable a	aspen and har	dwood
<u>Next</u> Treat	<u>Step</u> tments:										
<u>Acce</u> Rege	ptable_ en:										
			in treatment. Old Go observed within this							contained a ne	est. No
Propo	osed Start D	ate: 10/01/20	026								
33	12153033-0	<b>CC</b> 10.7 6	6122 - Black Spruce	6	85	81-110	Harvest	Clearcut	6122 - Black Spruce	Planting Record	
	ptable Any	combination	of the current oversto	ory specie	S.						
Acce Rege Other Comr	<u>ptable</u> Any en: <u>r</u> SE	stand line is a	of the current oversto n estimate, scout and . Contact Joe Freibe	d determir	ne during					ound. Winter	harves
Acce Rege Other Comr Site C	<u>ptable</u> Any <u>en:</u> <u>r</u> SE <u>ment:</u> dee Condition:	stand line is a	n estimate, scout an . Contact Joe Freibe	d determir	ne during					round. Winter	harves
Acce Rege Other Comr Site ( Propo 28	ptable Any en: <u>r</u> SE <u>ment:</u> dee <u>Condition:</u> osed Start D 12153028-0	stand line is a r winter range ate: 10/01/20 CC 35.2	n estimate, scout and . Contact Joe Freibe 026 4130 - Aspen	d determir rg (PRD)	ne during to close	the trail to 111- 140	the public during	g active timber sal	e operations. 413 - Aspen	Planting Record	
Acce Rege Other Comr Site C Propo 28 Preso Spec	ptable Any an: r SE ment: dee Condition: osed Start D 12153028-0 cription Har s: of s	stand line is a r winter range <u>ate:</u> 10/01/20 <b>CC</b> 35.2 vest all merch	n estimate, scout an . Contact Joe Freibe 026	d determir org (PRD) 6 note aspe	ne during to close 52	the trail to 111- 140 eration. Re	the public during Harvest etention should ir	g active timber sal Clearcut nclude large diame	e operations. 413 - Aspen	Planting Record	
Acce Rege Other Comr Site C Propo 28 Presc Spec: Next	ptable Any an: r SE ment: dee Condition: osed Start D 12153028-0 cription Har s: of s	stand line is a r winter range <u>ate:</u> 10/01/20 <b>CC</b> 35.2 vest all merch	n estimate, scout and . Contact Joe Freibe 026 4130 - Aspen antable trees to pror	d determir org (PRD) 6 note aspe	ne during to close 52	the trail to 111- 140 eration. Re	the public during Harvest etention should ir	g active timber sal Clearcut nclude large diame	e operations. 413 - Aspen	Planting Record	
Acce Rege Other Comr Site C Propo 28 Presc Spec: Next Treat	ptable Any an: r SE ment: dee Condition: osed Start D 12153028-0 cription Har s: of s Step tments: ptable Any	stand line is a r winter range ate: 10/01/20 CC 35.2 vest all merch pecies. Leave	n estimate, scout and . Contact Joe Freibe 026 4130 - Aspen antable trees to pror	d determir rg (PRD) 6 note aspe Only cut s	ne during to close 52 n regene pruce/fir	the trail to 111- 140 eration. Re	the public during Harvest etention should ir	g active timber sal Clearcut nclude large diame	e operations. 413 - Aspen	Planting Record	
Acce Rege Other Com Site C Propo 28 Presc Spec Next Treat Acce Rege Other	ptable Any Any Any Any Any Any Any Any	stand line is an r winter range ate: 10/01/20 CC 35.2 vest all merch pecies. Leave combination of ess from SW	n estimate, scout and . Contact Joe Freibe 026 4130 - Aspen antable trees to pror all conifer and oak.	d determir rg (PRD) 6 note aspe Only cut s pry specie	52 52 n regent pruce/fir s.	111- 140 eration. Re unless ne	Harvest Harvest etention should ir eeded for operab	g active timber sal Clearcut nclude large diame ility.	e operations. 413 - Aspen	Planting Record aspen, and a c	liverse
Acce Rege Other Comr Site C Propo 28 Presc Spec Next Treat Acce Rege Other Comr Site C	ptable Any Any Any Any Any Any Any Any	stand line is an r winter range ate: 10/01/20 CC 35.2 vest all merch pecies. Leave combination of ess from SW der, treatment	n estimate, scout and Contact Joe Freibe 226 4130 - Aspen antable trees to pror all conifer and oak. of the current oversto or SE corner will req is updated to show a	d determir rg (PRD) 6 note aspe Only cut s pry specie	52 52 n regent pruce/fir s.	111- 140 eration. Re unless ne	Harvest Harvest etention should ir eeded for operab	g active timber sal Clearcut nclude large diame ility.	e operations. 413 - Aspen	Planting Record aspen, and a c	liverse
Acce Rege Other Comr Site C Propo 28 Presc Spec Next Treat Acce Rege Other Comr Site C	ptable Any Any Any Any Any Any Any Any	stand line is an r winter range ate: 10/01/20 CC 35.2 vest all merch pecies. Leave combination of ess from SW	n estimate, scout and Contact Joe Freibe 226 4130 - Aspen antable trees to pror all conifer and oak. of the current oversto or SE corner will req is updated to show a	d determir rg (PRD) 6 note aspe Only cut s pry specie	52 52 n regent pruce/fir s.	111- 140 eration. Re unless ne	Harvest Harvest etention should ir eeded for operab	g active timber sal Clearcut nclude large diame ility.	e operations. 413 - Aspen	Planting Record aspen, and a c	liverse
Acce Rege Other Comr Site C Propo 28 Presc Spec Next Treat Acce Rege Other Comr Site C	ptable Any Any Any Any Any Any Any Any	stand line is an r winter range ate: 10/01/20 CC 35.2 vest all merch pecies. Leave combination of ess from SW der, treatment	n estimate, scout and Contact Joe Freibe 226 4130 - Aspen antable trees to pror all conifer and oak. of the current oversto or SE corner will req is updated to show a	d determir rg (PRD) 6 note aspe Only cut s pry specie	52 52 n regent pruce/fir s.	111- 140 eration. Re unless ne	Harvest Harvest etention should ir eeded for operab	g active timber sal Clearcut nclude large diame ility.	e operations. 413 - Aspen	Planting Record aspen, and a c	liverse
Acce Rege Other Comr Site C Propo 28 Presc Spec Next Treat Acce Rege Other Comr Site C	ptable Any Any Any Any Any Any Any Any	stand line is an r winter range ate: 10/01/20 CC 35.2 vest all merch pecies. Leave combination of ess from SW der, treatment	n estimate, scout and Contact Joe Freibe 226 4130 - Aspen antable trees to pror all conifer and oak. of the current oversto or SE corner will req is updated to show a	d determir rg (PRD) 6 note aspe Only cut s pry specie	52 52 n regent pruce/fir s.	111- 140 eration. Re unless ne	Harvest Harvest etention should ir eeded for operab	g active timber sal Clearcut nclude large diame ility.	e operations. 413 - Aspen	Planting Record aspen, and a c	liverse
Acce Rege Other Comr Site C Propo 28 Presc Spec Next Treat Acce Rege Other Comr Site C	ptable Any Any Any Any Any Any Any Any	stand line is an r winter range ate: 10/01/20 CC 35.2 vest all merch pecies. Leave combination of ess from SW der, treatment	n estimate, scout and Contact Joe Freibe 226 4130 - Aspen antable trees to pror all conifer and oak. of the current oversto or SE corner will req is updated to show a	d determir rg (PRD) 6 note aspe Only cut s pry specie	52 52 n regent pruce/fir s.	111- 140 eration. Re unless ne	Harvest Harvest etention should ir eeded for operab	g active timber sal Clearcut nclude large diame ility.	e operations. 413 - Aspen	Planting Record aspen, and a c	liverse

