

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12173 Entry Year: 2027 Acreage: 1,963 County: Iron Management Area: Brule River

Stand Examiner: Eric Brolin

Legal Description:

T41N R32W sections 2-4, 8-12, 14,15 & 17

Identified Planning Goals:

Develop age class distribution in aspen type. Develop the quality while maintaining diversity in hardwood types. Maintain health of conifer types and increase acreage where possible. Maintain and improve road system.

Soil and topography:

Soils are sandy loam to loamy sand, rolling hills to wet lowlands.

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

Private and corporate lands scattered throughout compartment. Highly used for recreation.

Unique Natural Features:

Brule River and Paint River Pond.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is in the Peavy End Morraine Management Area which has the following featured species: American woodcock, black bear, wood duck, eastern bluebird, and white-tailed deer. This area is one of the most important oak areas in entire Crystal Falls Forest Area. This area provides excellent bear, deer and wood duck habitat due to the presence of mast producing oak trees. Maintaining and increasing this mast crop is the desired management. Balancing the age classes of aspen to provide early successional habitat through mature aspen forest is a goal in this compartment. Lowland conifers and lowland hardwood types provide winter and summer cover and are essential for travel corridors for a many species of wildlife and provide essential habitat for riparian species, such as wood duck. Deer find critical winter cover in the lowland conifer stands and natural pine stands. Mesic conifer in the uplands is promoted to provide structural diversity within stands which increases habitat value, as cover for wildlife. This also enables deer to access forage in the uplands during deep snow conditions. Mast production, such as oak, cherry and raspberry are encouraged to provide valuable forage for bear, deer, grouse and turkey.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Michigamme and Dunn Creek Formations and the Badwater Greenstone subcrops below the glacial drift. There is not a current

economic use for these rocks. Abandoned iron mines at Crystal Falls are located seven miles to the north. This Compartment was not previously leased for metallic exploration, but could have potential. A gravel pit is located in Section 9 and there is potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Very good throughout most of compartment. Some two tracks accessible by four wheel drive.

Survey Needs:

Recreational Facilities and Opportunities:

Hunting and fishing. Snowmobile trail UP2 runs through the west side of compartment.

Fire Protection:

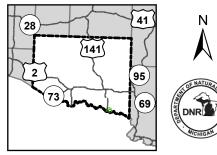
Additional Compartment Information:

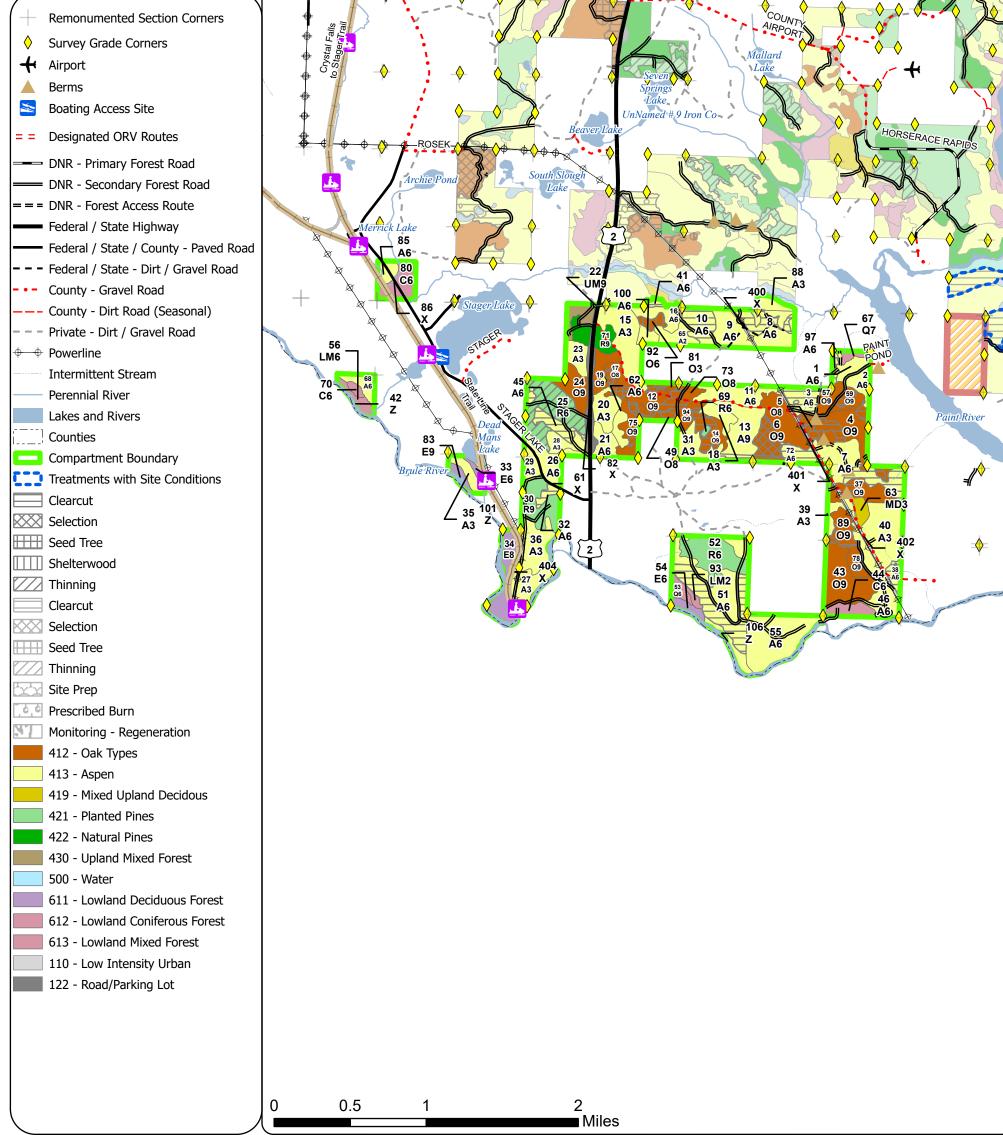
This compartment has had the presence of oak wilt confirmed and has had these areas treated. If other areas of oak wilt are detected, they will be treated.

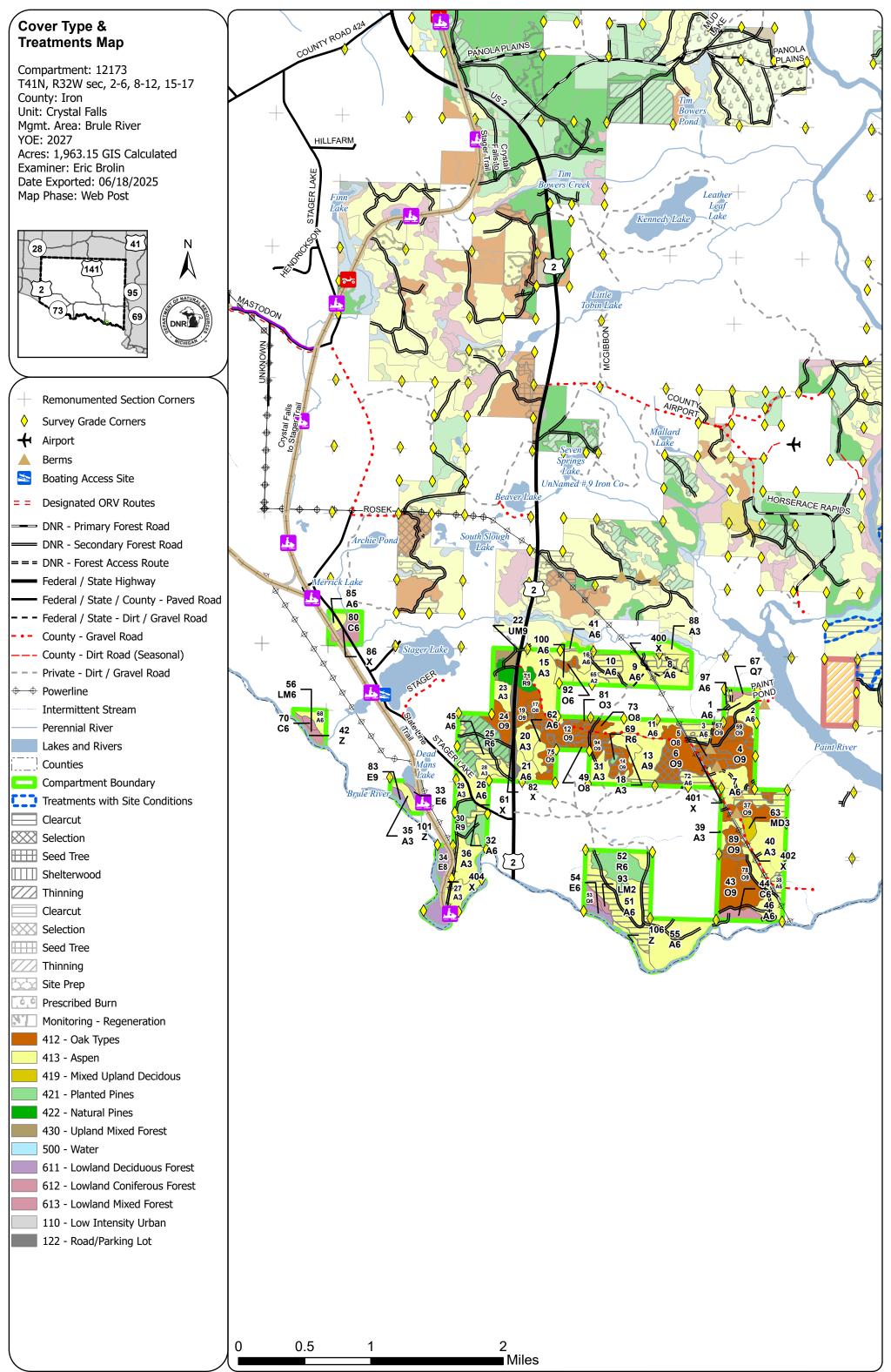
The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

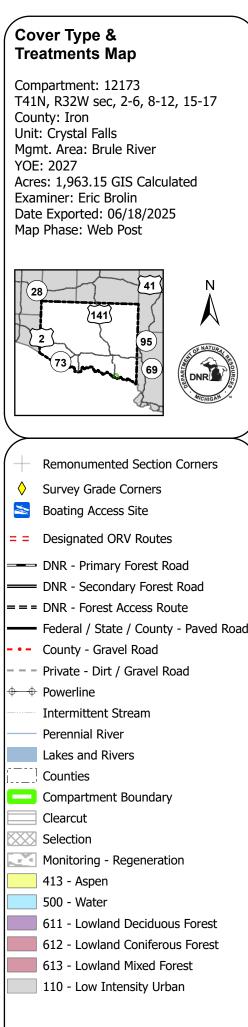
The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system

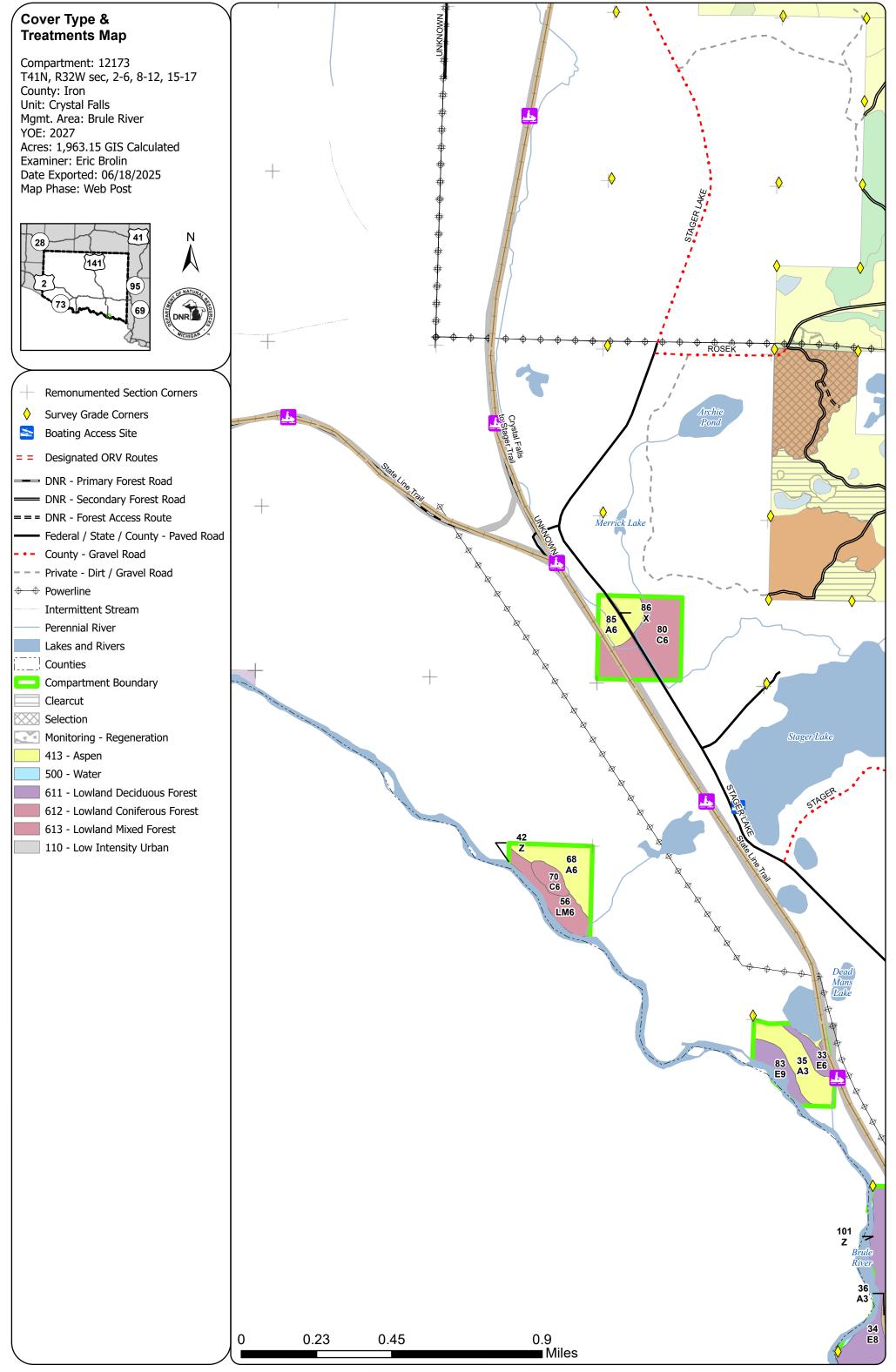
Cover Type &





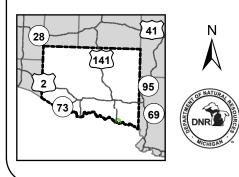




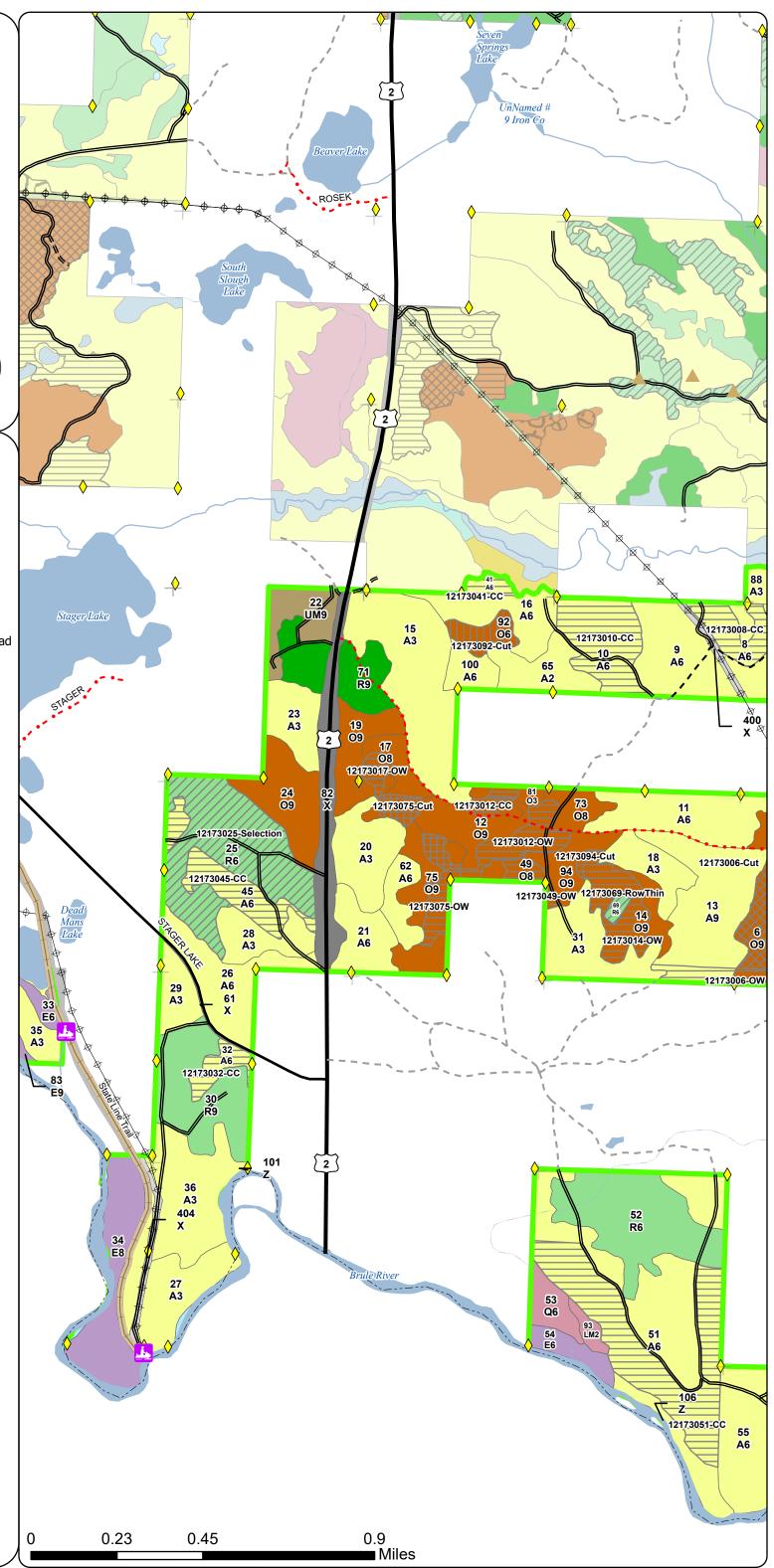


Cover Type & Treatments Map

Compartment: 12173 T41N, R32W sec, 2-6, 8-12, 15-17 County: Iron Unit: Crystal Falls Mgmt. Area: Brule River YOE: 2027 Acres: 1,963.15 GIS Calculated Examiner: Eric Brolin Date Exported: 06/18/2025 Map Phase: Web Post