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#### **Report 3 -- Treatments**

Compartment: 153 Year of Entry: 2027



S t	0.9	Starr and .			Кероі	15	reatments		Year of Entr		DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
20	12153020- CrownThinnin g	28.3 421	10 - Planted Red Pine	9	69	141- 170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
Pres Spe	scription Mark sta		ge 120 BA. Focus nite pine while ma					sed trees. Remove	all merchantable a	aspen and hai	dwood.
Nex	t Step atments:		·	J		·					
<u>Acc</u> Reg	eptable_ len:										
<u>Othe</u> Con	er Winter h	arvest for de	eer winter range. (	Contact Jo	e Freibe	erg (PRD)	to close the trail	to the public durin	g active timber sal	e operations.	
<u>Site</u>	Condition:										
	bosed Start Date:			-		474	Llanuart	Thinging	1011 Dianta d	Dianting	Na
16	12153016- CrownThinnin g	12.4 421	10 - Planted Red Pine	6	69	171- 200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Acc</u> <u>Reg</u> Othe		arvest for de	eer winter range.								
<u>Site</u>	Condition:										
<u>Prop</u>	bosed Start Date:	10/01/2026	3								
1	12153001- CrownThinnin g	4.4 431	I1 - Pine, Aspen Mix	9	95	81-110	Harvest	Thinning	4311 - Pine, Aspen Mix	Cutting Record	No
<u>Pres</u> Spe	scription Mark sta	mprove futu	ge 60 - 80 BA of n re health, diversity rvest, and leave a	, and wild	life bene	on creatin efits within	g more diversity, these currently o	, removing suppres dense patches. Re	ssed trees, and lea move all merchant	ving larger, vi able trees, lea	gorous pine aving pine
	<u>t Step</u> atments:			·							
<u>Acc</u> Reg	<u>eptable</u> Any com <u>len:</u>	bination of t	he current oversto	ory species	6.						
<u>Othe</u> Con	<u>er</u> Winter h nment:	arvest for de	eer winter range.								
	Condition:										
Prop	bosed Start Date:	10/01/2026	6								

Total Treatment 99.5 Acreage Proposed:

Compartment: 153 Year of Entry: 2027



## Eric Brolin: Examiner

Availability	for	Management
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Total	Acres	Acres Avail	Acres		Domina	nt Site	e Con	ditions
Acres	Available	With Condition	Not Available		5C	2G	3H	3J
259	218	23	17	Aspen	23			17
5	0	0	5	Cedar			5	
5	5	0	0	Herbaceous Openland				
9	9	0	0	Lowland Conifers				
55	17	0	38	Lowland Deciduous		38		
60	60	0	0	Lowland Shrub				
49	15	6	28	Lowland Spruce/Fir	6	12		17
15	15	0	0	Northern Hardwood				
168	168	0	0	Red Pine				
38	0	0	38	Tamarack		38		
36	36	0	0	Upland Mixed Forest				
10	10	0	0	Urban				
707	552	30	126	Total Forested Acres	30	87	5	34
-	78%	4%	18%	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.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	17	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
-	<b>Comments:</b> 100' stream buffer a	nd/or too wet, flooded tamara	ack flats.				
2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments:						

	-	l Falls Mgt. Unit Brolin: Examiner		Report 4 – Site Condi	tions	Compartment: 153 Year of Entry: 2027	ATCHICAL
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Extend rotation due	e to proposed harvest adjacent	the sou	uth. Create more age class div	ersity in the area.		
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> 100' buffer along o	pen lowland area. Long term re	etention	for Stand 18.			
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
	Comments: Flooded alder drair	nage with dead black ash poles	s and bl	ack ash saplings in the north.	The south may have r	nanageable edges with adjacen	t stands, otherwis
	too wet.	5			The could may have t	nanageable eages with adjacen	it stands, otherwis
6	too wet. Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
6	Unavailable Comments:	2G: Too wet (sensitive soils, does not include	12	5A: Not able to obtain desirable regeneration			
,	Unavailable Comments:	2G: Too wet (sensitive soils, does not include access issues)	12	5A: Not able to obtain desirable regeneration			

5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
mature black spruce and is ma	nageable	Access is limited until	adjacent stands are mana(	ged in the future given the sma	II size of these
3H: Deer Wintering Area - habitat is incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
r	exceptional site quality mature black spruce and is ma 3H: Deer Wintering Area - habitat is incompatible	exceptional site quality mature black spruce and is manageable 3H: Deer Wintering Area - 5 habitat is incompatible	exceptional site quality mature black spruce and is manageable. Access is limited until a 3H: Deer Wintering Area - 5 Unspecified habitat is incompatible	exceptional site quality mature black spruce and is manageable. Access is limited until adjacent stands are manag 3H: Deer Wintering Area - 5 Unspecified Unspecified habitat is incompatible	exceptional site quality         mature black spruce and is manageable. Access is limited until adjacent stands are managed in the future given the smale         3H: Deer Wintering Area - 5       Unspecified       Unspecified         habitat is incompatible

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

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

SCA Name SCA Category Detail Type Recommendation Acres

Comments

## Report 7 – Stands

tan	nd Level 4 Cover Type Size		Size De	nsity	Acres Stand Age	BA Range	Managed S	ite	General Comments				
	4311 - Pine		lix	Sapling	•	35.6 95	81-110	N/A		Some small patches are dense to larger red pine log trees. Any			
1			Size Class		Age	Sub-Canopy Species		Avg. Height	Size	$_{ m eq}$ openings in the conifer canopy contain aspen. The aspen ranges from			
	Canopy Species Quaking Aspen	40	Pole	3	26	Quaking Aspen	Medium	>20 feet	>20 feet	suppressed saplings to small pole size trees in the more open canopy			
	Northern Pin Oak	2	T DIE	9	20	Northern Pin Oak	Low	Variable	Variable				
	Red Pine	47		16	95	Red Pine	Low	Variable	Variable	-			
	White Pine	3		15	00	Red Maple	High	Variable	Variable				
	Red Maple	5	Seedling	7		Balsam Fir	Low	Variable	Variable	-			
	Paper Birch	3	Sapling	6		Baldannin	2011	Valiable	Vanabio				
2	6118 - Lowland De			Poletimb	er Well	17.1 85	81-110	N/A		Flooded black ash swale. Dense sapling understory with scattered ced			
2	Canopy Species		Size Class		Age	Sub-Canopy Species		Avg. Height	Size				
	Paper Birch	1	Seedling	8	Лус	Black Ash	Medium	Variable	Variable				
	Tamarack	2	Seedling	8		Black Spruce	Low	Variable	Variable				
	Black Ash	60	Sapling	7	85	Balsam Fir	Medium	Variable	Variable				
	Balsam Poplar	2	eapinig	14		Red Maple	Medium	Variable	Variable				
	Black Spruce	5	Seedling	8	85	Tag Alder	Low	5 - 10 feet	5 - 10 feet				
N	orthern White Cedar	30	eesamig	7	85	1 49 / 1401	2011	0 101000	0 101000				
3	4119 - Mixed No	orthern Har	dwoods	Sapling		7.7 86	81-110	N/A		Good quality red maple just below or at log sized trees. Aspen poles			
•	Canopy Species	% Cover	Size Class		Age	Sub-Canopy Species	s Density	Avg. Height	Size	filling in holes and scattered conifer within.			
	Red Maple	70		9	86	Quaking Aspen	Low	>20 feet	>20 feet				
	White Pine	7		12		White Pine	Medium	Variable	Variable	-			
	Northern Pin Oak	1		8		Balsam Fir	Medium	Variable	Variable	-			
	Red Oak	2		16		White Spruce	Low	Variable	Variable				
	White Spruce	3	Sapling	7		Red Pine	Trace	Variable	Variable	-			
	Quaking Aspen	15	Sapling	6	30					-			
	Balsam Fir	2	Sapling	5	30								
4	6220 - Al	lder/Willow	1	Unspe	cifed	5.5		No		Flooded lowland area. Dense alder with some dead flooded tamarack saplings in the west half.			
5	42110 - Plar	nted Red P	Pine	Sawtimb	er Well	20.8 69	81-110	N/A		Thinned in 2019, thinned red pine and removed all merchantable trees			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	s Density	Avg. Height	Size	Red pine stand, small sawlog to pole sized trees. Aspen and hardwoo cut out last entry created a dense understory of aspen saplings with			
	White Pine	1		15		Northern Pin Oak	Low	Variable	Variable	some mixed hardwood. Lighter pine canopy in areas will allow a lot of			
	Northern Pin Oak	1	Seedling	8		Quaking Aspen	High	Variable	Variable	saplings to succeed.			
	Red Pine	98		11	69	Balsam Fir	Trace	Variable	Variable				
					·	Red Maple	Medium	Variable	Variable				
										-			
						Black Cherry	Low	Variable	Variable				