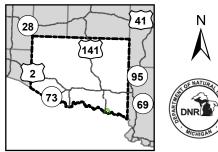
Remonumented Section Corners \diamond Survey Grade Corners Berms Designated ORV Routes = = DNR - Primary Forest Road _ DNR - Secondary Forest Road = = DNR - Forest Access Route Federal / State Highway Federal / State / County - Paved Road - - Federal / State - Dirt / Gravel Road County - Gravel Road - - Private - Dirt / Gravel Road + Powerline ⊕ Intermittent Stream Perennial River Lakes and Rivers Counties Compartment Boundary Clearcut Selection Seed Tree Shelterwood /// Thinning Clearcut Selection \square Thinning Monitoring - Regeneration 412 - Oak Types 413 - Aspen 421 - Planted Pines 422 - Natural Pines 430 - Upland Mixed Forest 500 - Water 611 - Lowland Deciduous Forest



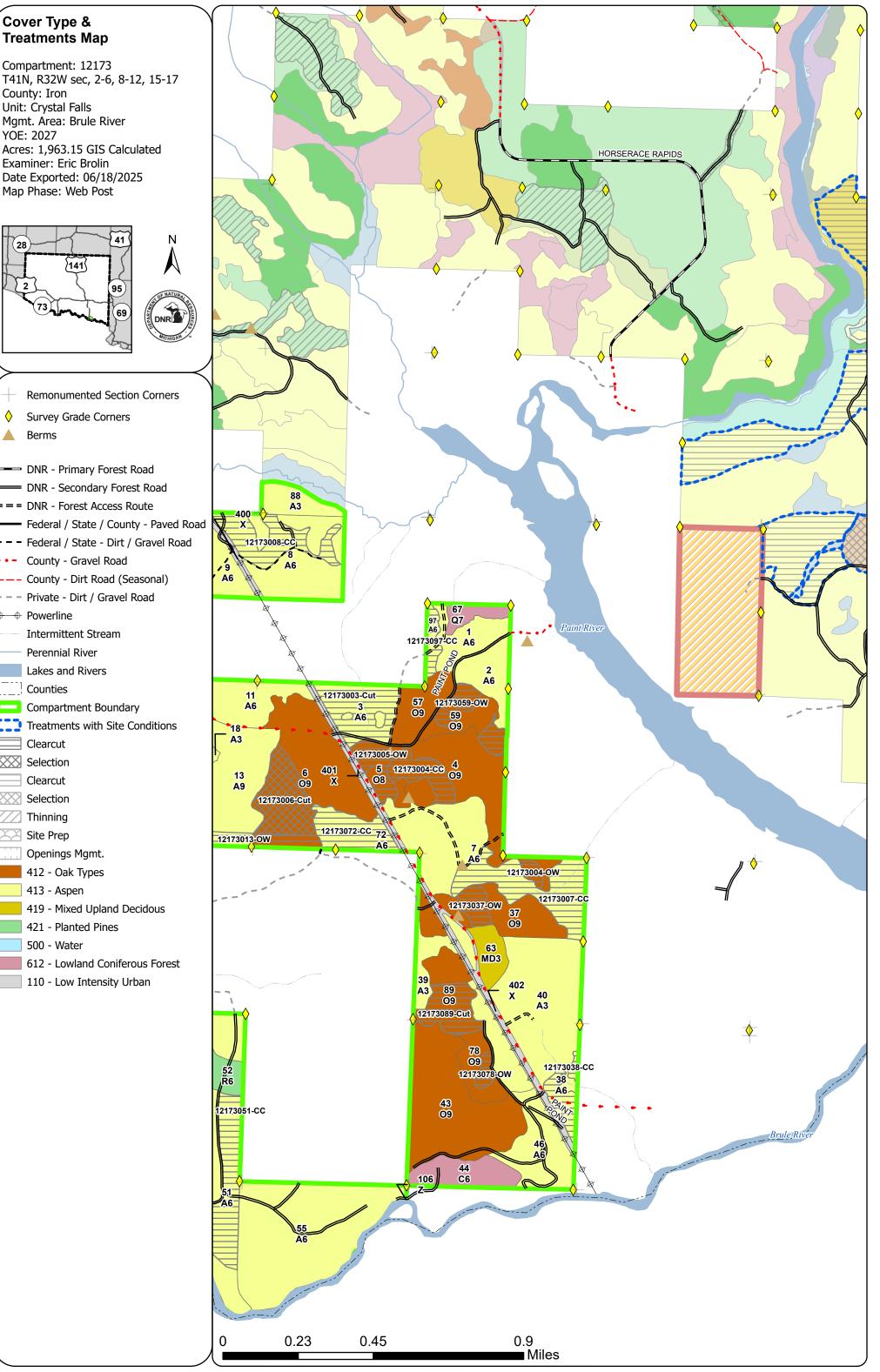
612 - Lowland Coniferous Forest
613 - Lowland Mixed Forest
110 - Low Intensity Urban
122 - Road/Parking Lot

Cover Type &

Compartment: 12173 T41N, R32W sec, 2-6, 8-12, 15-17 County: Iron Unit: Crystal Falls Mgmt. Area: Brule River YOE: 2027 Acres: 1,963.15 GIS Calculated Examiner: Eric Brolin Date Exported: 06/18/2025 Map Phase: Web Post

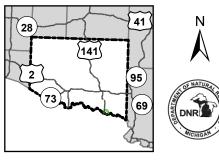




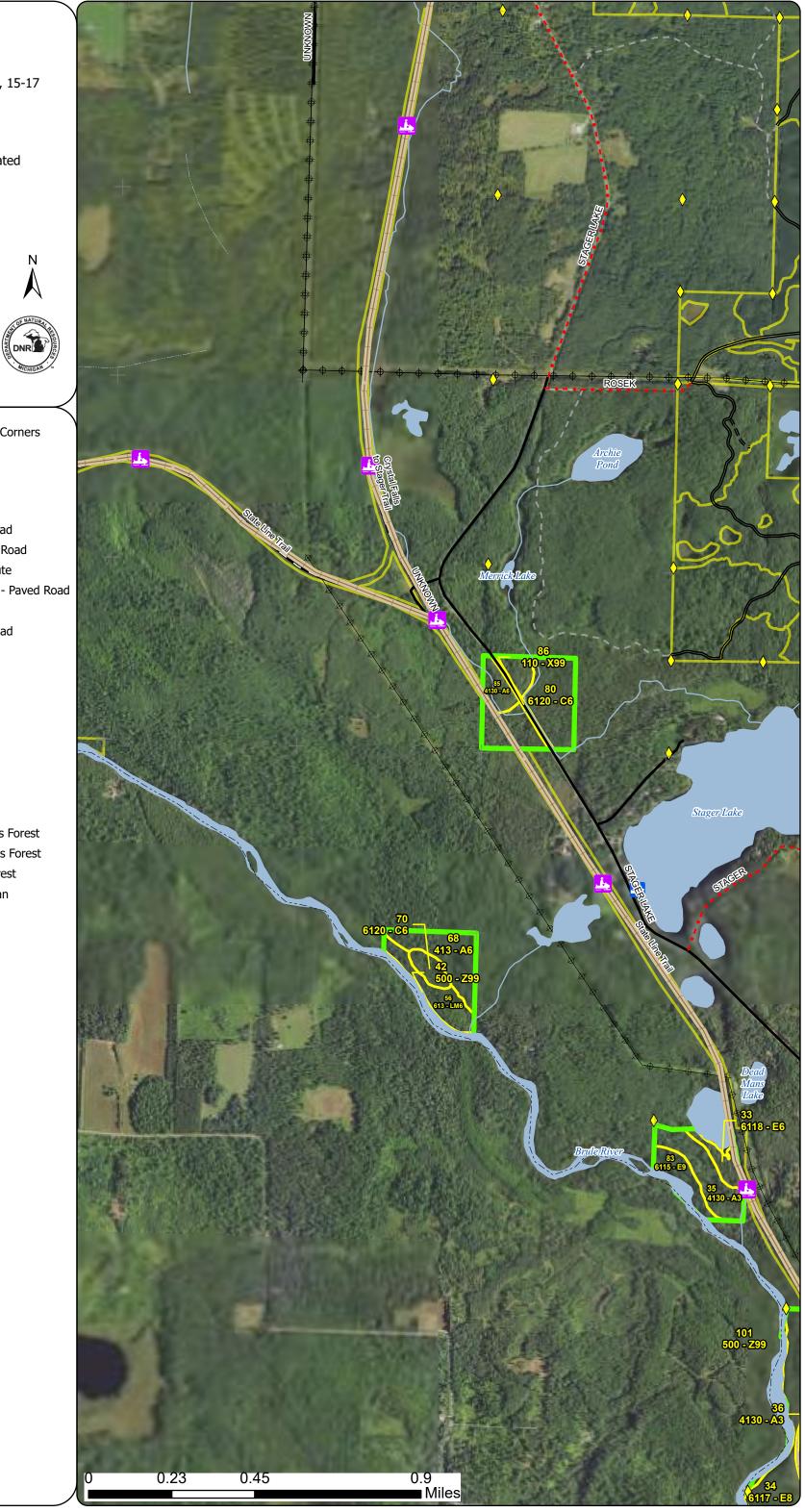


Stand Boundary Map

Compartment: 12173 T41N, R32W sec, 2-6, 8-12, 15-17 County: Iron Unit: Crystal Falls Mgmt. Area: Brule River YOE: 2027 Acres: 1,963.15 GIS Calculated Examiner: Eric Brolin Date Exported: 06/18/2025 Map Phase: Web Post

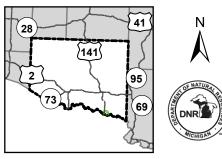


+	Remonumented Section Corners
\diamond	Survey Grade Corners
	Boating Access Site
= =	Designated ORV Routes
	DNR - Primary Forest Road
	DNR - Secondary Forest Road
= = =	DNR - Forest Access Route
	Federal / State / County - Paved Re
- • -	County - Gravel Road
	Private - Dirt / Gravel Road
\$ _\$	Powerline
	Intermittent Stream
	Perennial River
	Lakes and Rivers
i	Counties
	Compartment Boundary
	Stand Outline
	413 - Aspen
	500 - Water
	611 - Lowland Deciduous Forest
	612 - Lowland Coniferous Forest
	613 - Lowland Mixed Forest
	110 - Low Intensity Urban
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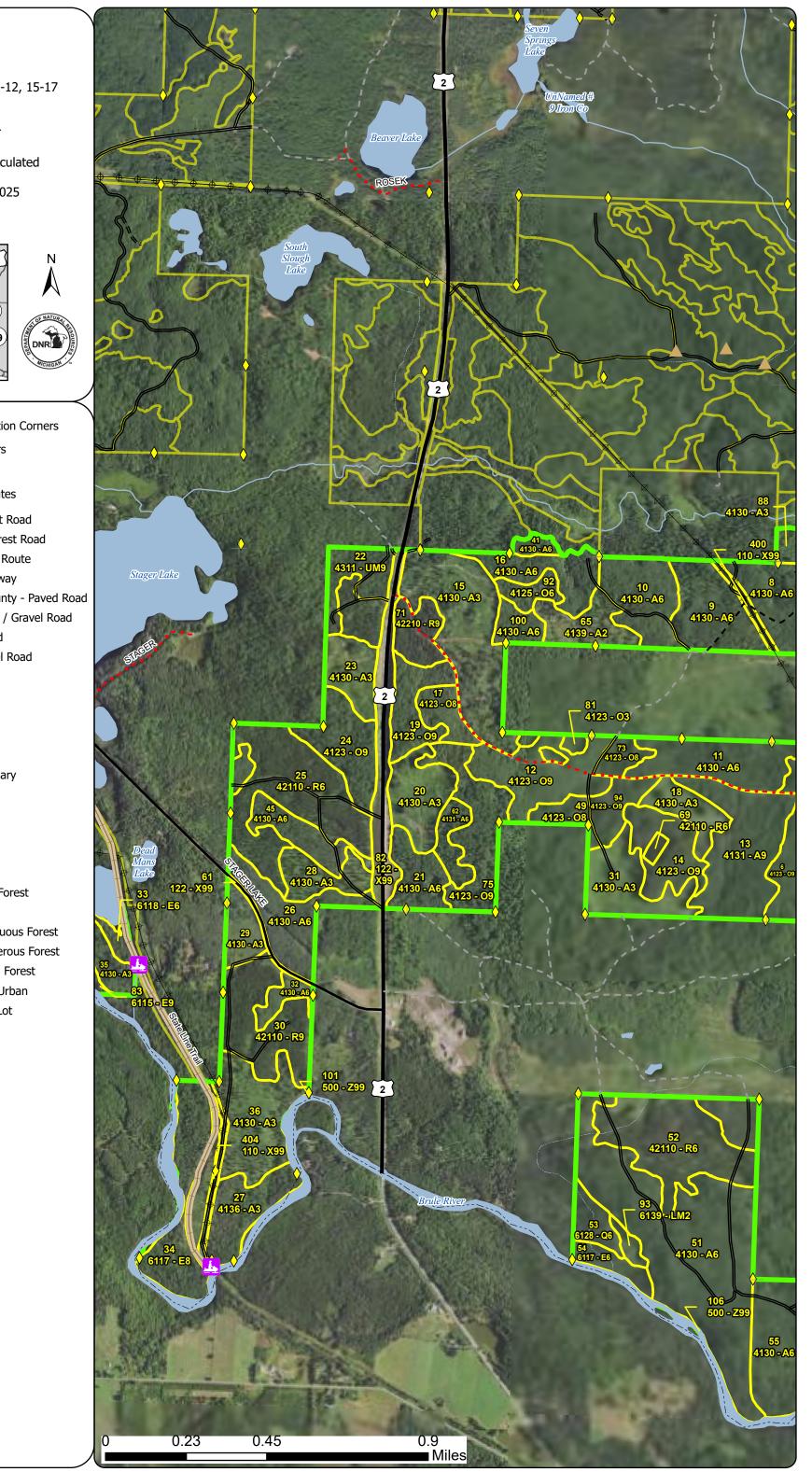


Stand Boundary Map

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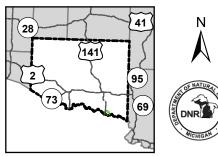


Remonumented Section Corners \diamond Survey Grade Corners Berms = = Designated ORV Routes ---- DNR - Primary Forest Road = DNR - Secondary Forest Road = = = DNR - Forest Access Route Federal / State Highway - Federal / State / County - Paved Road - - - Federal / State - Dirt / Gravel Road - - County - Gravel Road - - - Private - Dirt / Gravel Road ⊕ ⊕ Powerline Intermittent Stream Perennial River Lakes and Rivers Counties Compartment Boundary Stand Outline 412 - Oak Types 413 - Aspen 421 - Planted Pines 422 - Natural Pines 430 - Upland Mixed Forest 500 - Water 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 613 - Lowland Mixed Forest 110 - Low Intensity Urban 122 - Road/Parking Lot