	Crysta	l Falls Mgt. U	Jnit				Rep	ort 7 – Sta	inds		Compartment: 153 Year of Entry: 2027
Stan	d Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
7	122 - Road	/Parking Lot		Sapling	y Well	1.7			No		Highway
8	6120 - Lov	vland Cedar		Poletimb	er Well	4.7	105	51-80	N/A		
	Canopy Species	% Cover S	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Black Spruce	15	Seedling	8	105	Blac	k Spruce	Low	5 - 10 feet	5 - 10 feet	
N	lorthern White Cedar	70		8	105	Та	g Alder	Medium	5 - 10 feet	5 - 10 feet	
	Tamarack	15		8	105						_
9	42110 - Plar	nted Red Pine	. :	Sawtimb	er Well	39.3	69	81-110	N/A		Patchy areas of red pine grown dense enough to be managed in the
	Canopy Species	% Cover S	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	future. A lot of area has regenerated to dense aspen saplings with oper
	Red Pine	100		12	69		d Pine	Low	Variable	Variable	canopy. Future management of scattered pine patches may be tricky in the future to avoid damage to regen.
						Quaki	ing Aspen	High	Variable	Variable	
						Bal	sam Fir	Low	Variable	Variable	-
10	310 - Herbaco	eous Openlan	d	Unspe	cifed	4.8			No		Opening growing in with cherry interior and more conifer along the edges. In the future, possibly maintain as an opening or harvest and plant to pine once current trees become more merchantable.
11	122 - Road	/Parking Lot		Sapling	) Well	4.9			No		Lake Mary Road
12	6122 - Bla	ack Spruce	D								
. –		•	P	oletimber	Medium	16.8	80		N/A	L.	Very sparse, mature black spruce. Ground is quite saturated with a
	Canopy Species	•	Bize Class		r Medium I <b>Age</b>		80 Nopy Species	Density	N/A Avg. Height	Size	Very sparse, mature black spruce. Ground is quite saturated with a dense alder/conifer sapling understory.
		<b>% Cover S</b>	Size Class	<b>DBH</b> 8	I Age	Sub-Car	<b>hopy Species</b> Alder	Density Medium			
	Canopy Species Balsam Fir Tamarack	% Cover         S           10         10           10         10	Size Class Seedling Seedling	<b>DBH</b> 8 8	80	Sub-Car	Alder k Spruce		<b>Avg. Height</b> 5 - 10 feet 5 - 10 feet	<b>Size</b> 5 - 10 feet 5 - 10 feet	
	Canopy Species Balsam Fir Tamarack Black Spruce	% Cover         S           10         10           10         70	Size Class	<b>DBH</b> 8 8 8	80 80	Sub-Car	<b>hopy Species</b> Alder	Medium	Avg. Height 5 - 10 feet	<b>Size</b> 5 - 10 feet	
	Canopy Species Balsam Fir Tamarack	% Cover         S           10         10           10         10	Size Class Seedling Seedling	<b>DBH</b> 8 8	80	Sub-Car	Alder k Spruce	Medium Low	<b>Avg. Height</b> 5 - 10 feet 5 - 10 feet	<b>Size</b> 5 - 10 feet 5 - 10 feet	
	Canopy Species Balsam Fir Tamarack Black Spruce Iorthern White Cedar	% Cover         S           10         10           10         70	Size Class Seedling Seedling Seedling	<b>DBH</b> 8 8 8	Age           80           80           80	Sub-Car	Alder k Spruce	Medium Low	<b>Avg. Height</b> 5 - 10 feet 5 - 10 feet	<b>Size</b> 5 - 10 feet 5 - 10 feet 5 - 10 feet	dense alder/conifer sapling understory.
N	Canopy Species Balsam Fir Tamarack Black Spruce Iorthern White Cedar	% Cover         S           10         10           70         10           10         10	Size Class Seedling Seedling Seedling	DBH           8           8           10	Age           80           80           80	Sub-Car A Black Bal 11.6	Alder Alder k Spruce sam Fir	Medium Low Low	<b>Avg. Height</b> 5 - 10 feet 5 - 10 feet 5 - 10 feet	<b>Size</b> 5 - 10 feet 5 - 10 feet 5 - 10 feet	dense alder/conifer sapling understory.
N	Canopy Species Balsam Fir Tamarack Black Spruce lorthern White Cedar 6122 - Bla	% Cover         S           10         10           10         10           70         10           ack Spruce         10	Size Class Seedling Seedling Seedling	DBH           8           8           10	Age           80           80           80           80           80	Sub-Car A Black Bal Bal 11.6 Sub-Car	Alder Alder k Spruce sam Fir 85	Medium Low Low	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A	<b>Size</b> 5 - 10 feet 5 - 10 feet 5 - 10 feet	dense alder/conifer sapling understory.
N	Canopy Species Balsam Fir Tamarack Black Spruce lorthern White Cedar 6122 - Bla Canopy Species	% Cover         S           10         10           10         10           70         10           ack Spruce         % Cover         S	Size Class Seedling Seedling Seedling	DBH 8 8 10 Poletimbo	Age           80           80           80           80           80	Sub-Car A Blact Bal 11.6 Sub-Car Tag	Alder Alder k Spruce sam Fir 85 nopy Species	Medium Low Low 1-50 Density	Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet N/A Avg. Height	Size 5 - 10 feet 5 - 10 feet 5 - 10 feet Size	dense alder/conifer sapling understory.
N	Canopy Species Balsam Fir Tamarack Black Spruce lorthern White Cedar 6122 - Bla Canopy Species Black Ash	% Cover         S           10         10           10         10           70         10           ack Spruce         % Cover         S           15         15	Size Class Seedling Seedling Seedling	DBH           8           8           10   Poletimber DBH	Age           80           80           80           80           80           80	Sub-Car A Blact Bal 11.6 Sub-Car Tag	Alder Alder k Spruce sam Fir 85 hopy Species g Alder	Medium Low Low 1-50 Density Medium	Avg. Height           5 - 10 feet           5 - 10 feet           5 - 10 feet           N/A           Avg. Height           5 - 10 feet	Size 5 - 10 feet 5 - 10 feet 5 - 10 feet Size 5 - 10 feet	dense alder/conifer sapling understory.
N	Canopy Species Balsam Fir Tamarack Black Spruce lorthern White Cedar 6122 - Bla Canopy Species Black Ash Tamarack Black Spruce	% Cover         S           10         10           70         10           10         4           70         10           ack Spruce         6           15         30	Size Class Seedling Seedling Seedling Size Class Sapling Seedling	DBH           8           8           10           Poletimbe           7           8	Age           80           80           80           80           er Poor           Age           85           85	Sub-Car A Blact Bal 11.6 Sub-Car Tag	Alder Alder k Spruce sam Fir 85 hopy Species g Alder k Spruce	Medium Low Low 1-50 Density Medium	Avg. Height           5 - 10 feet           5 - 10 feet           5 - 10 feet           N/A           Avg. Height           5 - 10 feet	Size 5 - 10 feet 5 - 10 feet 5 - 10 feet Size 5 - 10 feet Variable	dense alder/conifer sapling understory.
13	Canopy Species Balsam Fir Tamarack Black Spruce lorthern White Cedar 6122 - Bla Canopy Species Black Ash Tamarack Black Spruce 6220 - Al	% Cover         S           10         10           10         10           70         10           ack Spruce         % Cover         S           15         30         55	Size Class Seedling Seedling Seedling Size Class Sapling Seedling Seedling	DBH           8           8           10           Poletimbr           7           8           8           8	Age           80           80           80           80           80           80           er Poor           Age           85           85           cifed	Sub-Car A Blact Bal 11.6 Sub-Car Tag Blact	Alder Alder k Spruce sam Fir 85 hopy Species g Alder k Spruce	Medium Low 1-50 Density Medium Low	Avg. Height           5 - 10 feet           5 - 10 feet           5 - 10 feet           N/A           Avg. Height           5 - 10 feet	Size 5 - 10 feet 5 - 10 feet 5 - 10 feet Size 5 - 10 feet Variable	dense alder/conifer sapling understory.         Very low, flooded ground with seasonal flowing water from adjacent runoff. Open patches with black ash and alder within.         Flooded lowland area. Dense alder with some dead flooded tamarack saplings in the west half.         Dense red pine log stand with open understory. 150 200 210 Average
N/ 13 14	Canopy Species Balsam Fir Tamarack Black Spruce lorthern White Cedar 6122 - Bla Canopy Species Black Ash Tamarack Black Spruce 6220 - Al	% Cover         S           10         10           10         10           70         10           ack Spruce         % Cover         S           15         30         55           der/Willow         Kernel         10	Size Class Seedling Seedling Seedling Size Class Sapling Seedling Seedling	DBH 8 8 10 Poletimbo DBH 7 8 8 8 Unspe	Age           80           80           80           80           80           80           er Poor           Age           85           85           cifed	Sub-Car A Blacl Bal 11.6 Sub-Car Tau Blacl 9.0 12.4	Alder Alder k Spruce sam Fir 85 nopy Species g Alder k Spruce	Medium Low Low 1-50 Density Medium Low Immature	Avg. Height           5 - 10 feet           5 - 10 feet           5 - 10 feet           N/A           Avg. Height           5 - 10 feet           Variable	Size 5 - 10 feet 5 - 10 feet 5 - 10 feet Size 5 - 10 feet Variable	dense alder/conifer sapling understory.         Very low, flooded ground with seasonal flowing water from adjacent runoff. Open patches with black ash and alder within.         Flooded lowland area. Dense alder with some dead flooded tamarack saplings in the west half.
N/ 13 14	Canopy Species Balsam Fir Tamarack Black Spruce lorthern White Cedar 6122 - Bla Canopy Species Black Ash Tamarack Black Spruce 6220 - Al 42110 - Plar	% Cover         S           10         10           10         70           10         70           ack Spruce         % Cover           % Cover         S           15         30           55            der/Willow	Size Class Seedling Seedling Seedling Size Class Sapling Seedling Seedling	DBH 8 8 10 Poletimbo DBH 7 8 8 8 Unspe	Age           80           85           85           85           85           85           85           85           85           85           85           85           85           85           85	Sub-Car A Black Bak 11.6 Sub-Car Black 9.0 12.4 Sub-Car	hopy Species Alder k Spruce sam Fir 85 hopy Species g Alder k Spruce 69	Medium Low Low 1-50 Density Medium Low Immature	Avg. Height           5 - 10 feet           5 - 10 feet           5 - 10 feet           N/A           Avg. Height           5 - 10 feet           Variable           No           N/A	Size 5 - 10 feet 5 - 10 feet 5 - 10 feet Size 5 - 10 feet Variable	dense alder/conifer sapling understory.         Very low, flooded ground with seasonal flowing water from adjacent runoff. Open patches with black ash and alder within.         Flooded lowland area. Dense alder with some dead flooded tamarack saplings in the west half.         Dense red pine log stand with open understory. 150 200 210 Average
N/ 13 14	Canopy Species Balsam Fir Tamarack Black Spruce lorthern White Cedar 6122 - Bla Canopy Species Black Ash Tamarack Black Spruce 6220 - Al 42110 - Plar Canopy Species	% Cover         S           10         10           10         70           10         10           ack Spruce         6           % Cover         S           15         30           55         5           der/Willow         6	Size Class Seedling Seedling Seedling Size Class Sapling Seedling Seedling	DBH 8 8 10 Poletimbo DBH 7 8 8 8 Unspe Poletimb DBH	Age           80	Sub-Car A Black Bak 11.6 Sub-Car Black 9.0 12.4 Sub-Car Bak	Alder Alder k Spruce sam Fir 85 nopy Species g Alder k Spruce 69 nopy Species	Medium Low Low T-50 Density Medium Low Immature	Avg. Height           5 - 10 feet           5 - 10 feet           5 - 10 feet           N/A           Avg. Height           5 - 10 feet           Variable           No           N/A           Avg. Height           5 - 10 feet           Variable           No           Avg. Height	Size 5 - 10 feet 5 - 10 feet 5 - 10 feet Size 5 - 10 feet Variable	dense alder/conifer sapling understory.         Very low, flooded ground with seasonal flowing water from adjacent runoff. Open patches with black ash and alder within.         Flooded lowland area. Dense alder with some dead flooded tamarack saplings in the west half.         Dense red pine log stand with open understory. 150 200 210 Average