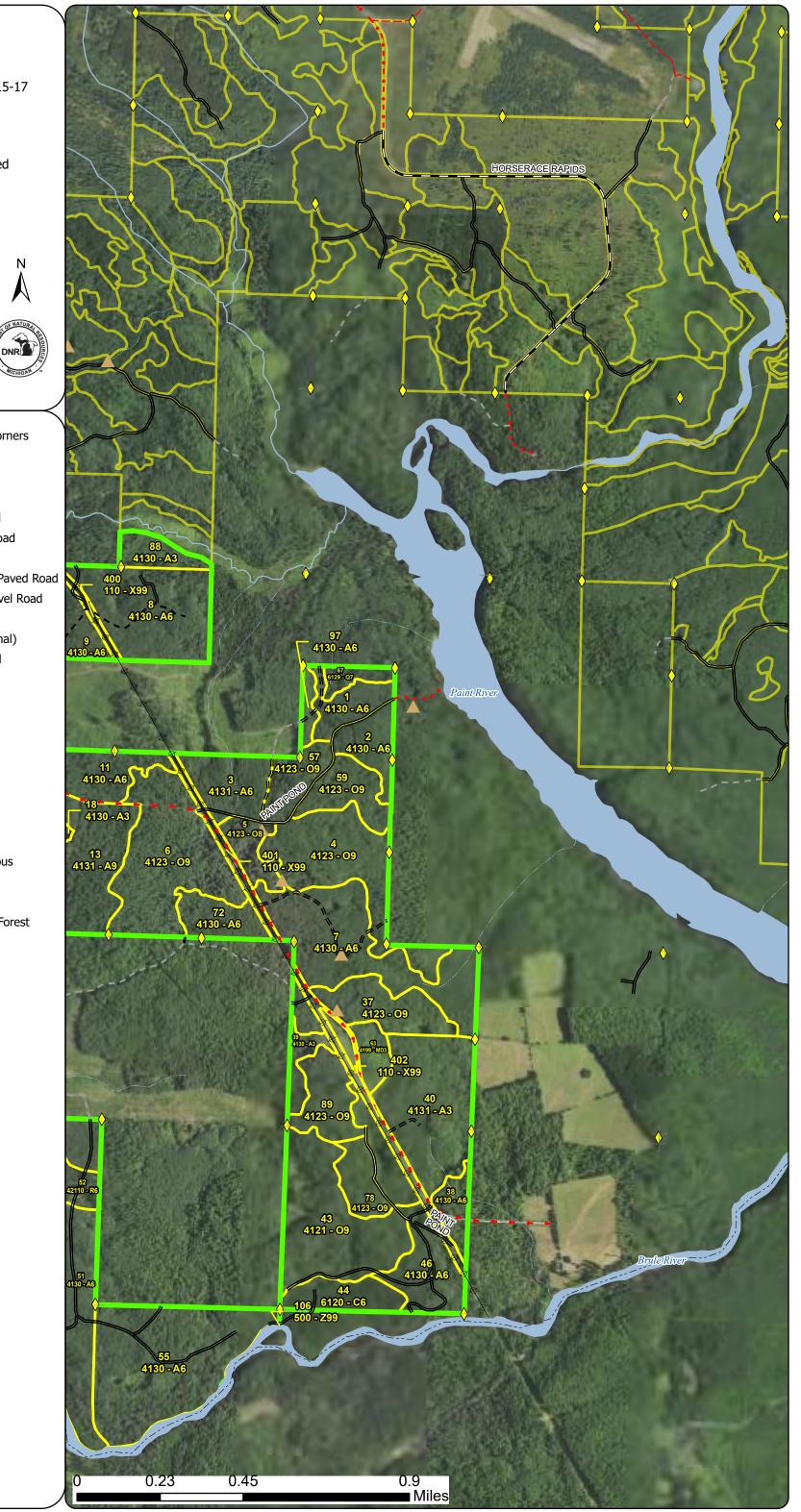


Stand Boundary Map

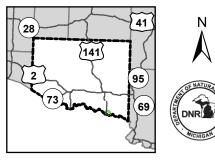
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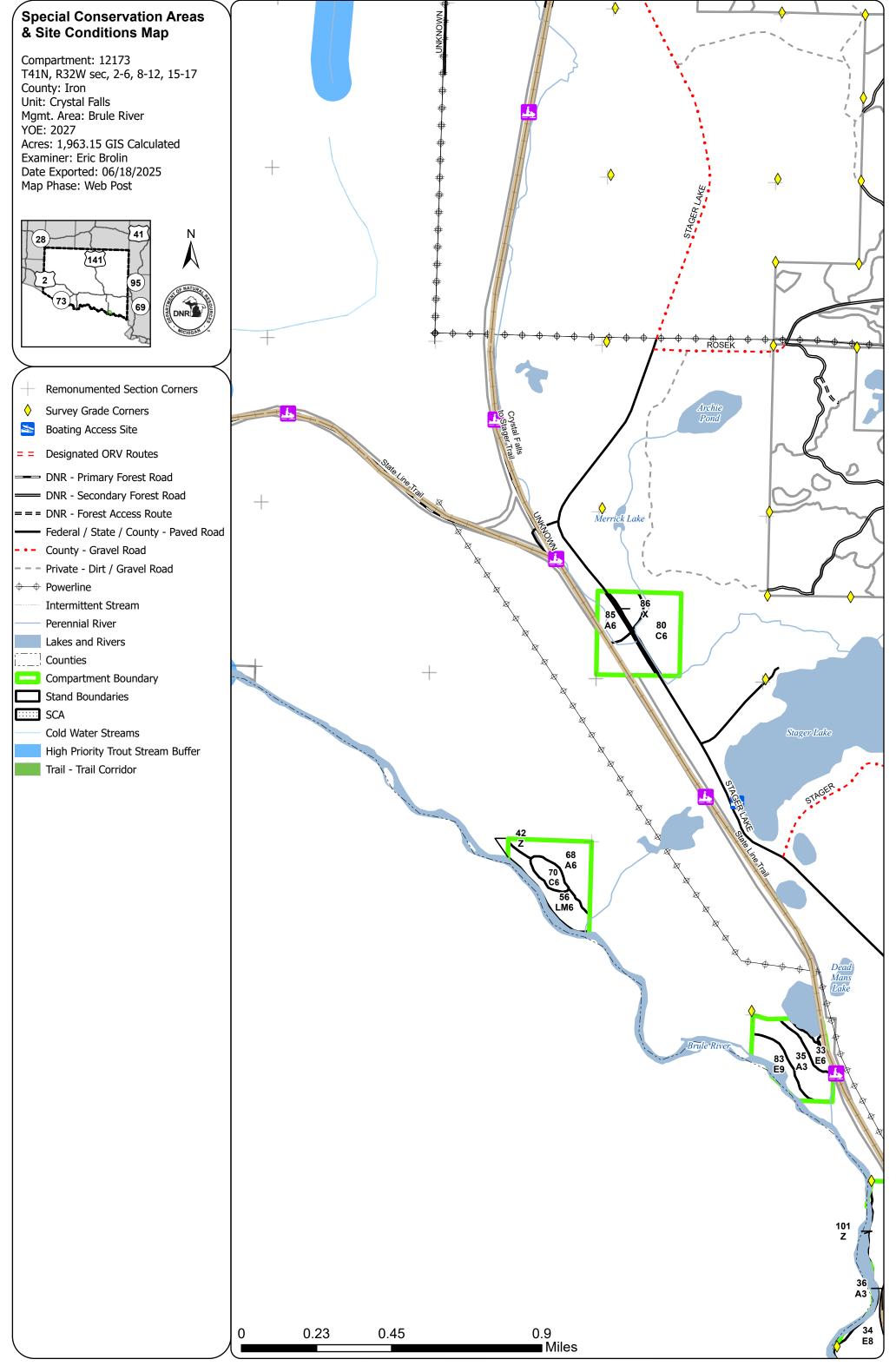
& Site Conditions Map



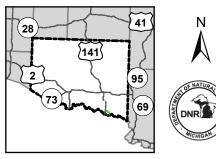
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- - Cold Water Streams



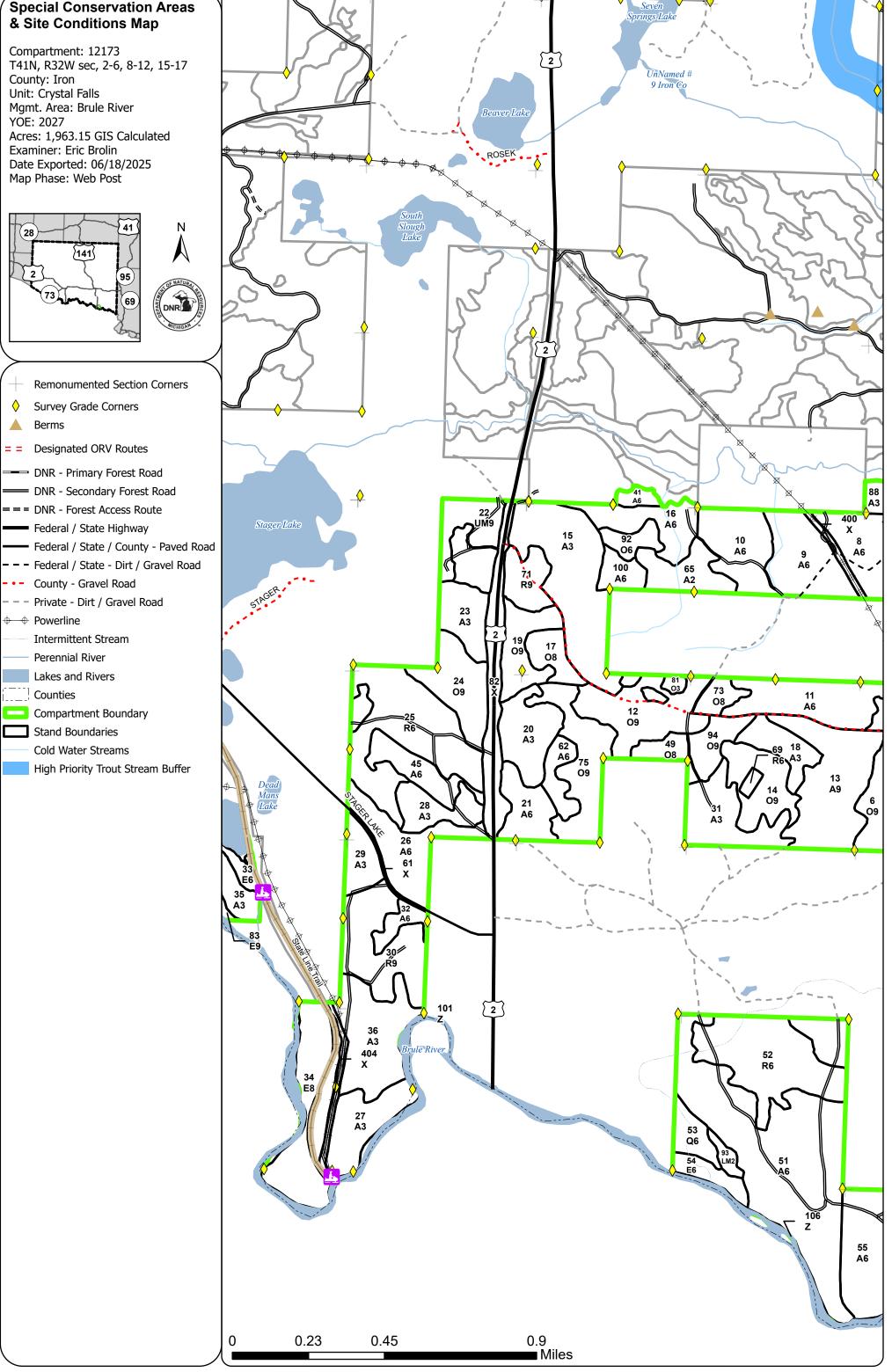
Special Conservation Areas

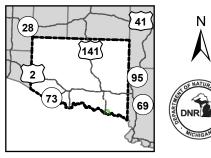


- Survey Grade Corners

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- Cold Water Streams

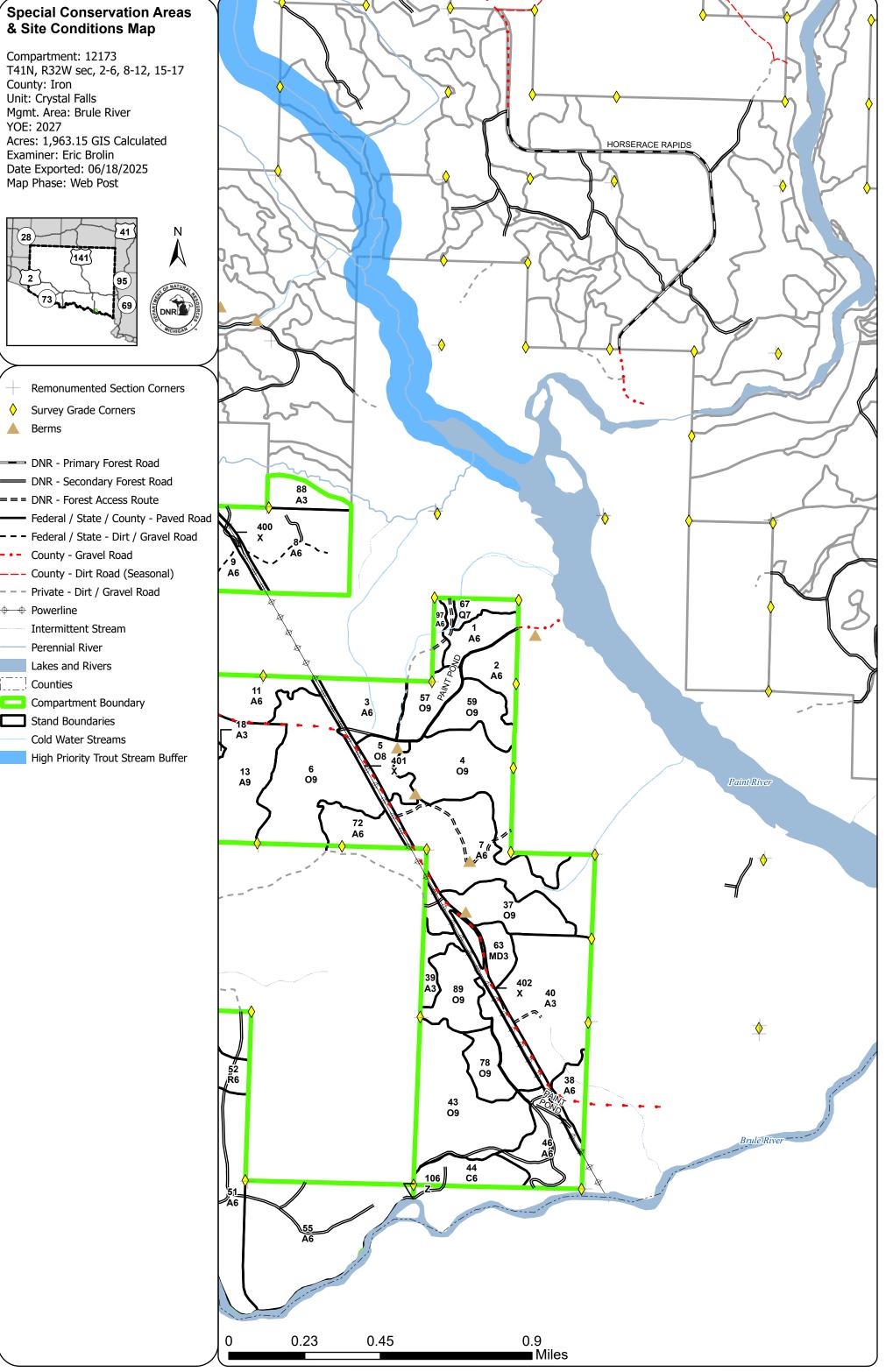




- **Remonumented Section Corners** \diamond Survey Grade Corners

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- Cold Water Streams



Report 1 – Total Acres by Cover Type and Age Class

Crystal Falls Mgt. Unit

Eric Brolin: Examiner

Compartment 173 Year of Entry 2027



Age Class

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Aspen		246	107	104	175	422	10	15	0	, s	, s	&	0		, v			5 Jre	1079
Cedar	0	0	0	0	0	0	0	0	0	4	17	28	0	0	0	0	0	0	49
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	23	34	0	0	0	0	0	0	57
Lowland Mixed Forest	0	4	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Oak	0	0	5	0	0	0	0	0	0	0	461	0	0	0	0	0	0	0	466
Red Pine	0	0	0	0	0	2	0	149	0	0	25	0	0	0	0	0	0	0	175
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	17	1	0	0	0	0	0	0	17
Urban	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Water	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Total	82	250	121	104	175	424	10	164	0	14	559	63	0	0	0	0	0	0	1964



MICHIGAN N	Crystal Falls Mgt. Unit		Compartment	173
CHIGH!	Year of Entry: 2027	Acres of Harvest	Total Compartment Acres:	1,963
		Commercial Harvest - 426		
		Harvests with Site Condition - 0		
		Next Step Harvest - 0		
		Habitat Cut - 0		

Cover Type by Harvest Method

			Contraction of the second	Contraction of the second	to of	and the second	icon con L	O O O	Reputer to	S. S	Ster 1.50	5 ⁵⁰
Aspen		219	0	0	0	0	0	0	0	0	219	
Oak		109	21	0	8	8	0	0	0	0	144	
Red Pine		0	0	0	0	0	61	0	0	0	61	
	Total	328	21	0	8	8	61	0	0	0	424	

Proposed and Next Step Treatments by Method

			Contraction of the second	and a large	Contraction of the second	o o	Outro C	A. Colicio	sion	300 - 30	40 / 20	R. C.
Current		424	0	0	0	0	0	0	0	0	424	
Next Step		0	0	0	0	0	0	2	0	0	2	
	Total	424	0	0	0	0	0	2	0	0	426	

S t		rystal Fall	s Mgt. Unit		Repoi	rt3 ⁻	Treatments		Compartmen Year of Entry		
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Ha C
	ed Treatmen	2.5	4123 - Red Oak	9	99	171-	Harvest	Clearcut	4319 - Mixed	Planting	
Pres Spec	<u>cription</u> Harves <u>cs:</u>		antable trees excep	-	33	200	Haivest	Clearcut	Upland Forest	Record	
Trea	<u>Step</u> tments: eptable Any co	mbination	of the current overst	tory specie	S.						
<u>Rege</u> Othe	<u>en:</u>					ne west 2/	3 of the stand wi	II be retained con	taining healthy matu	re oak.	
	Condition: osed Start Date	<u>:</u> 10/01/20	025								
3	12173003-Cut	21.3	4131 - Aspen, Oak	6	46	111- 140	Harvest	Clearcut	4131 - Aspen, Oak	Planting Record	
<u>Spec</u> <u>Next</u>			antable deciduous t st producing oak wh						retention containing	mature oak.	This wil
<u>Othe</u> Com									be excluded along	the north edg	ge, this
Com Site Prop		long term s : 10/01/20	stand retention. Inclu			ak wilt spe			b be excluded along 4310 - Pine, Oak	Planting	
Com Site Prop 17	ment: add to Condition: losed Start Date 12173017-OW cription Harves	long term s <u>:</u> 10/01/20 3.8	stand retention. Inclu	ude all app	licable of	ak wilt spe 111- 140	ecs for timber sa	le.			je, this
Com Site Prop 17 Pres Spec Next Trea	iment: add to Condition: iosed Start Date 12173017-OW cription Harves cs: Step tments:	long term s <u>10/01/20</u> 3.8 st all trees 2	2" DBH and larger to	ude all app 8 o prep site	99 for mixed	111- 140 d pine pla	ecs for timber sa	Clearcut	4310 - Pine, Oak	Planting	ge, this
Com Site Prop 17 Pres Spec Next Trea	Imment: add to Condition: Imment: Imment: Imment: Imment: Step Imment:	long term s <u>10/01/20</u> 3.8 st all trees 2 50% red/50	331 331 4123 - Red Oak 2" DBH and larger to 0% white pine with v	ude all app 8 5 prep site white oak n	99 for mixed	111- 140 d pine pla	Harvest Harvest nting.	le. Clearcut r initial planting.	4310 - Pine, Oak	Planting Record	
Com Site Prop 17 17 Press Spec Next Trea Accee Rege Othe Com	imment: add to Condition: iosed Start Date 12173017-OW cription Harves cs: Step tments: eptable Mixed Start	long term s <u>10/01/20</u> 3.8 st all trees 2 50% red/50	stand retention. Inclu 031 4123 - Red Oak 2" DBH and larger to 0% white pine with v res while planting to	ude all app 8 5 prep site white oak n	99 for mixed	111- 140 d pine pla	Harvest Harvest nting.	le. Clearcut r initial planting.	4310 - Pine, Oak Mix	Planting Record	
Com Site Prop 17 Pres Spec Next Trea Accee Rege Othe Com	imment: add to Condition:	iong term s 10/01/20 3.8 st all trees 2 50% red/50 te tree box is available	2" DBH and larger to 0% white pine with v 2es while planting to e.	ude all app 8 5 prep site white oak n	99 for mixed	111- 140 d pine pla	Harvest Harvest nting.	le. Clearcut r initial planting.	4310 - Pine, Oak Mix	Planting Record	
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Com Site Prop 17 Pres Spec Next Trea Acce Rege Othe Com Site Prop 17	imment: add to Condition:	iong term s i 10/01/20 3.8 st all trees 2 50% red/50 is available i 10/01/20 16.9	stand retention. Inclu 031 4123 - Red Oak 2" DBH and larger to 0% white pine with v tes while planting to 5.	ude all app 8 o prep site white oak n create a re	99 for mixed hix optior ed pine / 99	111- 140 d pine pla n if availat white pine 111- 140	Harvest Harvest nting. ble during or after e mix. Plant white Harvest	le. Clearcut r initial planting. e oak within, poss	4310 - Pine, Oak Mix ibly in open patches 4310 - Pine, Oak	Planting Record , when fundin	
Com Site Prop 17 Pres Spec Next Trea Accee Regg Othe Com Site Prop Prop 17 17	imment: add to Condition: add to iosed Start Date add to 12173017-OW add to cription Harves Step Harves step Mixed for the source condition: add to and Alterna iment: source Condition: add to iosed Start Date 12173014-OW cription Harves Step the number of the source Step the number of the source Source Source Step the number of the source	iong term s i 10/01/20 3.8 st all trees 2 50% red/50 is available i 10/01/20 16.9 st all trees 2	4123 - Red Oak 2" DBH and larger to 0% white pine with v tes while planting to 2. 025 4123 - Red Oak 2" DBH and larger to	8 b prep site white oak n create a re 8 b prep site	99 for mixed hix option ed pine / 99 for mixed	111- 140 d pine pla n if availat white pine 111- 140 d pine pla	Harvest Harvest nting. ble during or after e mix. Plant white Harvest nting.	clearcut r initial planting. e oak within, poss Clearcut	4310 - Pine, Oak Mix ibly in open patches 4310 - Pine, Oak	Planting Record , when fundin	g and
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Com Site Prop 17 Press Spec Next Trea Acces Rege Othe Com Site Prop 17 Press Spec Next Trea Acces Rege Othe Com Othe Othe Othe Othe Othe Othe Othe Othe	imment: add to Condition: add to condition: add to 12173017-OW 12173017-OW cription Harves cs: Step step Mixed for the second secon	iong term s 10/01/20 3.8 st all trees 2 50% red/50 is available 10/01/20 16.9 st all trees 2 50% red/50	2" DBH and larger to 025 4123 - Red Oak 2" DBH and larger to 0% white pine with v res while planting to 025 4123 - Red Oak 2" DBH and larger to 0% white pine with v res while planting to	ude all app 8 5 prep site white oak n create a re 8 5 prep site white oak n	99 for mixed nix optior ed pine / 99 for mixed nix optior	111- 140 d pine pla n if availat white pine 111- 140 d pine pla	Harvest Harvest nting. ble during or after e mix. Plant white Harvest nting.	Ie. Clearcut r initial planting. e oak within, poss Clearcut r initial planting.	4310 - Pine, Oak Mix ibly in open patches 4310 - Pine, Oak	Planting Record	g and

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Report 3 -- Treatments



••									Year of Entry		191
	itment ame	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habi Cu
17 1217	3012-OW	14.6	4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	N
Prescription Specs:	<u>n</u> Harvest	to a 2" sp	ec to prep site for n	nixed pine p	planting.						
Next Step Treatments	<u>.</u>										
Acceptable Regen:	Mixed pi	ne with w	hite oak mix option	if available	during a	or after initi	al planting.				
<u>Other</u> Comment:		e tree box s available	es while planting to e.	create a re	ed pine /	white pine	mix. Plant white	e oak within, possi	bly in open patches	when fundin	g and
Site Condit	ion:										
Proposed S	Start Date:	10/01/20	025								
17 1217	3005-OW	8.4	4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	Ν
Prescription Specs:	<u>n</u> Harvest	all trees 2	2" DBH and larger to	o prep site f	for mixe	d pine plar	iting.				
<u>Vext Step</u> Treatments	<u>s:</u>										
Acceptable Regen:	Mixed pi	ne with w	hite oak mix option	if available	during o	or after initi	al planting.				
<u>Other</u> Comment:		e tree box s available	es while planting to	create a re	ed pine /	white pine	mix. Plant white	e oak within, possi	bly in open patches	when fundin	g and
Site Condit	ion:										
Proposed {	Start Date:	10/01/20)25								
17 1217	3049-OW	5.0	4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	Ν
	<u>n</u> Harvest	all trees 2	2" DBH and larger to	o prep site i	for mixed	d pine plar	iting.				
<u>Specs:</u> Next Step		all trees 2	2" DBH and larger to	o prep site f	for mixed	d pine plar	nting.				
<u>Specs:</u> <u>Next Step</u> Treatments Acceptable	<u>::</u>		" DBH and larger to ne/50% white with v				-	r initial planting.			
<u>Specs:</u> Next Step Treatments Acceptable Regen: Other	<u>s:</u> Mixed 50 Alternate	0% red pi	ne/50% white with v	vhite oak m	nix optior	n if availab	le during or afte		bly in open patches	when fundin	g and
<u>Specs:</u> <u>Next Step</u> <u>Treatments</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u>	 Mixed 50 Alternate source is)% red pil	ne/50% white with v	vhite oak m	nix optior	n if availab	le during or afte		bly in open patches	when fundin	g and
Specs: Next Step Treatments Acceptable Regen: Other Comment: Site Condit	 Mixed 50 Alternate source is)% red pir e tree box s available	ne/50% white with v es while planting to e.	vhite oak m	nix optior	n if availab	le during or afte		bly in open patches.	when fundin	g and
Specs: Next Step Treatments Acceptable Regen: Other Comment: Site Condit Proposed S	 Mixed 50 Alternate source is ion: 	0% red pir e tree box s available 10/01/20	ne/50% white with v es while planting to e.	vhite oak m create a re	nix optior ed pine /	n if availab	le during or afte		bly in open patches 4211 - Planted Red Pine	when fundin Planting Record	
Specs: Next Step Treatments Acceptable Regen: Other Comment: Site Condit Proposed S 13 1217 Prescription	 Mixed 50 Alternate source is ion: Start Date: 3013-OW 	0% red pir e tree box s available 10/01/20 5.3	ne/50% white with v es while planting to e. 025	vhite oak m create a re	nix option ed pine / 34	n if availab white pine 81-110	le during or afte mix. Plant white Harvest	e oak within, possi	4211 - Planted	Planting	
Specs: Next Step Treatments Acceptable Regen: Other Comment: Site Condit Proposed S 13 1217 Prescription Specs: Next Step	 <u>Si</u> Alternate source is source is <u>ion:</u> <u>Start Date:</u> <u>3013-OW</u> <u>harvest</u> 	0% red pir e tree box s available 10/01/20 5.3	ne/50% white with v es while planting to e. 025 4131 - Aspen, Oak	vhite oak m create a re	nix option ed pine / 34	n if availab white pine 81-110	le during or afte mix. Plant white Harvest	e oak within, possi	4211 - Planted	Planting	
Specs: Next Step Treatments Acceptable Regen: Other Comment: Site Condit Proposed S 13 1217 Prescription Specs: Next Step Treatments	 <u>Si</u> Alternate source is source is <u>ion:</u> <u>Start Date:</u> <u>3013-OW</u> <u>harvest</u> 	0% red pir e tree box s available 10/01/20 5.3 all trees 2	ne/50% white with v es while planting to e. 025 4131 - Aspen, Oak	vhite oak m create a re	nix option ed pine / 34	n if availab white pine 81-110	le during or afte mix. Plant white Harvest	e oak within, possi	4211 - Planted	Planting	g and
Specs: Next Step_ Treatments Acceptable Regen: Other Comment: Site Condit Proposed S 13 1217 Prescription Specs: Next Step_ Treatments Acceptable	 <u>Alternate</u> source is <u>ion:</u> <u>Start Date:</u> <u>3013-OW</u> <u>Harvest</u> <u>Start Parternate</u> 	0% red pir e tree box available 10/01/20 5.3 all trees 2	ne/50% white with v es while planting to e. 025 4131 - Aspen, Oak	vhite oak m create a re 9 o prep site f	nix optior ed pine / 34 for red p	h if availab white pine 81-110 ine plantin	le during or afte mix. Plant white Harvest g.	e oak within, possi	4211 - Planted	Planting	
Specs: Next Step Treatments Acceptable Regen: Other Comment: Site Condit Proposed S 13 1217 Prescription Specs: Next Step Treatments Acceptable Regen: Other	 Mixed 50 Alternate source is ion: Start Date: 3013-OW Harvest Red pine No reten 	0% red pir e tree box available 10/01/20 5.3 all trees 2	ne/50% white with v res while planting to 9. 025 4131 - Aspen, Oak 2" DBH and larger to	vhite oak m create a re 9 o prep site f	nix optior ed pine / 34 for red p	h if availab white pine 81-110 ine plantin	le during or afte mix. Plant white Harvest g.	e oak within, possi	4211 - Planted	Planting	

S t		Crystal Fall	s Mgt. Unit		Repoi	rt3 1	Freatments		Compartmen Year of Entry		OF NATURAL 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
17	12173059-OV	V 9.3	4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
Pres Spe		est all trees 2	2" DBH and larger to	o prep site f	or mixe	d pine plar	nting.				
	<u>t Step</u> atments:										
<u>Acc</u> Reg		l 50% red pi	ne/50% white with v	vhite oak m	ix optior	n if availab	le during or after	r initial planting.			
Othe Con		ate tree box e is available	kes while planting to e.	create a re	d pine /	white pine	mix. Plant white	e oak within, possi	bly in open patches	, when funding	g and
<u>Site</u>	Condition:										
<u>Prop</u>	bosed Start Dat	<u>e:</u> 10/01/20	025								
10	12173010-C0	27.8	4130 - Aspen	6	48	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
Pres Spe			antable trees excep erse mix of species.	t conifers a	nd oak t	to promote	e aspen regenera	ation. Retention sh	nould include large o	liameter, forke	ed crown
	<u>t Step</u> atments:										
<u>Acc</u> Reg		ombination	of the current overst	tory species	5.						
<u>Othe</u> Con	<u>er</u> hment:										
<u>Site</u>	Condition:										
<u>Prop</u>	bosed Start Dat	<u>e:</u> 10/01/20	031								
8	12173008-C	: 18.7	4130 - Aspen	6	48	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Pres</u> Spe			antable trees excep en, and a diverse m			-	to promote asp	en regeneration. I	Retention should inc		meter,
	<u>t Step</u> atments:										
		ombination	of the current overst	tory species	6.						
<u>Reg</u> Othe			usions are estimates	s hased off	of field	observatio	ns These areas	could change if d	letermined during tir	nher sale nrer	Include
			wilt specs for timbe			00301 14110					. molade
<u>Site</u>	Condition:										
Prop	bosed Start Dat	<u>e:</u> 10/01/20	031								
7	12173007-C	28.5	4130 - Aspen	6	47	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
Pres Spe			antable trees excep erse mix of species.	t conifers a	nd oak t	to promote	e aspen regenera	ation. Retention sł	nould include large o	liameter, forke	ed crown
<u>Spe</u> <u>Nex</u>				t conifers a	nd oak t	to promote	e aspen regenera	ation. Retention sh	nould include large c	liameter, forke	ed crown
<u>Spe</u> <u>Nex</u> <u>Trea</u>	<u>cs:</u> asper <u>t Step</u> atments: eptable Any c	n, and a dive				to promote	e aspen regenera	ation. Retention sł	nould include large o	liameter, fork	ed crown
Spe Nex Trea Acco Reg Othe	<u>cs:</u> asper <u>t Step</u> atments: eptable Any c en:	n, and a dive	erse mix of species.	tory species	5.	to promote	e aspen regenera	ation. Retention sł	nould include large o	liameter, fork	ed crown
<u>Spe</u> <u>Nex</u> <u>Trea</u> <u>Acc</u> <u>Reg</u> <u>Othe</u> <u>Con</u>	<u>cs:</u> asper <u>t Step</u> atments: eptable Any c en: er: Incluc	n, and a dive	erse mix of species.	tory species	5.	to promote	e aspen regenera	ation. Retention sł	nould include large o	liameter, fork	ed crown

S t		Cry	stal Fall	s Mgt. Unit		Repoi	rt3 1	Freatments		Compartmen Year of Entry		DNR
a n d	Treatr Nan		Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
6	121730	06-OW	5.4	4123 - Red Oak	9	99	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Pres</u> Spec		Harvest	all trees 2	2" DBH and larger to	o prep site f	or red p	ine plantin	ng.				
	<u>t Step</u> atments:											
<u>Acce</u> Rege	•	Red pine	9									
<u>Othe</u> Com	<u>er</u> hment:	No reten	tion due f	to forest health con	cerns. Inclue	de all ap	plicable o	ak wilt specs for	timber sale.			
<u>Site</u>	Conditio	<u>n:</u>										
<u>Prop</u>	oosed Sta	art Date:	10/01/20	025								
6	121730	06-Cut	20.5	4123 - Red Oak	9	99	111- 140	Harvest	Selection	4121 - Oak, Aspen	Cutting Record	No
<u>Spec</u>		canopy l future da	ight to rel image. C	pproximately 80 BA ease advanced reg reate approximately e forest health conc	eneration. In y five, 1/2 a	mprove cres gap	quality and os (1 per 1	d mark to retain 0 acres) to plant	healthier, stout bra t with white oak an	nched trees that w d white pine to incr	ill be more res ease diversity	istant to
	<u>t Step</u> atments:											
Acce Rege	<u>eptable</u> en:	Any com	bination of	of the current overs	tory species	s, includi	ing aspen	and maple.				
<u>Othe</u>	er			ere advanced rege							d to reflect sor	ne of the
	<u>nment:</u> Conditio		it may cha	ange if determined	auring timbe	er sale p	prep. Inclue	de all applicable	oak wilt specs for	timber sale.		
		art Date:	10/01/20	025								
4	12173	004-CC	10.3	4123 - Red Oak	9	99	171-	Harvest	Clearcut	4121 - Oak,	Cutting	No
Pres Spec		Harvest	all merch	antable deciduous t	trees. Leave	e all con	200 ifers. Exclu	ude patch along	the south containir	Aspen ng mature oak for le	Record	ition.
	<u>t Step</u> atments:											
Acce Rege		Any com	bination	of the current overs	tory species	S.						
	er	Include a										
Othe	nment:		all applica	ble oak wilt specs f	or timber sa	ale.						
<u>Othe</u> Com	<u>nment:</u> Conditio		all applica	ble oak wilt specs f	or timber sa	ale.						
<u>Othe</u> <u>Com</u> <u>Site</u>	Conditio			·	or timber sa	ale.						
Othe Com Site Prop	Conditio	<u>n:</u> art Date:		·	or timber sa	ale. 99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
Othe Com Site Prop 17	Conditio bosed Sta 121730 scription	n: art Date: 104-OW	10/01/20	025	8	99	140		Clearcut			No
Othe Com Site Prop 17 Press Spect	Conditio bosed Sta 121730 scription	n: art Date: 104-OW	10/01/20	025 4123 - Red Oak	8	99	140		Clearcut			No
Othe Com Site Prop 17 <u>Pres</u> Spec <u>Next</u> Trea	Conditio posed Sta 121730 scription cs: t Step atments: eptable	<u>n:</u> art Date: 004-OW Harvest	10/01/20 2.3 all trees 2	025 4123 - Red Oak	8 o prep site f	99 or white	140 e pine plan	ting.	Clearcut			No
Othe Com Site Prop 17 Press Spec Next Trea Acce Regu	Conditio posed Sta 121730 scription cs: t Step ttments: eptable en:	n: art Date: 004-OW Harvest White pir	10/01/20 2.3 all trees 2	025 4123 - Red Oak 2" DBH and larger to	8 o prep site f if available	99 or white during o	140 pine plan or after initi	ting. al planting.		Mix		No
Othe Com Site Prop 17 17 Press Spec Next Trea Accee Regu	Conditio posed Sta 121730 scription cs: t Step ttments: eptable en: en: er	<u>n:</u> art Date: 004-OW Harvest White pin Plant wh	10/01/20 2.3 all trees 2	025 4123 - Red Oak 2" DBH and larger to hite oak mix option	8 o prep site f if available	99 or white during o	140 pine plan or after initi	ting. al planting.		Mix		No

Report 3 Treatments



		Cr	ystal Falls	s Mgt. Unit		Repor	t3 ⁻	Treatments		Compartmer	nt: 173	AL OF NATURAL PR
S t										Year of Entr	y: 2027	DNR DNR
a n d	Treatr Nan		Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
45	121730)45-CC	19.9	4130 - Aspen	6	48	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
Preso Spec				antable trees except en, and a diverse mi			ne and oal	k to promote asp	pen regeneration. R	etention should in	clude large di	ameter,
<u>Next</u> Treat	<u>Step</u> ments:											
<u>Acce</u> Rege		Any cor	mbination o	of the current overst	ory specie	6.						
<u>Other</u> Com	<u>r</u> ment:	Recom	mend sale	prep during leaf off	. Include a	ll applica	ble oak w	rilt specs for timb	er sale.			
<u>Site (</u>	Conditio	<u>n:</u>										
Propo	osed Sta	art Date:	10/01/20)26								
94	121730	94-Cut	1.5	4123 - Red Oak	9	99	111- 140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	No
<u>Preso</u> Spec		Harves	t all merch	antable trees except	t conifers.							
<u>Next</u> <u>Treat</u>	<u>Step</u> ments:	Monitor	ing, Natura	al Regen (Re-Invent	ory)							
<u>Acce</u> Rege	•	Any cor	mbination o	of the current overst	ory specie	5.						
<u>Other</u> Comr	<u>r</u> ment:			uffer of young mixe vill be left. Include al				en, to slow and/	or stop spread of a	djacent undergrou	nd oak wilt inf	ection. No
<u>Site C</u>	Conditio	<u>n:</u>										
Propo	osed Sta	art Date:	10/01/20)26								
92	121730	92-Cut	7.7 4	125 - Black, N. Pin Oak	6	99	111- 140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Cutting Record	No
<u>Spec</u>	<u>s:</u>			antable trees except bak or long term rete	• •	•				e current desirable	advanced re	generation.
-	ments:											
Acce Rege		Any cor	mbination of	of the current overst	ory specie	S.						
<u>Other</u> Com	<u>r</u> ment:	Use ca	ution to not	t damage current sa	plings duri	ng timbe	r sale ope	erations. Include	all applicable oak v	vilt specs for timbe	er sale.	
	Conditio											
Prop	osed Sta	art Date:	10/01/20)25								
89	121730	89-Cut	13.5	4123 - Red Oak	9	99	141- 170	Harvest	Clearcut	4121 - Oak, Aspen	Planting Record	No
Preso Spec	<u>cription</u> s:			antable trees except sent to create a mo							aspen and m	ixed
<u>Next</u> Treat	<u>Step</u> ments:											
<u>Acce</u> <u>Rege</u>		Any Co	mbination	of the current overst	tory specie	S.						
<u>Other</u> Comr	<u>r</u> ment:	Treatm	ent layer is	an estimate and m	ay change	. Include	all applic	able oak wilt spe	cs for timber sale.			
<u>Site C</u>	Conditio	<u>n:</u>										
Prop	osed Sta	art Date:	10/01/20)25								