Crystal Falls Mgt. Unit							Rep	ort 7 – Sta	ands		Compartment: 153 Year of Entry: 2027			
Stand	Level 4 C	over Type		Size De	ensity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments			
17	622 - Lov	vland Shrub	•	Unspe	cifed	20.7			No		Flooded corridor with more of a seasonal water movement. Cut in 1974.			
18	4130	- Aspen		Poletimber Well		l 28.5	51	111-140	N/A	١				
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size				
	Quaking Aspen	85		8	51	Re	d Maple	Low	Variable	Variable				
	White Spruce	5	Sapling	7		Ba	lsam Fir	High	Variable	Variable				
	Black Spruce	5	Sapling	5							-			
	Balsam Fir	5	Sapling	5										
19	4130	- Aspen		Sapling	g Well	8.7	17	Immature	N/A		Cut in 2008. Dense aspen sapling stand. Manageable upland conifer mix			
	Canopy Species % Cover		Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	along the west edge can be harvested in the future.			
	Balsam Fir	Fir 5 Pole		3	17	7 R	Maple	Low	Variable	Variable				
	Quaking Aspen	82	82 Log 2 17		Ba	lsam Fir	Low	Variable	Variable					
	Red Pine	2		16		W	White Pine		Variable	Variable				
	White Pine	2		16		R	ed Pine	Trace	Variable	Variable				
	Black Cherry	3	Log	2		Blac	Black Spruce		Variable	Variable				
	White Spruce	ruce 2 Sapling		ng 7							_			
	Black Spruce	4	Seedling	8										
20	0 42110 - Planted Red F		ed Pine Sawtimber Well			l 28.3	69	141-170	N/A	١	Nice red pine log stand. Fairly open understory except in the south half			
	Canopy Species	% Cover	% Cover Size Class DB		DBH Age		nopy Species	Density	Avg. Height	Height Size	where pin oak saplings are dense. Some more open patches in the south 1/3 are growing aspen saplings. 150 160 180 Average of 160 BA.			
	White Pine	1		15		Blac	Black Spruce Trace Variable	Variable	Variable					
	Northern Pin Oak	1	Seedling 8		Red Maple		Low	Low Variable Variable Thinned in 2008.	Thinned in 2008.					
	Red Pine	98		12	69	Qual	ing Aspen	Low	Variable	Variable				
						Bla	k Cherry	Low	Variable	Variable				
						North	ern Pin Oak	Low	Variable	Variable				
						Ba	lsam Fir	Trace	Variable	Variable				
21	4130	- Aspen		Sapling	g Well	28.5	17	Immature	N/A	٨	Aspen sapling stand with dense mixed sapling understory in most areas. $\neg$ Some more open patches in the north but overall fully stocked.Cut in			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size				
	Bigtooth Aspen	15	Pole	3		Re	d Maple	Medium	Variable	Variable				
	Quaking Aspen	77	Log	3	17	Ba	lsam Fir	Low	Variable	Variable				
	White Pine	1		20		North	ern Pin Oak	Low	Variable	Variable				
	Balsam Fir	2	Log	3	17	W	nite Pine	Low	Variable	Variable				
	Northern Pin Oak	2		9		Bla	k Cherry	Low	Variable	Variable				
	Red Pine	3		18	17									

## Report 7 – Stands

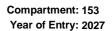
tand	Level 4 Co	,,		Size Density			Stand Age E	•	Managed Site		General Comments
22	4130	- Aspen		Sapling		14.6	17	Immature	N/A		Aspen sapling stand. Scattered large pine. An area across the center and some south edges were left unmanaged which contain larger asp
	Canopy Species		Size Class		l Age	e Sub-Can	nopy Species	Density	Avg. Height	Size	and black spruce.Cut in 2008. Drainage strip across center running
G	Quaking Aspen	77	Log	2	17	Re	ed Maple	Medium	Variable	Variable	N/S was excluded from harvest.
	White Pine	2		16		-	alsam Fir	Low	Variable	Variable	
	Black Spruce	3	Seedling	7			ed Oak	Low	Variable	Variable	
	Red Maple	5	Log	2		Whi	te Spruce	Low	Variable	Variable	
	Paper Birch	3	Sapling	5							
	Balsam Fir	3	Sapling	6	17						
No	orthern Pin Oak	3	Seedling	9							
	Red Pine	4		18							
23	6122 - Bl	ack Spruce		Poletimb	er Well	4.0	85	81-110	N/A		Nice black spruce patch. This could be managed with the adjacent stand in the future.
C	Canopy Species	% Cover	Size Class	DBH	l Age						
	White Pine	1		16							
	Red Pine	3		18							
l	Black Spruce	91	Seedling	8	85						
	Tamarack	5	Seedling	8	85						
24		iduous		Poletimb		9.1	80	81-110	N/A		Flooded alder/black ash drainage. Some edges along the north may l managed with adjacent stands in the future.
	Canopy Species		Size Class		l Age		nopy Species		Avg. Height	Size	_
	Black Spruce	35	Sapling	7	80	Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
Nort	hern White Cedar	5		8	80						
	Black Ash	40	Sapling	6	80						
	Balsam Fir	10	Sapling	6							
	Tamarack	10	Sapling	6							
25	4130	- Aspen	en Sapling Well			52.6	30	81-110	N/A		Aspen poles with mature oak and pine scattered across the stand. $\neg$ Some low depressions along the west and south will have to be
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	excluded from future management. Old road system is grown in densi
	Red Oak	5		13		W	hite Pine	Low	Variable	Variable	with conifer. Best access would be from the west private, otherwise n
١	White Spruce	3		9		Bla	ck Cherry	Low	Variable	Variable	road work from the SE area.
No	orthern Pin Oak	2		8		R	ed Pine	Low	Variable	Variable	
	Red Pine	2		20		Ba	alsam Fir	Low	Variable	Variable	
	Red Maple	5		10		R	ed Oak	Trace	Variable	Variable	
В	Bigtooth Aspen	7	Seedling	7		Whi	te Spruce	Low	Variable	Variable	
	White Pine	3		14							_
C	Quaking Aspen	73	Seedling	6	30						
26	622 - L ov	vland Shrub		Unspe	cifed	24.5			No		Flooded lowland flat with dense alder. Multiple old beaver dams back