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Report 3 -- Treatments



S t		or your ru			Nepol		reatments		Year of Entr		DNR MICHICAN
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
75	12173075-C	it 7.5	4123 - Red Oak	9	99	111- 140	Harvest	Seed Tree	4319 - Mixed Upland Forest	Cutting Record	No
<u>Spec</u> Next	<u>s:</u> Step	est all merc	hantable trees excep	ot conifers.	Do not le	eave any i	nterior oak trees	or retention.			
		ombinatior	of the current overst	tory species	S.						
Othe		ng-term ret	ention due to interior	and/or adja	acent fo	rest health	o concerns. Inclue	de all applicable o	ak wilt specs for tin	nber sale.	
Site (Condition:										
Prop	osed Start Da	<u>e:</u> 10/01/2	2026								
72	12173072-C	C 15.4	4130 - Aspen	6	47	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
Preso Spec			hantable trees excep erse mix of species.	ot conifers a	and oak t	to promote	e aspen regenera	ation. Retention sh	nould include large	diameter, fork	ed crown
	<u>Step</u> ments:										
Rege	<u>en:</u>		of the current overst								
	<u>ment:</u>	le all applic	able oak wilt specs fo	or timber sa	ale.						
	Condition:										
Prop	osed Start Da	<u>e:</u> 10/01/2	2025								
17	12173037-0	V 5.7	4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
Prese Spec		est all trees	2" DBH and larger to	o prep site t	for mixe	d pine pla	nting.				
<u>Next</u> Treat	<u>Step</u> ments:										
Rege	<u>en:</u>		bine/50% white with v				Ū	1 0			
	<u>ment:</u> sourc	ate tree bo e is availat	oxes while planting to le.	create a re	ed pine /	white pine	e mix. Plant white	e oak within, possil	bly in open patches	, when fundir	ig and
	Condition:	4.0.10.4.1	2005								
Prop	osed Start Da										
51	12173051-C			6	44	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	. No
<u>Spec</u> Next	<u>s:</u> aspe <u>Step</u>		hantable trees excep rerse mix of species.								
Acce		ombinatior	of the current overst	tory species	S.						
<u>Rege</u> Othe	<u> </u>		the Brule River is an Include all applicable					ge if determined d	uring timber sale pi	ep but will sti	I hold the
							- 1				
Com	Condition:										
Com Site (Condition: osed Start Da	e: 10/04 <i>1</i>	2026								

Report 3 -- Treatments



S t		,			nopol		rreatments		Year of Entr		
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habit Cut
	12173097-CC	4.8	4130 - Aspen antable trees excep	6	46 and oak t	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	N
Specs Next S Treatr	<u>s:</u> Step_					to promot	e aspen regenen				
<u>Accep</u> <u>Reger</u> Other	<u>n:</u>		of the current overs			70					
Comn					510110 512	26.					
	condition:										
	sed Start Date	-									
41	12173041-CC	3.9	4130 - Aspen	6	48	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	N
<u>Presc</u> Specs		t all merch	antable trees excep	ot conifers a	and oak t	to promot	e aspen regenera	ation.			
<u>Next S</u> Treatr	<u>Step</u> nents:										
Accep Reger		mbination of	of the current overs	tory species	S.						
Other Comn	No long	g term rete	ntion due to small s	stand size.							
	condition:										
	sed Start Date	<u>:</u> 10/01/20)25								
38	12173038-CC	8.4	4130 - Aspen	6	47	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	N
Presc Specs		t all merch	antable trees excep	ot conifers a	ind oak t	to promot	e aspen regenera	ation.			
<u>Next S</u> Treatr	<u>Step</u> nents:										
<u>Accep</u> <u>Reger</u>		mbination o	of the current overs	tory species	S.						
<u>Other</u> Comn		g-term rete	ntion due to small s	size. Include	all appl	licable oal	< wilt specs for tir	mber sale.			
	condition:										
-	sed Start Date										
32	12173032-CC	6.9	4130 - Aspen	6	48	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	N
Presc Specs		t all merch	antable trees excep	ot conifers a	and oak t	to promot	e aspen regenera	ation.			
<u>Next S</u> Treatr	<u>Step</u> nents:										
	table Anv co	mbination o	of the current overs	tory species	S.						
Accep Reger											
	<u>n:</u> No rete		o small size. Includ	le all applica	able oak	wilt spec	s for timber sale.				
Reger Other Comn	<u>n:</u> No rete		o small size. Includ	le all applica	able oak	wilt spec	s for timber sale.				

Report 3 -- Treatments

Compartment: 173



s Year of Entry: 2027 t а Treatment Stand Size Stand BA Treatment Treatment **Cover Type** Acres Age Habitat n Method Objective Name CoverType Density Age Range Type Structure Cut d 25 12173025 59.0 42110 - Planted Red 6 62 141 Harvest Thinning 4211 - Planted Planting No Pine Red Pine Record Selection 170 Prescription Mark stand to average 120 BA. Focus on improving quality and removing suppressed trees. Exclude more open areas that contain dense aspen Specs: saplings from past harvest. Leave all oak and white pine. Next Step Treatments: Acceptable Red pine Regen: Other Some areas are not dense enough to be thinned at this time. Either exclude less dense areas if on an edge, avoid marking in, or lightly thin if Comment: needed. Include all applicable oak wilt specs for timber sale. Site Condition: Proposed Start Date: 10/01/2026 12173078-OW 4123 - Red Oak 8 99 111-Harvest Clearcut 4310 - Pine, Oak Planting No 17 2.7 140 Mix Record Prescription Harvest all trees 2" DBH and larger to prep site for mixed pine planting. Specs: Next Step Treatments: Acceptable Mixed 50% red pine/50% white with white oak mix option if available during or after initial planting. Regen: Other Plant white pine. Plant white oak within, possibly in open patches, when funding and source is available. Comment: Site Condition: Proposed Start Date: 10/01/2025 4310 - Pine, Oak 17 12173075-OW 6.8 4123 - Red Oak 8 99 111-Clearcut Planting No Harvest Record 140 Mix Prescription Harvest all trees 2" DBH and larger to prep site for mixed pine planting. If available, exclude patches with pure aspen saplings to retain for Specs: diversity. Next Step Treatments: Acceptable Mixed 50% red pine/50% white with white oak mix option if available during or after initial planting. Regen: Other Alternate tree boxes while planting to create a red pine / white pine mix. Plant white oak within, possibly in open patches, when funding and source is available. Comment: Site Condition: Proposed Start Date: 10/01/2025 2.0 42110 - Planted Red 171-4211 - Planted Planting 69 12173069-6 42 Harvest No Thinning RowThin Pine 200 Red Pine Record Prescription Mark red pine to harvest approximately 1/3 of the stand creating rows as needed for operability. Specs: Next Step Treatments: Acceptable Red pine Regen: Rows may be narrow or non-existent. Mark rows for operability. Include all applicable oak wilt specs for timber sale. Other Comment: Site Condition: Proposed Start Date: 10/01/2025

S t	(Crystal Falls	s Mgt. Unit		Repor	rt3 '	Treatments		Compartme Year of Entr		DRR MATURAL PRODUCTS
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Total Treatment 424.2 Acreage Proposed:

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Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Eric Brolin: Examiner

Compartment: 173 Year of Entry: 2027



Availability for Management

Total	Acres	Acres Avail	Acres		Domina	nt Site	e Con	dition	S	
Acres	Available	With Condition	Not Available		5C	2F	2G	3J	3L	5E
736	658	0	78	Aspen		36	1	37		3
49	49	0	0	Cedar						
16	0	0	16	Lowland Conifers			16			
57	14	0	43	Lowland Deciduous			9	34		
14	14	0	0	Lowland Mixed Forest						
9	9	0	0	Mixed Upland Deciduous						
320	257	50	13	Oak	50				7	6
176	151	25	0	Red Pine	25					
17	1	17	0	Upland Mixed Forest	17					
62	62	0	0	Urban						
20	20	0	0	Water						
1,475	1,234	91	150	Total Forested Acres	91	36	26	71	7	9
	84%	6%	10%	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.	e Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments: Flooded drainage w	ith black ash and alder. Long	g term re	tention for Stand 38.			
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Long term retention	patch for Stand 12.					
3	Unavailable	2F: Too steep	13	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Long steep inoperal	ole slopes and/or low, poorly	drained	ground at the bottom of the	slopes.		

	_	l Falls Mgt. Unit Brolin: Examiner		Report 4 – Site Co	nditions	Compartment: 173 Year of Entry: 2027	DU MATURAT NE DUCHIGAN	
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: Allow younger age	class to grow larger.						
5	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: _ong term retentior	n for Stand 15. Patches seem he	ealthy	yet except the far north bu	bble which is riddled with de	ead oak.		
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: _ong term retentior	n for Stand 40. Pockets contain	patche	es of dead oak.				
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: _ong term retentior	n for Stand 23. Contains 3 matu	re oak	pockets. All are healthy e	xcept for one dead oak tree	in the NE bubble.		
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: _ong term retentior	n for Stand 4. Contains dense a	dvance	ed regen with some scatte	red mature oak.			
9	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	2G: Too wet (sensitive soils, does not include access issues)	5E: Long-Term Retention	Unspecified	Unspecified	
	Comments: 100' river buffer for	Brule River, poorly drained gro	und, a	nd long term retention for	stand 36.			
10	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	5E: Long-Term Retention	n Unspecified	Unspecified	Unspecified	
	Comments: 100' river buffer an	d long term retention for Stand	27.					

	-	al Falls Mgt. Unit Brolin: Examiner		Report 4 – Site Co	nditions	Compartment: 173 Year of Entry: 2027	ATT NATURE OF	
11	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	4	5E: Long-Term Retention	n Unspecified	Unspecified	Unspecified	
	Comments: Low drainage ravir	ne with poorly drained ground. L	.ong te	rm retention for Stand 9.				
12	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	2F: Too steep	5E: Long-Term Retention	Unspecified	Unspecified	
	Comments: Steep slope in are	as along the Brule River and 10	0' river	buffer. Long term retentio	on for Stand 51.			
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: Stand was thinned	in 2020.						
14	Unavailable	2F: Too steep	24	3J: Water quality/BMPs (stream, river, or lake)	5E: Long-Term Retention	Unspecified	Unspecified	
	Comments:	on for 100' river buffer and inope		(stream, river, or lake)				
	Comments: Estimated exclusio	on for 100' river buffer and inope		(stream, river, or lake)			·	
15	Comments: Estimated exclusic least a 100' river b Available Comments:	on for 100' river buffer and inope uffer. 5C: Delay treatment for age/size class diversity or	erable s	(stream, river, or lake) slopes. Long term retention Unspecified	n for Stand 55. This may cha	ange during future manageme	nt but will hold at	
15	Comments: Estimated exclusic least a 100' river b Available Comments:	on for 100' river buffer and inope uffer. 5C: Delay treatment for age/size class diversity or exceptional site quality	erable s	(stream, river, or lake) slopes. Long term retention Unspecified	n for Stand 55. This may cha	ange during future manageme	nt but will hold at	

Report 4 – Site Conditions

Compartment: 173

Year of Entry: 2027



Eric Brolin: Examiner

Crystal Falls Mgt. Unit

17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:	ink alayestica kunna. Deat of load		tention for Oten d 75			
	realthy oak on a h	igh elevation hump. Part of long	g term re	tention for Stand 75.			
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Long term retentior	n for Stand 3 containing mature	oak and	surrounded by dense asp	en stocking.		
19	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Long term retentior	n for Stand 4. Patch that recentl	y had all	species thinned out exce	pt for oak.		
20	Available	5C: Delay treatment for age/size class diversity or	8	Unspecified	Unspecified	Unspecified	Unspecified
		exceptional site quality					
	Comments: Areas that will be e	exceptional site quality	. Contair	ns sparser oak canopy wit	h better growing conditior	ns for advanced regenerat	ion.
1		<u> </u>	. Contair 7	ns sparser oak canopy wit Unspecified	h better growing conditior Unspecified	ns for advanced regenerat Unspecified	ion. Unspecified
, 21 (Areas that will be e Unavailable Comments:	excluded from thinning this YOE 3L: Other wildlife					
21 (Areas that will be e Unavailable Comments:	excluded from thinning this YOE 3L: Other wildlife concerns					
21	Areas that will be e Unavailable Comments: Retain mature oak Unavailable Comments:	excluded from thinning this YOE 3L: Other wildlife concerns on the landscape for wildlife.	7	Unspecified	Unspecified	Unspecified	Unspecified
21	Areas that will be e Unavailable Comments: Retain mature oak Unavailable Comments:	excluded from thinning this YOE 3L: Other wildlife concerns on the landscape for wildlife. 5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
221 () () () () () () () () () () () () ()	Areas that will be e Unavailable Comments: Retain mature oak Unavailable Comments: Hemlock slope left Unavailable	excluded from thinning this YOE 3L: Other wildlife concerns on the landscape for wildlife. 5E: Long-Term Retention as long term retention and hem 2G: Too wet (sensitive soils, does not include	7 1 Ilock prot	Unspecified Unspecified tection for Stand 59. 3L: Other wildlife	Unspecified	Unspecified	Unspecified Unspecified

-	-		Report 4 – Site Cond	itions	Compartment: 173 Year of Entry: 2027	DI NATURA	
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified	
	saturated ground and black as	h borde	ering the Brule River.				
Unavailable	3J: Water quality/BMPs (stream, river, or lake)	34	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	Unspecified	Unspecified	
	oodplain flats with black ash an	d cedar	along the Brule River. Steep	o, long slope along RR g	rade trail to the stand with no	good access.	
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified	
	und with cedar and sparse, dec	lining s	tocking of conifer and alder.				
Unavailable	3J: Water quality/BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified	
	ream buffer, there is approxima	ately 1/2	2 acre in the center that can b	be managed.			
				Unspecified	Unspecified		
	Eric I Unavailable Comments: Flat floodplain with Unavailable Comments: Mostly saturated flo Unavailable Comments: Very saturated grou Unavailable Comments:	soils, does not include access issues) Comments: Flat floodplain with saturated ground and black as Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Mostly saturated floodplain flats with black ash an Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: Very saturated ground with cedar and sparse, dec Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments:	Eric Brolin: Examiner Unavailable 2G: Too wet (sensitive soils, does not include access issues) 9 Comments: Flat floodplain with saturated ground and black ash border Unavailable 3J: Water quality/BMPs 34 Unavailable 3J: Water quality/BMPs 34 Comments: 34 Mostly saturated floodplain flats with black ash and cedar Unavailable 2G: Too wet (sensitive 6 soils, does not include access issues) Comments: Very saturated ground with cedar and sparse, declining s Unavailable 3J: Water quality/BMPs 10 (stream, river, or lake) Comments: Very saturated ground with cedar and sparse, declining s Unavailable 3J: Water quality/BMPs 10 (stream, river, or lake) Comments:	Crystal Falls Mgt. Unit Eric Brolin: Examiner Unavailable 2G: Too wet (sensitive soils, does not include access issues) 9 3J: Water quality/BMPs (stream, river, or lake) Comments: Flat floodplain with saturated ground and black ash bordering the Brule River. Unavailable 3J: Water quality/BMPs (stream, river, or lake) 34 2G: Too wet (sensitive soils, does not include access issues) Comments: 34 2G: Too wet (sensitive soils, does not include access issues) Comments: Mostly saturated floodplain flats with black ash and cedar along the Brule River. Steep soils, does not include access issues) Comments: 0 Unspecified unspecified access issues) Comments: 0 Unspecified access issues) Comments: 10 Unspecified unspecified access issues) Comments: 3J: Water quality/BMPs 10 Unspecified unspecified (stream, river, or lake) Comments: 10 Unspecified (stream, river, or lake)	Crystal Falls Mgt. Unit Eric Brolin: Examiner Unavailable 2G: Too wet (sensitive soils, does not include access issues) 9 3J: Water quality/BMPs (stream, river, or lake) Unspecified Comments: Flat floodplain with saturated ground and black ash bordering the Brule River. Unavailable 3J: Water quality/BMPs (stream, river, or lake) 34 2G: Too wet (sensitive soils, does not include access issues) 2F: Too steep Comments: Mostly saturated floodplain flats with black ash and cedar along the Brule River. Steep, long slope along RR g Unspecified Unspecified Unavailable 2G: Too wet (sensitive soils, does not include access issues) 0 Unspecified Unspecified Comments: Very saturated ground with cedar and sparse, declining stocking of conifer and alder. Unspecified Unspecified Unavailable 3J: Water quality/BMPs (stream, river, or lake) 10 Unspecified Unspecified Comments: Very saturated ground with cedar and sparse, declining stocking of conifer and alder. Unspecified Unspecified Comments: 3J: Water quality/BMPs (stream, river, or lake) 10 Unspecified Unspecified Comments: Unspecified Unspecified Unspecified Unspecified Unspecified Unspe	Crystal Falls Mgt. Unit Compartment: 173 Year of Entry: 2027 Unavailable 2G: Too wet (sensitive soils, does not include access issues) 9 3.J: Water quality/BMPs (stream, river, or lake) Unspecified Unspecified Comments: Flat floodplain with saturated ground and black ash bordering the Brule River. Unavailable 3.J: Water quality/BMPs (stream, river, or lake) 2F: Too steep Unspecified Unavailable 3.J: Water quality/BMPs (stream, river, or lake) 34 2G: Too wet (sensitive soils, does not include access issues) 2F: Too steep Unspecified Comments: Unavailable 3.J: Water quality/BMPs (stream, river, or lake) 34 2G: Too wet (sensitive soils, does not include access issues) 2F: Too steep Unspecified Unavailable 2.G: Too wet (sensitive soils, does not include access issues) 2F: Too steep, long slope along RR grade trail to the stand with no entry soils, does not include access issues) Unspecified Unspecified Comments: 2.G: Too wet (sensitive soils, does not include access issues) 6 Unspecified Unspecified Unspecified Comments: 2.G: Too wet (sensitive soils, does not include access issues) 10 Unspecified Unspecified Unspecified Very saturated ground with cedar and sparse, declining stocking of c	