## Report 7 – Stands

Compartment: 153 Year of Entry: 2027

Stanc	Level 4 C		Size Density		Acres	Stand Age E	BA Range	Managed S	ite	General Comments			
27	4112 - Maple, Beed	4112 - Maple, Beech, Cherry Association			ber Well	7.5	80	81-110	N/A		۱.		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	grow yet. South 1/3 has more aspen poles mixed in with an ironwood/conifer understory.		
	Red Oak	2		22		Irc	onwood	Medium	Variable	Variable			
	Yellow Birch	3		8		Ba	Isam Fir	Low	Variable	Variable			
	Quaking Aspen	10	Sapling	7		Whit	te Spruce	Low	Variable	Variable			
	Sugar Maple	65		12	80						_		
	Red Maple	17		12	80								
	Bigtooth Aspen	3		11									
28	4130	- Aspen		Poletim	oer Well	47.1	52	111-140	N/A	<b>\</b>	Cut in 1973. Large, mature aspen stand. Merchantable spruce/fir along		
	Canopy Species	% Cover	Size Class	DBH	DBH Age		nopy Species	Density	Avg. Height	Size	most edges. Some vernal depressions within. The old roadbed is grown in dense with conifer. Access is from the far SW or SE corner, both		
	White Spruce	3	Sapling	6		Re	d Maple	High	Variable	Variable	need a lot of road work, easiest would be from the SE with a narrow		
	Black Spruce	5	Seedling	edling 8 52		2 Balsam Fir	Isam Fir	Low	Variable	Variable	lowland crossing.		
	Balsam Fir	4	Sapling	7	52	Wł	nite Pine	Low	Variable	Variable			
	Quaking Aspen	80		8	52	Whit	te Spruce	Low	Variable	Variable			
	Red Pine	1		18		Black Spruce		Low	Variable	Variable			
	Red Maple	5		8	52					1	-		
	White Pine	2		16									
29	6121 - `	Tamarack Poletimber Well			38.0	85				Flooded lowland flat. Most areas are dominated by alder or flooded,			
	Canopy Species	% Cover	Size Class	DBH	- Age	Sub-Canopy Species		Density	Avg. Height	Size	declining tamarack. Some edges may be operable when adjacent stands are managed.		
	Black Ash	5	Sapling	7		Blac	k Spruce	Low	Variable	Variable			
	White Pine	5		16		Та	ig Alder	High	Variable	Variable			
	Black Spruce	25	Seedling	8	85						_		
No	orthern White Cedar	10		8	80								
	Tamarack	55	Seedling	8	85								
30	4130 - Aspen		Poletimber Well			7.1	38	51-80	N/A	ι.	Aspen pole stand. A bit poorer quality aspen site with sparser, shorter		
	Canopy Species	% Cover	Size Class	DB	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	trees. Some pin oak, red maple, and conifer saplings are found in the understory.		
	White Spruce	2		12		Re	d Maple	Medium	Variable	Variable			
	Black Spruce	2	Sapling	6		Ba	Isam Fir	Low	Variable	Variable			
	Red Pine	3		20		Northe	ern Pin Oak	Medium	Variable	Variable			
	Red Maple	7	Sapling	6		Re	ed Pine	Low	Variable	Variable			
	Balsam Fir	2	Sapling	5		Wh	nite Pine	Low	Variable	Variable			

## Report 7 – Stands



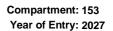
Stand	Level 4 Co	4 Cover Type		Size De	Size Density		Stand Age B	A Range	Managed S	ite	General Comments
31	4133 - Aspen, Mixed Pine				Sapling Well		26	1-50	N/A		Diverse conifer mix with aspen dominating a lot of the stand. Jack pine
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	and red pine sapling/poles are abundant within.
	Red Maple	2	Seedling	8		Ba	sam Fir	Low	Variable	Variable	
	Balsam Fir	5	Sapling	7		Ja	ck Pine	Medium	Variable	Variable	
	White Pine	3		8		Blac	k Cherry	Medium	Variable	Variable	-
	Jack Pine	10	Pole	4		Northe	ern Pin Oak	Low	Variable	Variable	
	Black Cherry	2	Seedling	8		Re	ed Pine	Low	Variable	Variable	
	Quaking Aspen	57	Pole	3	26					I	-
I	Northern Pin Oak	7	Sapling	7							
	Red Pine	4		20							
	Red Pine	10	Log	2							
32	4134 - Aspen, Spruce/Fir			Sapling		12.8	6		N/A		Area ranged from lowland ground to aspen patches, transition line to between upland/lowland type stand. Lowland areas have good lowland
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	conifer regen. Upland areas have good aspen regen.
	Red Maple	5	Log	1		Ba	sam Fir	Low	< 5 feet	< 5 feet	
	Quaking Aspen	60	Log	1	6						
	Black Spruce	25	Log	1							
	Tamarack	10	Log	1							
33	6122 - Black Spruce Poletimber Well		er Well	10.7	85	81-110	N/A		Excellent quality black spruce poles with some tamarack speckled in.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Flat lowland conifer ground that is operable and does not hold water. Some decline showing in a few black spruce from older age.
	Tamarack	22	Seedling	8	85	Blac	k Spruce	Low	5 - 10 feet	5 - 10 feet	
	Black Spruce	75	Seedling	8	85	Та	g Alder	Low	5 - 10 feet	5 - 10 feet	
No	rthern White Cedar	1		8	80						-
	White Pine	2		18							
34	6122 - Bl	Black Spruce		Poletimber Well		6.3	85	81-110	N/A		Manageable, small lowland patch bordering flooded black ash stand. Contains mature black spruce and conifer. This stand can be managed
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	in the future with adjacent harvests for access.
	Red Maple	3		13		Blac	k Spruce	Medium	< 5 feet	< 5 feet	
	Red Pine	3		18		Ba	sam Fir	Low	Variable	Variable	
	Tamarack	15	Seedling	8	85						-
	White Spruce	2		14							
	Black Spruce	73	Seedling	8	85						
			-	-							
No	rthern White Cedar	1		8							

## Report 7 – Stands

Compartment: 153 Year of Entry: 2027

stand	a Level 4 C	over Type		Size Density	Acres Stand Age B	ч кange	Managed S	ite	General Comments
35	4130	- Aspen		Sapling Well	8.5 6		N/A		Aspen saplings with some scattered pine retained in the west area.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	Lowland transition along south edge has some lowland conifer regeneration.
	Quaking Aspen	73	Log	1 6	Balsam Fir	Low	< 5 feet	< 5 feet	
	Red Maple	10	Log	1					
	Red Pine	10		13					
	Tamarack	2	Log	1					
	Black Spruce	5	Log	1					
36	4130	- Aspen		Sapling Well	25.0 6 li	nmature	N/A		Aspen sapling stand. A fair amount of red pine sapling/poles scatter
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	across the stand. A mature patch of red pine was left in the south half.Cut in 2019.
	Northern Pin Oak	2	Seedling	8	Black Spruce	Low	Variable	Variable	
	Red Pine	15	-	4	Northern Pin Oak	Low	Variable	Variable	
	Quaking Aspen	83	Log	1 6	Red Pine	Low	Variable	Variable	*
37	4130 - Aspen			Poletimber Well	39.1 38	51-80	N/A		Aspen pole stand. Trees in the north half and higher elevations have a
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	arger diameter. Understory can be dense with red maple and pin or saplings in areas.
	Red Pine	3		20	Balsam Fir	Low	Variable	Variable	oapingo in arcao.
	Quaking Aspen	84	Seedling	7 38	Northern Pin Oak	Medium	Variable	Variable	
	Balsam Fir	2	Sapling	5	Red Pine	Low	Variable	Variable	
	White Spruce	2		12	Red Maple	Medium	Variable	Variable	
	Black Spruce	2	Sapling	6	White Pine	Low	Variable	Variable	
	Red Maple	7	Sapling	6		·			-
39	4130	- Aspen		Sapling Well	5.8 27	1-50	N/A		Aspen sapling to small pole sized trees with dense understory.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Quaking Aspen	92	Pole	3 27	Red Maple	Medium	Variable	Variable	
	Red Pine	5		12	Black Spruce	Low	Variable	Variable	
	Red Maple	3	Log	3	Balsam Fir	Low	Variable	Variable	
40	42110 - Pla	42110 - Planted Red Pi		Sawtimber Well	66.8 69	81-110	N/A		Thinned in 2019, thinned red pine and removed all merchantable tre
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	Planted in 1955/56, some areas re-planted in 1966. Red pine stand, small sawlog to large pole sized trees. Currently open understory wi
	White Pine	1		15	Quaking Aspen	Low	Variable	Variable	sparser mixed saplings in most areas.
	Northern Pin Oak	1	Seedling	8	Red Maple	Low	Variable	Variable	
	Red Pine	98		11 69	Black Cherry	Low	Variable	Variable	
					Northern Pin Oak	Low	Variable	Variable	
					Balsam Fir	Trace	Variable	Variable	
					Black Spruce	Trace	Variable	Variable	

## Report 7 – Stands



Stand	Level 4 Co		Size De	nsity	Acres	Stand Age	BA Range	Managed S	lite	General Comments	
45	6115 - Lowland Ash			Poletimber Well		37.7 85		81-110	N/A		Mostly flooded drainageway. The entire north is dominated by black ash,
	Canopy Species	% Cover	Size Class	s DBH Age		Sub-Ca	anopy Species	s Density	Avg. Height	Size	standing dead and areas of dense saplings. The south contains more spruce and tamarack. Areas along the edges containing merchantable
	Quaking Aspen	2		10		Bla	ck Spruce	Low	Variable	Variable	conifers and could be harvested with adjacent stands.
	White Pine	2		14		Re	ed Maple	Low	Variable	Variable	
	Black Ash	61	Sapling	6	85	Ta	ag Alder	High	5 - 10 feet	5 - 10 feet	
	Black Spruce	20	Seedling	8	85			I		1	-
No	orthern White Cedar	5		8							
	Tamarack	10	Seedling	8							