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

Compartment: 173

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	Crystal Falls Mgt. Unit						Repo	ort 7 – Sta	ands	Compartment: 173 Year of Entry: 2027	
Stan	d Level 4 C	over Type		Size De	ensity	Acres Stand Age BA Range Managed Site		e	General Comments		
1	4130 - Aspen		F	Poletimb	er Well	14.4	25	1-50	N/A		Dense aspen stand transitioning to pole sized trees with some mature
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	oak speckled within. More bigtooth in the south half and quaking in the north half.
	White Pine	1		18			d Maple	High	Variable	Variable	
	Red Oak	5		13	99		e Spruce	Low	Variable	Variable	
	Paper Birch	1	Pole	3		Wh	ite Pine	Low	Variable	Variable	
	Bigtooth Aspen	63	Sapling	5	25						
	Quaking Aspen	30	Pole	4	25						
2	4130	- Aspen	F	Poletimb	er Well	15.2	33	mmature	N/A		Dense aspen, small pole sized trees. Oak and a few mature pine are
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	scattered within.
	White Pine	1		18		Whit	e Spruce	Low	Variable	Variable	
	Quaking Aspen	15	Sapling	6	33	Re	d Maple	Medium	Variable	Variable	
	Red Maple	3	Sapling	5	33						_
	Paper Birch	2	Sapling	6							
	Bigtooth Aspen	73	Sapling	7	33						
	Red Oak	5		13	99						
	White Spruce	1	Seedling	8							
3	4131 - A	Aspen, Oak	F	Poletimb	er Well	22.4	46	111-140	N/A		Aspen pole stand. There is a fair amount of mature oak scattered
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	across the stand. Oak is scattered enough to not have continuous spread from oak wilt in most areas. There are a couple of spreading
	White Pine	2		22		Re	d Maple	Low	Variable	Variable	dead oak patches in the SE corner and the NW corner. The SE patch
	Red Maple	3	Sapling	7	46	Bal	sam Fir	Low	Variable	Variable	has oak density to continue spreading. The NW patch has less oak
	Paper Birch	2		8		Wh	ite Pine	Low	Variable	Variable	density and should slow/stop with more species diversity. A couple of drainage ravines run N/S across the stand and will probably need to be
	Bigtooth Aspen	38	Seedling	8	46			·	· · · ·		excluded from future management.
	Quaking Aspen	30	Seedling	7	46						
	Red Oak	25		14	99						
4	4123 -	Red Oak	S	Sawtimb	er Well	49.4	99	171-200	N/A		Very dense oak stand over 200 BA in a lot of areas. Average small log
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	size trees with natural mortality occurring due to being severely suppressed. A few small visible dead oak patches were investigated in
	White Pine	2		20		Wh	ite Pine	Low	Variable	Variable	the field and appear to be natural mortality with no spread occurring.
	Red Oak	85		13	99	Re	d Maple	Low	Variable	Variable	More aspen mixed in the west 1/3 turning to nearly solid oak in the east
	Red Maple	3	Seedling	8		Re	d Maple	Medium	Variable	Variable	2/3. Very small areas were harvested in 2021 in the SW corner and the far east edge that contain some young regen but also denser oak
	Paper Birch	1	Seedling	8							canopies. Moderate rolling terrain in areas.
	Bigtooth Aspen	9		12	99						
5	4123 -	Red Oak	Sa	wtimbe	r Medium	า 12.1	99	81-110	N/A		Dense oak patches with some small young aspen areas mixed in.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Numerous, aggressive spreading dead oak patches within stand.
	Red Oak	100		12	99	Quak	ing Aspen	High	Variable	Variable	
						Re	d Maple	Medium	Variable	Variable	

Report 7 – Stands



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed Sit	te	General Comments
6	4123 -	Red Oak	5	Sawtimbe	er Well	63.7	99	111-140	N/A		This is the healthiest oak stand in this Compartment. Stand has been
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	managed in the past with oak being thinned. Oak is healthier with mo stout branches and larger diameter trees compared to other unmanaged.
	Bigtooth Aspen	1		15		Quak	ing Aspen	Low	Variable	Variable	stands. Oak canopy is closed across a majority of the stand averagin
	White Pine	3		20		Re	d Maple	High	Variable	Variable	110-120 BA+ across oak areas. Understory has maple and aspen
	Red Oak	94		13	99	Bigto	oth Aspen	Medium	Variable	Variable	saplings from last harvest. Aspen is doing well with smaller gaps acro the stand but is barely holding on with the limited sunlight. No signs o
	Hemlock	1		13							dead oak except along the south edge. Spreading dead oak along th
	Red Pine	1		20							south private line from adjacent past harvest. Adjacent private landowner along the south edge clearcut during peak oak wilt seasor
											to the state land border. Significant new mortality and spread along the line is anticipated in the coming years. Oak stocking is dense enough continuous spread across the entire stand. OPIC - FMD: Shelterwood cut to 50' BA oak retention. Summer cut f scarification (after July 15). (2006) Shelterwood cut in 2010. Everything removed but oak and pine. (2010)
7	4130	- Aspen	F	Poletimbe	er Well	63.6	47	111-140	N/A		Good quality aspen pole stand. Mature scattered oak and pine mixed
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	\square mainly in the NW half of the stand. More fir and hazel in the understo
	Quaking Aspen	70	Seedling	8	47	Bal	sam Fir	Low	Variable	Variable	regeneration. Lower patch of ground in the NE may have to be exclu
	Red Oak	7		13	99	Whit	e Spruce	Low	Variable	Variable	from future management. Retain the W/NW half of the stand to creater more aspen age class diversity in the area.
	White Pine	6		18		Wh	ite Pine	Low	Variable	Variable	more aspen age class diversity in the area.
	Red Maple	5	Sapling	7	47						
	Paper Birch	2	Sapling	7							
	Bigtooth Aspen	10	Seedling	9	47						
8	4130	- Aspen	F	Poletimbe	er Well	50.9	48	111-140	N/A		Good quality mixed aspen poles. Scattered mature oak and pine fou
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	across the stand. Fingers and areas along the north have steep slope down to low ground flats. A fair amount may need to be excluded fro
	Quaking Aspen	52	Seedling	8	48	Re	d Maple	Low	Variable	Variable	future management for operations and BMP's. Some areas have be
	Red Oak	5		14	99	Re	ed Oak	Low	< 5 feet	< 5 feet	oak and pine seedlings present.
	Red Maple	5	Sapling	7		Bal	sam Fir	Low	Variable	Variable	
	Bigtooth Aspen	30	Seedling	8	48	Wh	ite Pine	Low	< 5 feet	< 5 feet	
	White Pine	5		14							
	Red Pine	3		14							
9	4130	- Aspen	F	Poletimb	er Well	30.5	25	1-50	N/A		Young mixed aspen stand transitioning to pole sized trees. Stand is
-	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	heavy to bigtooth with scattered oak and some pine mixed in. A lowe ravine along the NW should be excluded from future management. A
	Quaking Aspen	8	Pole	4	25	Re	d Maple	Medium	Variable	Variable	large rock outcrop in the north was excluded during the last harvest b
	White Pine	5		15		Re	ed Oak	Low	Variable	Variable	some of this may be included in future management.
	Red Oak	8		13	99						
	Red Maple	2	Pole	3							
	Bigtooth Aspen	75	Sapling	5	25						
	Red Pine	2		15							

Report 7 – Stands

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Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed Sit	e	General Comments
10	4130	- Aspen		Poletimb	er Well	27.8	48	111-140	N/A		Good quality aspen pole stand with mainly quaking aspen. Fairly open \neg understory across most of the area. Some oak is mixed in, mainly in the
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	west. Very few scattered conifer within.
	Bigtooth Aspen	7	Seedling	9	48	Re	d Maple	Low	Variable	Variable	· ·
	Quaking Aspen	85	Seedling	8	48	R	ed Oak	Trace	Variable	Variable	
	Red Oak	6		13	99	Whi	te Spruce	Trace	Variable	Variable	
	Red Pine	1		18							
	White Pine	1		15	99						
11	4130	- Aspen		Poletimb	er Well	35.0	23 I	mmature	N/A		Dense aspen stand transitioning to pole sized trees. Scattered mature
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	oak and white pine within.
	Quaking Aspen	15	Sapling	5	23	Re	d Maple	Medium	Variable	Variable	
	Red Maple	7	Pole	3		R	ed Oak	Trace	Variable	Variable	
	Bigtooth Aspen	64	Sapling	5	23						<u> </u>
	White Pine	2		22							
	Red Oak	12		14	99						
12	4123 -	Red Oak	:	Sawtimb	er Well	34.8	99	171-200	N/A		Good quality oak but extremely suppressed averaging smaller
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	diamaeter, larger pole to small sawlog range. Most areas are reaching up to 200BA for stocking. Some small clones of large, very mature
	Quaking Aspen	3		11		Re	d Maple	Medium	Variable	Variable	aspen is mixed in as well as some red maple and birch poles. Significar
	Red Oak	80		10	99	Pa	per Birch	Low	Variable	Variable	amount of spreading dead oak patches along the SE edge from past
	Red Pine	2		17							diadacent timber sale. Area north of the road also has numerous spreading dead oak patches. Adjacent private landowner along the
	Red Maple	3	Sapling	7							south edge clearcut during peak oak wilt season up to the state land
	Paper Birch	7	Seedling	8							border. Significant new mortality and spread along the line is anticipate
	Bigtooth Aspen	5		12							in the coming years. Oak stocking is dense enough for continuous spread across the entire stand.
13	4131 - <i>A</i>	Aspen, Oak	:	Sawtimb	er Well	48.8	34	81-110	N/A		Areas dense to younger aspen poles, otherwise oak log canopy.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Spreading dead oak along the south private line from adjacent past harvest. Adjacent private landowner along the south edge clearcut
	White Pine	1		22		Re	d Maple	High	Variable	Variable	during peak oak wilt season up to the state land border. Significant new
	Quaking Aspen	18	Sapling	6	34	Bigto	oth Aspen	Low	Variable	Variable	mortality and spread along the line is anticipated in the coming years.
	Red Pine	1		22					I		Oak stocking is dense enough for continuous spread across the entire stand.
	Red Maple	3	Sapling	5							Stand.
	Paper Birch	2	Sapling	5							
	Bigtooth Aspen	25	Seedling	6	34						
	Red Oak	50		14	99						
14	4123 -	Red Oak	:	Sawtimb	er Well	23.0	99	141-170	N/A		Cut in 2021. Everything except oak was removed leaving a solid canop
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of red oak which is still very dense. Aspen regen present in some of the understory will not succeed with current canopy conditions. Stand is
	Red Pine	3		18		Re	d Maple	Medium	Variable	Variable	absolutely obliterated with aggressive spreading dead oak patches.
	White Pine	2		18		Bigto	oth Aspen	Low	Variable	Variable	
	Red Oak	95		13	99						—

Report 7 – Stands

Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	A Range	Managed S	ite	General Comments
15	4130	- Aspen		Sapling	Well	58.4	5	Immature	N/A		Dense aspen saplings solid to bigtooth. Scattered mixed pine, mature
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	oak found in the south 1/3, and scattered retention patches. Retention patches are all healthy except for the far NW one which has numerous
	Red Pine	4		8		Re	ed Maple	Medium	Variable	Variable	dead oak spreading.
	Red Oak	8		12		R	ed Oak	Medium	< 5 feet	< 5 feet	
	White Pine	3		8		W	hite Pine	Low	Variable	Variable	
	Red Maple	4	Log	1				·			_
	Bigtooth Aspen	81	Log	1	5						
16	4130	- Aspen		Poletimb	er Well	21.4	36	51-80	N/A		Aspen and maple mix with scattered mature oak and pine within. Aspen
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	is heavy to quaking with more of the bigtooth in the east half. Mix of red maple is good quality, tall and straight but just under merchantable size
	Quaking Aspen	45	Sapling	5	36	Re	ed Maple	High	Variable	Variable	yet.
	Red Oak	5		13	99	W	hite Pine	Low	Variable	Variable	
	White Pine	3		10		R	ed Oak	Low	Variable	Variable	
	Northern Pin Oak	3		9							-
	Red Pine	2		10	99						
	Red Maple	10	Sapling	6							
	Paper Birch	2	Sapling	7							
	Bigtooth Aspen	30	Sapling	6	36						
17	4123 -	Red Oak	Si	awtimbei	Mediun	n 10.9	99	111-140	N/A		red oak logs. patches of alien pipes that succeeded with gaps. dead oal \neg patchpine seedlings not very dense but healthy and scattered across
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	entire underskirt
	Bigtooth Aspen	17	Pole	4	37	W	hite Pine	Low	< 5 feet	< 5 feet	
	Red Pine	2		16	99	Re	ed Maple	High	Variable	Variable	
	White Pine	1		20		Bigto	ooth Aspen	Low	>20 feet	>20 feet	
	Red Oak	80		13	99	R	ed Pine	Low	< 5 feet	< 5 feet	
18	4130	- Aspen		Sapling	Well	14.4	4	Immature	N/A		Cut in 2021. Dense aspen saplings with a couple of interior retention patches.
	Canopy Species	% Cover	Size Class	DBH	Age						patches.
	Quaking Aspen	10	Log	1	4						
	Red Oak	10	Log	1							
	Red Maple	5	Log	1							
	Bigtooth Aspen	75	Log	1	4						
19	4123 -	Red Oak		Sawtimb	er Well	19.0	99	111-140	N/A		Red oak log canopy with patchy dense areas of aspen. Dense red \neg maple sapling understory across much of the stand. One dead oak
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	patch found in the SW was inspected, it appears to have stopped
	Bigtooth Aspen	17	Pole	4	37	R	ed Pine	Low	< 5 feet	< 5 feet	spreading with a light enough oak canopy and more diverse mix of
				10	00	۱۸/	hite Dine	Low	< 5 feet	< 5 feet	maturing aspen and maple.
	Red Oak	80		13	99	V V	hite Pine	LOW	< 0 1000	< 0 1001	
	Red Oak White Pine	80		13 20	99		ed Maple	High	Variable	Variable	

Report 7 – Stands

Compartment: 173 Year of Entry: 2027

V.

Stan	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	A Range	Managed Sit	te	General Comments
20	4130	- Aspen		Sapling	, Well	23.4	5	Immature	N/A		Dense aspen saplings. A few mature oak patches were left for retention.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	Patches of retention look to be healthy at this time.
	Quaking Aspen	15	Log	1		Re	d Pine	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	5	Log	1							-
	Bigtooth Aspen	70	Log	1	5						
	Red Oak	10	Log	1							
21	4130	- Aspen	I	Poletimb	er Well	17.0	48	111-140	N/A		Quaking aspen pole stand with mix of mature red oak and pine. More
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	opy Species	Density	Avg. Height	Size	oak in the north half.
	Red Maple	3	Sapling	5		Blac	k Cherry	Low	Variable	Variable	
	Quaking Aspen	80	Seedling	8	48	Re	d Pine	Low	Variable	Variable	
	Red Pine	5		13		Red	d Maple	Low	Variable	Variable	
	Red Oak	12		12							-
22	4311 - Pin	e, Aspen M	ix :	Sawtimb	er Well	16.5	99	81-110	N/A		Good diverse mixed stand of hardwood, aspen, and pine. Understory is
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	Isushed full of mixed regen of all species ranging from seedlings to well established saplings and poles. Leave another rotation to allow saplings
	White Pine	10		11	99	Re	d Pine	Low	Variable	Variable	to become better established. Consider management next YOE to
	Quaking Aspen	7	Sapling	5		Wh	ite Pine	Low	< 5 feet	< 5 feet	release advanced regen and take some dominant canopy out.
	Red Oak	18		12	99	Wh	ite Pine	Low	Variable	Variable	
	Red Maple	2	Sapling	7		Red	d Maple	Medium	< 5 feet	< 5 feet	
	Bigtooth Aspen	30	Sapling	5	32	Red	d Maple	High	Variable	Variable	
	Red Pine	33		12	99	Re	ed Oak	Medium	< 5 feet	< 5 feet	
						Re	ed Oak	Low	Variable	Variable	
23	4130	- Aspen		Sapling	g Well	16.4	5	Immature	N/A		Aspen sapling stand with mainly bigtooth. A few retention patches of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	mature oak within.
	White Pine	3	Sapling	7		Wh	ite Pine	Low	Variable	Variable	
	Red Maple	7	Log	1		Re	d Pine	Low	Variable	Variable	
	Bigtooth Aspen	68	Log	1	5						_
	Red Pine	2		10							
	Red Oak	5	Log	1							
	Quaking Aspen	15	Log	1	5						
24	4123 -	Red Oak	;	Sawtimb	er Well	25.8	99	81-110	N/A		Scattered mature oak and pine mix with areas dense to aspen poles.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	opy Species	Density	Avg. Height	Size	Understory is abundant with healthy oak pine and hardwood ranging from seedlings to well established saplings. Very dense red pine
	White Pine	5		12	99		ng Aspen	Low	Variable	Variable	saplings in the south half. Most mature pine is in the north half.
	Quaking Aspen	10	Sapling	5	32	Wh	ite Pine	Medium	Variable	Variable	
	Red Oak	60		13	99	Wh	ite Pine	Trace	Variable	Variable	
	Red Pine	7		12	99	Re	ed Oak	Low	Variable	Variable	
	Red Maple	3		8		Red	d Maple	Medium	Variable	Variable	
	Bigtooth Aspen	15	Sapling	6	32	Bigto	oth Aspen	Low	Variable	Variable	
						Re	d Pine	Medium	Variable	Variable	1

Report 7 – Stands

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Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
25	42110 - Pla	nted Red P	line	Poletimb	er Well	59.0	62	141-170	N/A		Thinned in 2020. Red pine, large pole to small sawlog sized stand.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stocking ranges from very dense to lighter in areas across the stand. Average of 150 BA across entire stand ranging from 80 BA to 200 BA.
	Red Oak	2		12		Re	d Maple	Medium	Variable	Variable	Oak and red maple saplings are dense in certain areas within the stand
	White Pine	3		12		Quak	king Aspen	Low	Variable	Variable	160 150 200 190 80 120 150 150 160 Average 150 BA.
	Northern Pin Oak	1		10		Northe	ern Pin Oak	Low	Variable	Variable	
	Red Pine	94		9	62	Re	ed Oak	Medium	Variable	Variable	
						Whit	te Spruce	Low	Variable	Variable	
26	4130	- Aspen		Poletimb	er Well	29.0	48	111-140	N/A		Nice stand of quaking aspen poles. Averages large pole to small sawle
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	sized trees although some areas average a slightly smaller diameter. Large pine mixed in patches and scattered across the area. Dense ha
	Paper Birch	1	Seedling	7		Wł	nite Pine	Low	Variable	Variable	understory in areas.
	Red Pine	4		14		Blac	ck Cherry	Low	Variable	Variable	
	Quaking Aspen	88		9	48	Whit	te Spruce	Low	Variable	Variable	
	White Spruce	1		11		Northe	ern Pin Oak	Low	Variable	Variable	
	White Pine	5		15		Re	ed Pine	Low	Variable	Variable	
	Black Cherry	1	Sapling	7				I	I		-
27	4136 - Asper	n, Mixed Co	nifer	Sapling	Well	23.7	24	1-50	N/A		Patches of declining fir with aspen and mixed hardwood saplings filling
	Canopy Species	% Cover	Size Class	DBH	Age						in. Any salvage of declining fir will damage better regen on site. Unmanaged patch in the far NE corner should be included with future
	White Pine	5		10							management.
	Balsam Fir	15	Sapling	7	74						Aspen was cut out and other species retained before state acquired
	Red Maple	20		8	74						parcel.
	Quaking Aspen	60	Log	2	24						
28	4130	- Aspen		Sapling	Well	15.6	6	1-50	N/A	4	Aspen sapling stand with large seed tree pine left. Some small patche
	Canopy Species	% Cover	Size Class	DBH	Age						are more sparse but overall fully stocked and should fill in with time.
	Red Maple	5	Log	1							
	Quaking Aspen	85	Log	1	6						
	Red Pine	3		14	99						
	White Pine	7		14	99						
29	4130	- Aspen		Sapling	Well	12.1	6	Immature	N/A		Dense aspen saplings with some scattered mature pine. Pine is mainly
	Canopy Species	% Cover	Size Class	DBH	Age						found in the north half.
	Red Maple	7	Log	1							
	Quaking Aspen	87	Log	1	6						
	Red Pine	1		20							
	White Pine	5		10							

Stand

30

31

32

Report 7 – Stands

Compartment: 173

	Grysta	i raiis iwiy	μ. Οτητ								Year of Entry: 2027
nc	Level 4 Co	ver Type		Size De	ensity	Acres	Stand Age B	A Range	Managed S	te	General Comments
)	42110 - Plan	ited Red P	line	Sawtimb	oer Well	38.1	61	81-110	N/A		Thinned in 2020. Red pine stand with small saw log to large pole sized
	Canopy Species	% Cover	Size Class	5 DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	trees. Scattered patches have denser stocking but overall the crowns have room to grow across the stand yet.
	Red Pine	99		12	61	Whit	e Spruce	Low	5 - 10 feet	5 - 10 feet	
	White Pine	1		25		Wh	nite Pine	Low	5 - 10 feet	5 - 10 feet	
						Blac	k Cherry	Low	Variable	Variable	
	4130 -	Aspen		Saplin	g Well	27.1	4 l	mmature	N/A		Cut in 2021. Dense aspen saplings, mainly quaking, transitioning to
	Canopy Species	% Cover	Size Class	DBH	I Age						more bigtooth with higher elevation.
	Quaking Aspen	50	Log	1	4						
	White Pine	2	Seedling	8							
	Red Oak	5	Log	1							
	Red Pine	3		14							
	Red Maple	5	Log	1							
	Bigtooth Aspen	35	Log	1	4						
2	4130 -	Aspen		Poletimb	ber Well	6.9	48	111-140	N/A		Nice stand of quaking aspen poles. Averages large pole to small sawlog
	Canopy Species	% Cover	Size Class	5 DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	sized trees although some areas average a slightly smaller diameter. Large pine mixed in patches and scattered across the area. Dense haze
	Quaking Aspen	68		9	48	Whit	e Spruce	Low	Variable	Variable	understory in areas.
	White Pine	5		15		Northe	ern Pin Oak	Low	Variable	Variable	
	Black Cherry	1	Sapling	7		Re	ed Pine	Low	Variable	Variable	
	Red Oak	2		13		Wh	nite Pine	Low	Variable	Variable	
	White Spruce	1		11		Blac	k Cherry	Low	Variable	Variable	
	Red Pine	4		14							
	Paper Birch	1	Seedling	7							
	Bigtooth Aspen	20	Seedling	8							

6118 - Lowland De	eciduous wi	ith Cedar	Poletimb	er Well	5.1 99	81-110	N/A	۱.	INCLUDES OUTLET FROM DEADMANS LAKE. Also includes buffer
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	– along Deadman's Lake, which is mostly upland.
Black Ash	35	Sapling	7	99	Black Ash	Medium	Variable	Variable	
Quaking Aspen	10		10		Black Spruce	Low	Variable	Variable	
hern White Cedar	20		9	99					_
Red Maple	25		10						
Paper Birch	10		10	99					
	Canopy Species Black Ash Quaking Aspen hern White Cedar Red Maple	Canopy Species% CoverBlack Ash35Quaking Aspen10hern White Cedar20Red Maple25	Canopy Species% CoverSize ClassBlack Ash35SaplingQuaking Aspen10hern White Cedar20Red Maple25	Canopy Species% CoverSize ClassDBHBlack Ash35Sapling7Quaking Aspen1010hern White Cedar209Red Maple2510	Canopy Species% CoverSize ClassDBHAgeBlack Ash35Sapling799Quaking Aspen101010hern White Cedar20999Red Maple251010	Canopy Species% CoverSize ClassDBHAgeBlack Ash35Sapling799Black AshQuaking Aspen1010Black Sprucehern White Cedar20999Red Maple2510	Canopy Species% CoverSize ClassDBHAgeSub-Canopy SpeciesDensityBlack Ash35Sapling799Black AshMediumQuaking Aspen101010Black SpruceLowhern White Cedar2099999Red Maple25101010	Canopy Species% CoverSize ClassDBHAgeSub-Canopy SpeciesDensityAvg. HeightBlack Ash35Sapling799Black AshMediumVariableQuaking Aspen101010Black SpruceLowVariablehern White Cedar2099999Fed Maple2510	Canopy Species% CoverSize ClassDBHAgeSub-Canopy SpeciesDensityAvg. HeightSizeBlack Ash35Sapling799Black AshMediumVariableVariableQuaking Aspen101010Black SpruceLowVariableVariablehern White Cedar20999Red Maple251010

Report 7 – Stands

DNR

Stanc	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed Site	e	General Comments
34	6117 - Lowland Con	Deciduous, iferous	Mixed S	Sawtimber	Medium	34.2	100	81-110	N/A		Large diameter declining trees. Steep long bank across most of the stand makes it inaccessible. Poorly drained ground with areas of cedar and black ash. A small 3 acre patch in the north containing sugar maple and white pine may be manageable in the future.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	and black ash. A small 3 acre patch in the north containing sugar map and white pine may be manageable in the future.
	Quaking Aspen	25		14	100	BI	ack Ash	Medium	Variable	Variable	and white pine may be manageable in the future.
	White Pine	5		20	100	Bla	ck Cherry	Medium	Variable	Variable	
	Black Ash	22		7		Blac	k Spruce	Low	Variable	Variable	
	White Spruce	3		10							<u>-</u>
No	orthern White Cedar	15		9	100						
	American Elm	5	Seedling	8							
	Balsam Fir	5	Sapling	7							
	Sugar Maple	5		9							
	Red Maple	10	Sapling	7							
35	4130	- Aspen		Sapling	y Well	16.9	13 I	mmature	N/A		Cut in 2012 dense mix of brush and saplings
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	60	Log	1	13	Qual	king Aspen	Medium	Variable	Variable	
	Balsam Poplar	10	Log	2		R	ed Pine	Low	Variable	Variable	
	White Pine	15		14		Ba	lsam Fir	Medium	Variable	Variable	
	Black Cherry	12	Log	1		W	nite Pine	Low	Variable	Variable	-
	Red Pine	3		18							_
36	4130	- Aspen		Sapling	y Well	49.1	6 I	mmature	N/A		Aspen saplings with some hardwood mixed in and residual scattered pine and oak.
	Canopy Species	% Cover	Size Class	DBH	I Age						pine and oak.
	Quaking Aspen	70	Log	1	6						
	White Pine	3		14							
	Black Cherry	4	Pole	3							
	Red Maple	5	Log	1							
	Bigtooth Aspen	8	Log	1							
	Red Oak	1		14							
	White Spruce	2	Log	2							
	Northern Pin Oak	2		12							
	Red Pine	5		14							
37		Red Oak		Sawtimb		28.9		111-140	N/A		Solid oak log stand. Large patch of spreading dead oak in the center $_{ m T}$ areas and some along the south edge. Section west of the powerline
	Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	ROW also contains multiple spreading dead oak patches. Private
	Quaking Aspen	3	Seedling	7		Re	d Maple	Medium	Variable	Variable	bordering the far west edge have new lines in for harvest and do have
	Red Oak	90		13	99						spreading dead oak patches within.
	Red Maple	2	Seedling	6	49						OPIC - FMD: ASPEN CUT OUT IN 1976 (1996)
	Paper Birch	2	Sapling	5							
	Bigtooth Aspen	3	Seedling	8							

Report 7 – Stands

stand	Level 4 C	over Type		Size De	ensity	Acres	Stand Age E	BA Range	Managed Sit	e	General Comments
38	4130	- Aspen	I	Poletimb	er Well	9.7	47	111-140	N/A		Good quality aspen stand. Some mature oak mixed in.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size]
	White Pine	2		14		Red	d Maple	Low	Variable	Variable	
	Black Cherry	2	Sapling	7		Bal	sam Fir	Low	Variable	Variable	
	Quaking Aspen	71	Seedling	8	47	Whit	e Spruce	Low	Variable	Variable	-
	Balsam Fir	1	Sapling	7		Wh	ite Pine	Trace	Variable	Variable	
	Red Oak	6		13		Blac	k Cherry	Low	Variable	Variable	
	White Spruce	1	Sapling	7							-
	Sugar Maple	1	Seedling	8							
	Paper Birch	2	Sapling	7							
	Bigtooth Aspen	14	Seedling	9							
39	4130	- Aspen		Sapling	g Well	11.3	5	Immature	N/A		Aspen saplings with residual oak.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Red Oak	10	Log	1		Wite	ch Hazel	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	5	Log	1							-
	Bigtooth Aspen	85	Log	1	5						
10	4131 - <i>F</i>	Aspen, Oak		Sapling	g Well	68.9	15	Immature	N/A		Cut in 2010. Stand ranges from dense aspen saplings to large areas
	Canopy Species	% Cover	Size Class	DBH	I Age						with a more diverse mix. Areas with oak and hardwood saplings are growing excellent and competing with the young aspen. A fair amount
	Quaking Aspen	15	Log	2	15						oak saplings are mixed in from both seed and stump sprouting. Long
	Balsam Poplar	2	Log	2							term retention patches left from the past harvest contain spreading dea
	Red Oak	25	Log	2	15						oak patches. Overall, this is a vigorous, diverse, young mixed stand.
	Red Maple	8	Log	2	15						
	Paper Birch	12	Log	2							
	Bigtooth Aspen	38	Log	3	15						
11	4130	- Aspen	I	Poletimb	er Well	3.9	48	111-140	N/A		Small elevation hump stand with excellent quality bigtooth aspen.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	10	Sapling	6	48	Red	d Maple	Medium	Variable	Variable	
	White Pine	3		14	99			, 1			<u> </u>
	Red Oak	4		13	99						
	Bigtooth Aspen	83	Sapling	6	48						
12	500	- Water		Unspe	cifed	2.1	0		No		Brule River

Report 7 – Stands

Stand	d Level 4 C	over Type		Size De	nsity	Acres Stand Age	BA Range	Managed Si	te	General Comments
43	4121 - C	ak, Aspen	S	awtimb	er Well	58.6 99	111-140	N/A		Rolling terrain across stand. Ranges from denser oak log patches to
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Specie	s Density	Avg. Height	Size	dense aspen pole areas. Aspen is heavy to bigtooth transitioning to quaking on the lower elevations. Aspen on higher elevations has large
	Quaking Aspen	10	Sapling	6	36	Red Maple	Low	Variable	Variable	diameter. Dead oak clumps scattered in the north and a larger vein
	Red Oak	60		13	99	Red Maple	Medium	Variable	Variable	containing numerous pockets zigzags across the SW area.
	Red Maple	5	Seedling	7		Bigtooth Aspen	Medium	Variable	Variable	-
	Bigtooth Aspen	25	Sapling	7	36	Bigtooth Aspen	Low	Variable	Variable	
44	6120 - Lov	wland Ceda	r P	oletimb	er Well	16.6 99	141-170	N/A		Very dense cedar across a majority of the stand. Patch in the far eas
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Specie	s Density	Avg. Height	Size	has some more mixed conifer and aspen mixed in. Low, flooded grou
	Quaking Aspen	4		10		Balsam Fir	Low	Variable	Variable	-
	White Pine	4		15		Tag Alder	Low	5 - 10 feet	5 - 10 feet	
	Black Spruce	5	Sapling	7			1	11		д
No	orthern White Cedar	87		9	99					
45	4130	- Aspen	Р	oletimb	er Well	19.9 48	111-140	N/A		Nice stand of quaking aspen poles. Averages large pole to small sav
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Specie	s Density	Avg. Height	Size	sized trees although some areas average a slightly smaller diameter Large pine mixed in patches and scattered across the area. Dense h
	Paper Birch	1	Seedling	7		White Spruce	Low	Variable	Variable	understory in areas.
	Red Pine	4		14		White Pine	Low	Variable	Variable	
	White Spruce	1		11		Black Cherry	Low	Variable	Variable	*
	Quaking Aspen	88		9	48	Northern Pin Oak	Low	Variable	Variable	
	White Pine	5		15		Red Pine	Low	Variable	Variable	
	Black Cherry	1	Sapling	7						-
		Asses	Р	oletimb	er Well	25.5 47	111-140	N/A		Good quality aspen stand. Some mature oak mixed in. A low swale r
46	4130	- Aspen							0:	$_{ m I}$ along the east edge and may have to be excluded from future
46	4130 Canopy Species	•	Size Class	DBH	Age	Sub-Canopy Specie	s Density	Avg. Height	Size	management
46		•	Size Class Seedling	DBH 8	47	Sub-Canopy Specie Red Maple	s Density Low	Avg. Height Variable	Variable	management.
46	Canopy Species	% Cover			-		-			management.
46	Canopy Species Quaking Aspen	% Cover	Seedling	8	-	Red Maple	Low	Variable	Variable	management.
46	Canopy Species Quaking Aspen Balsam Fir	% Cover 74 1	Seedling Sapling	8 7	-	Red Maple Balsam Fir	Low	Variable Variable	Variable Variable	management.
46	Canopy Species Quaking Aspen Balsam Fir Black Cherry	% Cover 74 1 3	Seedling Sapling Seedling	8 7 7	-	Red Maple Balsam Fir White Spruce	Low Low Low	Variable Variable Variable	Variable Variable Variable	management.
46	Canopy Species Quaking Aspen Balsam Fir Black Cherry Black Ash	% Cover 74 1 3 2	Seedling Sapling Seedling	8 7 7 7 7	-	Red Maple Balsam Fir White Spruce White Pine	Low Low Low Trace	Variable Variable Variable Variable	Variable Variable Variable Variable	management.
46	Canopy Species Quaking Aspen Balsam Fir Black Cherry Black Ash Red Oak	% Cover 74 1 3 2 7	Seedling Sapling Seedling Sapling	8 7 7 7 7 13	-	Red Maple Balsam Fir White Spruce White Pine	Low Low Low Trace	Variable Variable Variable Variable	Variable Variable Variable Variable	management.

% Cover

2

1

96

1

% Cover

1

65

7

3

1

10

1

12

% Cover

99

1

% Cover

20

10

35

35

42110 - Planted Red Pine

6128 - Lowland Coniferous. Mixed

Deciduous

Size Class

Size Class

Seedling

Seedling

Seedlina

Size Class

Size Class

Sapling

Size Densitv

Sawtimber Medium

6

16

13

16

14

8

15

14

9

9

6 9

Poletimber Well

8

12

Poletimber Well

DBH Age

99

12

14

8

9

DBH Age

62

Poletimber Well

DBH Age

DBH Age

99

44

Level 4 Cover Type

4123 - Red Oak

4130 - Aspen

Canopy Species

Paper Birch

Red Pine

Red Oak

White Pine

Canopy Species

White Pine

Quaking Aspen

Red Oak

Red Pine

Sugar Maple

Red Maple

Paper Birch

Bigtooth Aspen

Canopy Species

Red Pine

White Pine

Canopy Species

Quaking Aspen

White Pine

Black Spruce

Northern White Cedar

Stand

49

51

52

53

Report 7 – Stands

81-110

Low

Trace

Hiah

111-140

Density

Trace

Medium

Low

Trace

81-110

Density

Low

Full

Low

Density

Medium

Medium

81-110

51-80

Avg. Height

Variable

Variable

Variable

Variable

Avg. Height

Variable

10 - 20 feet

Variable

Avg. Height

5 - 10 feet

Variable

N/A

N/A

N/A

Acres Stand Age BA Range

99

Sub-Canopy Species

Quaking Aspen

Red Oak

Red Maple

Bigtooth Aspen

Sub-Canopy Species

White Spruce

Red Maple

Red Maple

Paper Birch

62

99

99

Sub-Canopy Species

Red Maple

Quaking Aspen

White Spruce

Sub-Canopy Species

Tag Alder

Balsam Fir

44

7.9

125.6

51.4

9.8

Compartment: 173 Year of Entry: 2027

General Comments Managed Site N/A Cut in 2009. Dense oak canopy with some open sapling sized patches of mixed aspen and maple. Numerous spreading dead oak patches Density Avg. Height Size across the stand south of Paint Pond Road, north of the road is healthy Variable Variable yet and has some larger canopy gaps. Adjacent private landowner along the south edge clearcut during peak oak wilt season up to the state land Variable Variable border. Significant new mortality and spread along the line is anticipated Variable Variable in the coming years. Oak stocking is dense enough for continuous Variable Variable Medium spread across the entire stand. N/A

Size

Variable

Variable

Variable

Variable

Size

Variable

10 - 20 feet

Variable

Size

5 - 10 feet

Variable

Nice aspen poles with good diameter. Stand is heavy to guaking aspen with some bigtooth clones mixed in, mainly on elevation rises. More diverse mix in the NW area with a bit more pine and hardwood mixed in. Unmanaged areas along the south due to slope and BMP's. Half of this stand will be held until next YOE to create aspen age class diversity in the area. Aspen is healthy and will hold up well. Edges of the adjacent red pine stand were avoided for the proposed harvest due to dense saplings along edges from 2021 harvest to allow the edge to become more established.

Cut in 2021. Large pole to small sawlog sized red pine stand. A lot of areas have a very light canopy of red pine and dense aspen sapling regeneration from past harvest. A lot of aspen saplings will have enough light to succeed into the future.

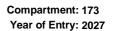
Spruce/fir is dead and/or declining. Wet flooded ground except a small patch along the W/NW.

Floodplain along the Brule River with saturated soil. Dead and dving

6117 - Lowland Deciduous, Mixed Poletimber Well 8.7 54 Coniferous

•	Con	iferous							
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size
	Black Ash	45	Sapling	7	99	Balsam Fir	Medium	Variable	Variable
	Red Maple	15		10		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
	Balsam Fir	10		8					
	Quaking Aspen	12		12	99				
	White Pine	3		14	99				
	White Spruce	5		9	99				
	Black Spruce	10	Sapling	7					

Report 7 – Stands



Stand	Level 4 Co	over Type		Size Density	Acres	Stand Age B	A Range	Managed Sit	te	General Comments
55	4130	- Aspen		Poletimber Well	81.3	36	81-110	N/A		Mixed aspen poles with some oak and pine mixed in. Exceptional
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	diameter on the bigtooth in the west half of the stand for its age. Diameter in the E/SE reflects more of what the age is. Unmanaged
	Quaking Aspen	46	Seedling	8 36	Re	d Maple	Medium	Variable	Variable	areas along the south due to slope and BMP's. Open area in SW corner
	Red Oak	7		16	Blac	ck Cherry	Low	Variable	Variable	that is growing in with mixed hardwood, conifer, and oak saplings/poles.
	White Pine	2		18	R	ed Oak	Trace	Variable	Variable	
	Black Cherry	1	Sapling	7	Whi	te Spruce	Low	Variable	Variable	
	Red Maple	3	Sapling	6						_
	Paper Birch	1	Seedling	8						
	Bigtooth Aspen	40	Seedling	9						
56	613 - Lowlan	d Mixed Fo	rest	Poletimber Well	10.2	80	51-80	N/A		Black ash/conifer floodplain flat along river. No access due to private property.
57	4123 -	Red Oak		Sawtimber Well	15.2	99	141-170	N/A		Cut in 2020. Cut all except oak and pine. Canopy is still very dense with
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	oak logs. Any aspen saplings will not succeed with current canopy conditions in most areas. Some sparser canopies but overall closed
	Red Oak	98		12 99	WI	nite Pine	Low	Variable	Variable	mature oak canopy. 180 140 140 180 Average of 160 BA in oak areas.
	Hemlock	1		12	Yel	low Birch	Trace	Variable	Variable	
	White Pine	1		22	Re	d Maple	Medium	Variable	Variable	
					Bigto	oth Aspen	Low	Variable	Variable	
59	4123 -	Red Oak		Sawtimber Well	18.5	99	111-140	N/A		Oak log stand with a few very small veins of aspen from past harvest.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Some spreading dead oak along the road running E/W in the north half and a large patches spreading in the far SE corner. Small hillside
	Quaking Aspen	3	Seedling	7	Re	d Maple	High	Variable	Variable	hemlock patch in the SW center area.
	Red Oak	89		13 99	Ba	lsam Fir	Low	Variable	Variable	
	Hemlock	2		14						[⊥] OPIC - FMD: ASPEN HARVESTED(1992)
	Paper Birch	1	Sapling	7						
	Bigtooth Aspen	5	Seedling	8 33						
61	122 - Road	d/Parking Lo	ot	Unspecifed	1.9	0		No		Stager Lake Road
62	4131 - A	spen, Oak		Poletimber Well	9.9	16	1-50	N/A		Cut in 2009. Dense mixed aspen saplings. Scattered mature oak across
	Canopy Species		Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	diverse mix across this stand.
	Bigtooth Aspen	33	Log	2 16	Re	d Maple	Medium	Variable	Variable	
	Quaking Aspen	30	Log	2 16	Bigto	oth Aspen	Medium	Variable	Variable	
	Red Oak	35		12 99	Qual	king Aspen	Medium	Variable	Variable	
	Red Pine	1		15						
	White Pine	1		17						

Report 7 – Stands

Compartment: 173

Year of Entry: 2027

DNR

Stand	Level 4 Co	over Type		Size De	ensity	Acres	Stand Age	BA Range	Managed Sit	te	General Comments
63	4199 - Other Mixe	d Upland D	eciduous	Sapling	g Well	9.2	12	Immature	N/A		Harvested 2013 due to Oak wilt. Mixed aspen and hardwood
	Canopy Species	% Cover	Size Class	DBH	I Age						regeneration. There is a good component of healthy oak sapling scattered in areas.
	Quaking Aspen	5	Log	2	12						
	Red Oak	35	Log	2	12						
	Red Maple	25	Log	1	12						
	Paper Birch	5	Log	2							
	Bigtooth Aspen	30	Log	2	12						
65	4139 - Aspen, I	Mixed Deci	duous	Sapling N	Medium	17.8	5	1-50	N/A		Aspen saplings with mature oak and pine scattered across the stand.
	Canopy Species	% Cover	Size Class	DBH	I Age						Saplings range from fully stocked to areas with more open patches. Any open patches should fill in more with time.
	Red Oak	13		12	99						
	Quaking Aspen	10	Log	1							
	White Pine	10		9							
I	Northern Pin Oak	3		11							
I	Northern Pin Oak	5	Log	1							
	Red Pine	4		14							
	Red Maple	15	Log	1							
	Bigtooth Aspen	40	Log	1	5						
67	6129 - Mixed Conife			Sawtimb			99	51-80	N/A		Low flooded mix of dead and/or declining trees. Large healthy pine
	Canopy Species		Size Class		I Age		nopy Specie	-	Avg. Height	Size	-
	Red Maple	5	• "	8		Та	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	10	Sapling	7	99						
No	orthern White Cedar	30		12	99						
	Balsam Fir	5	Sapling	6							
	Balsam Poplar	5		10							
	White Pine	45		16	99						
68	413 -	Aspen		Poletimb	er Well	14.6	69	81-110	N/A		Aspen with some conifer mixed in. No access due to private.
69	42110 - Plar	nted Red Pi	ne	Poletimb	er Well	2.0	42	171-200	N/A		Dense red pine poles.
	Canopy Species Red Pine	% Cover 100	Size Class Seedling	DBH 7	Age 42						OPIC - FMD: Red pine plantation, part of old ELF study area. (2006)
70	6120 - Lov	wland Ceda	r	Poletimb	or Wall	4.3	89	111-140	N/A		Dense cedar patch. No access due to private.

Report 7 – Stands

Compartment: 173

Year of Entry: 2027

Stand	Level 4 C	over Type		Size De	ensity	Acres Sta	and Age B	A Range	Managed S	Site	General Comments
71	42210 - Na	ural Red Pi	ne	Sawtimt	oer Well	25.0	99	81-110	N//	4	Thinned in 2020. Most merchantable species were removed. Scattered
	Canopy Species	% Cover	Size Class	DBł	I Age	Sub-Canop	y Species	Density	Avg. Height	Size	mature oak across the stand. Some mixed understory saplings and areas with good oak seedlings.
	Red Maple	5	Sapling	6		Red F	Pine	Low	Variable	Variable	
	Red Pine	78		12	99	White	Pine	Low	Variable	Variable	
	Red Oak	7		12		Red (Jak	Medium	< 5 feet	< 5 feet	
	White Pine	10		12		Red (Dak	Medium	Variable	Variable	
						Red M	laple	Medium	Variable	Variable	
						Bigtooth	Aspen	Low	Variable	Variable	
72	4130	- Aspen	I	Poletim	ber Well	15.4	47	111-140	N/#	Ą	Nice aspen pole stand with pure quaking aspen. Some pine and oak
	Canopy Species	% Cover	Size Class	DBł	I Age	Sub-Canop	y Species	Density	Avg. Height	Size	– scattered within. Understory is fairly open.
	Quaking Aspen	90	Seedling	8	47	Balsar	n Fir	Low	Variable	Variable	
	White Pine	5		14		White S	Spruce	Low	Variable	Variable	
	Red Oak	2		11	99	White	Pine	Low	Variable	Variable	
	Red Pine	2		11		Black C	Cherry	Low	Variable	Variable	
	Red Maple	1	Sapling	6	47						-
73	4123 -	Red Oak	Sa	awtimbe	r Mediun	n 7.1	99	81-110	N/#	Ą	Cut in 2009. Dense oak canopy with some open sapling sized patches
	Canopy Species	% Cover	Size Class	DBł	l Age	Sub-Canop	y Species	Density	Avg. Height	Size	of mixed aspen and maple. Numerous spreading dead oak patches across the stand south of Paint Pond Road, north of the road is healthy
	Red Oak	96		13	99	Red M	laple	High	Variable	Variable	yet and has some larger canopy gaps. Adjacent private landowner alo
	Red Pine	1		16		Bigtooth	Aspen	Medium	Variable	Variable	the south edge clearcut during peak oak wilt season up to the state lar
	White Pine	1		16		Red (Dak	Trace	Variable	Variable	border. Significant new mortality and spread along the line is anticipate in the coming years. Oak stocking is dense enough for continuous
	Paper Birch	2	Sapling	6		Quaking	Aspen	Low	Variable	Variable	spread across the entire stand.
75	4123 -	Red Oak	;	Sawtimt	oer Well	32.9	99	111-140	N//	Ą	Cut in 2009. This stand was delineated out from the adjacent stand du
	Canopy Species	% Cover	Size Class	DBł	I Age	Sub-Canop	y Species	Density	Avg. Height	Size	to the closed, dense oak canopy. Spreading dead oak patches across the entire stand, most abundant in the south half. Adjacent private
	Red Pine	2		15		Quaking	Aspen	Low	Variable	Variable	landowner along the east edge clearcut during peak oak wilt season up
	White Pine	2		17		Red M	laple	Medium	Variable	Variable	to the state land border. Significant new mortality and spread along the
	Red Oak	96		12	99	Bigtooth	Aspen	Medium	Variable	Variable	line is anticipated in the coming years. Oak stocking is dense enough for continuous spread across the entire stand.
78	4123 -	Red Oak	;	Sawtimt	oer Well	13.2	99	141-170	N/#	4	Dense oak log stand. Majority of understory is very dense to red maple
	Canopy Species	% Cover	Size Class	DBł	I Age	Sub-Canop	y Species	Density	Avg. Height	Size	$\overline{}$ saplings. Dead oak patches in the center and north half showing spread
	Red Maple	2	Sapling	7		Red M	laple	High	Variable	Variable	
	Bigtooth Aspen	3	Sapling	6	36	Bigtooth	Aspen	Low	Variable	Variable	

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Report 7 – Stands



Stand	Level 4 Co	over Type	er Type Size Density Acres Stand Age BA Range Managed Site			te	General Comments					
80	6120 - Lowland Cedar		r	Poletimber V	er Well	r Well 27.8	27.8	100	141-170	N/A		Dense cedar stand with some lowland species mixed in. Flooded grou
Canopy Species % C		% Cover	Size Class	DBH Ag	je	Sub-Ca	nopy Species	Density	Avg. Height	Size	with multiple trout stream segments interior.	
	Balsam Poplar	7		8			Alder	Medium	5 - 10 feet	5 - 10 feet		
	Balsam Fir	5	Sapling	7		Ba	lsam Fir	Medium	Variable	Variable		
	Tamarack	5		10								
	Black Spruce	8	Seedling	8								
No	orthern White Cedar	75		9 10	00							
81	4123 -	Red Oak		Sapling We	əll	4.6	16	Immature	N/A		Dense stocking of red maple and red oak saplings, mainly stump	
	Canopy Species	% Cover	Size Class	DBH Ag	je						sprouts.	
	Red Oak	60	Log	2 10	6							
	Red Maple	40	Log	2 10	6							
82	122 - Road	d/Parking Lo	ot	Unspecife	d	28.2	0		No		US 2 and cleared ROW.	
83	6115 - Lo	owland Ash		Sawtimber V	Vell	8.8	99	111-140	N/A		Lowland black ash flat along river transitioning up to aspen edge.	
	Canopy Species	% Cover	Size Class	DBH Ag	je							
	Red Maple	5		10								
	Balsam Fir	4		8								
	White Pine	5		16								
	Quaking Aspen	18		12 99								
	Black Ash	65	Sapling	7 99	9							
	Black Spruce	3	Seedling	8								
85	35 4130 - Aspen			Poletimber V	Vell	10.2	51	111-140	N/A		Aspen pole stand. A low swale and trout stream cuts across the west	
	Canopy Species	% Cover	Size Class	DBH Ag	je	Sub-Ca	nopy Species	Density	Avg. Height	Size	edge. The trout stream loops around the E/S/W perimeter of the stan	
	Quaking Aspen	80	Seedling	8 5	1	Ba	lsam Fir	Low	Variable	Variable		
	Black Ash	5	Sapling	7							_	
	Red Oak	2		12								
	White Spruce	2	Seedling	7								
	Red Maple	3	Sapling	6								
	Paper Birch	2	Seedling	8								
	White Pine	2		9								
	Black Cherry	2	Sapling	6								
	Balsam Fir	2	Sapling	7								
86	110 - Low li	ntensity Urb	an	Unspecife	d	1.9			No		STAGER LAKE ROAD	

Report 7 – Stands

Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments		
88	4130 - Aspen			Sapling	apling Well	10.9	10	Immature	N/A		Aspen sapling stand.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size			
	Quaking Aspen	70	Log	2	10	Ba	lsam Fir	Medium	Variable	Variable	-		
	Balsam Fir	5	Pole	2							-		
	Balsam Poplar	20	Log	2	10								
	White Pine	5		14									
89	4123 -	Red Oak		Sawtimb	er Well	20.6	99	141-170	N/A	١	Dense canopy heavy to oak. Similar to adjacent oak stands but contains		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	A heavier component of large mature aspen, mainly in the south half. Dead oak patches scattered across entire stand are showing signs of		
	Red Oak	72		13	99	Re	d Maple	Low	Variable	Variable	aggressive, continued spread.		
	Red Maple	3		8		Re	d Maple	Low	Variable	Variable			
	Bigtooth Aspen	25		11	99					1	1		
92 4125 - Black, N. Pin Oak Poletimber Well 7.7 99 111-140 N/A											Mixed oak stand that is heavy to northern pin oak. Red oak and pine a		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	healthy but norhtern pin oak is older and showing some decline. A fair amount of oak seedlings/saplings are found in the understory.		
	Red Oak	15		12	99		d Maple	Medium	Variable	Variable	arround in the understory.		
	White Pine	7		10	99	Re	d Maple	High	Variable	Variable			
	Northern Pin Oak	75		9	99	WI	nite Pine	Medium	< 5 feet	< 5 feet			
	Red Pine	3		12		R	ed Oak	Low	< 5 feet	< 5 feet			
93	6139 - Mixed	Lowland Fo	prest	Sapling N	/ledium	3.7	4	Immature	N/A	N N	Cut in 2021. Patchy aspen and mixed hardwood regeneration present.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	There is a good amount of shorth black spruce regeneration. Thick alder in a lot of areas. This stand is not fully stock but more time should allow		
	Black Spruce	50	Log	1	4	Та	ig Alder	Medium	5 - 10 feet	5 - 10 feet	conifers to become established.		
	Black Cherry	10	Log	1	4	Blac	k Spruce	Medium	< 5 feet	< 5 feet			
	Quaking Aspen	40	Log	1	4						-		
94	4123 -	Red Oak		Sawtimb	er Well	12.1	99	111-140	N/A	١	Mainly denser red oak canopy. Areas of younger dense aspen poles in		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the center. Spreading dead oak patches in the NW corner and alo east edge.		
	Quaking Aspen	5	Sapling	6	34	Re	d Maple	High	Variable	Variable			
	Red Pine	1		22		Bigto	oth Aspen	Low	Variable	Variable	*		
	Red Oak	68		14	99						-		
	White Pine	1		22									
	Red Maple	3	Sapling	5									
	Paper Birch	2	Sapling	5									
	Bigtooth Aspen	20	Seedling	7	34								

Report 7 – Stands

DNR MICHIGAN

Stand Level 4 Cover Typ		Level 4 Cover Type		Size De	nsity	Acres	Stand Age B	A Range	Managed Si	ite	General Comments
97	4130 - Aspen			Poletimber Well		Vell 4.8	46	111-140	N/A		Good quality aspen with some oak mixed in. Stand was left from past
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	harvest due to an old trespass case.
Q	Quaking Aspen	14	Seedling	8		W	hite Pine	Low	Variable	Variable	
	Red Oak	3		13	99	R	ed Oak	Low	< 5 feet	< 5 feet	
V	White Spruce	1		12		Ba	alsam Fir	Low	Variable	Variable	
	Red Maple	2	Seedling	7							_
В	Bigtooth Aspen	80	Seedling	8	46						
100	100 4130 - Aspen		4130 - Aspen Poletimber Wel		er Well	8.5	36	111-140	N/A		Very good quality aspen pole stand. Heavy to bigtooth with elevation
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	hump across most of the stand. A few scattered mature oak and pine scattered across the stand.
	White Pine	4		13	99	W	hite Pine	Trace	Variable	Variable	
	Red Pine	3		13	99	Re	ed Maple	Medium	Variable	Variable	
	Red Oak	8		14	99	Bigto	ooth Aspen	Medium	>20 feet	>20 feet	_
	Red Maple	2	Sapling	5				·			_
В	Bigtooth Aspen	83	Sapling	6	36						
101	500 -	- Water		Unspe	cifed	9.9	0		No		Brule River
106	500 -	- Water		Unspe	cifed	8.0	0		No		Brule River
400	110 - Low li	ntensity Urb	an	Unspe	cifed	3.6			No		Power line
401	110 - Low lı	ntensity Urb	an	Unspe	cifed	7.5			No		Power line
402	110 - Low Iı	ntensity Urb	an	Unspe	cifed	12.8			No		Power line
404	110 - Low li	ntensity Urb	an	Unspe	cifed	5.6			No		Power line ROW.